

TV

2024 - 2025

>

www.vestelinternational.com

VESTEL



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COMPANY PROFILE

VESTEL CITY, WHICH COMPRISES NINE PLANTS LOCATED IN MANISA, IS AMONGST THE BIGGEST INDUSTRIAL COMPLEXES OF THE WORLD.

>



20.000
Employees

1.300.000 m²
Closed Production Area

Export Leader of Turkey with
\$2,3 Billion

30 Million
Device Production
Capacity

\$3,5 Billion
Turnover

Vestel City, which comprises nine plants located in Manisa, is amongst the biggest industrial complexes in the world.

Comprised of 25 companies, Vestel Group is a multi-industry manufacturer that operates in consumer electronics, major domestic appliances, professional displays, automotive and battery solutions, and EV Chargers.

Testimony to the global importance of Zorlu Holding across multiple technology sectors, Vestel is not only thriving at home in Türkiye, but also through a further 11 subsidiaries that have been set up in various other parts of the world. Thanks to its renowned manufacturing and R&D complex, Vestel exports to more than 160 countries and keeps its position as a global player.

The company is recognized for its cutting-edge designs, high product quality, large production capacity, and superior market share growth.

Total productive maintenance and the Six Sigma approach implemented throughout the manufacturing process improve efficiency and productivity in all areas, making Vestel a world-class manufacturer.

All Vestel products are tested in-house in the company's certified quality labs to ensure electronic and mechanical sustainability.

Leading the European market in digital products, Vestel has established agreements with the major digital television operators in Europe to produce digital television and set-top boxes.

Vestel places the utmost importance to product design and development. The company invests in new technological developments continuously to lead the electronics and major domestic appliances markets.

R&D facilities located in Türkiye, UK, and China employ the highest caliber engineers to develop hardware and software solutions that provide clients with world-class quality products.

Vestel Mobility factory located in the free trade zone of Izmir, has a special R&D team for manufacturing and testing batteries and EV Chargers, which is also exporting these goods to Europe with zero customs tax.

Vestel has proven its success in product design by receiving the most prestigious design Awards every year from well-known industrial design organizations for a variety of products.

Vestel Trade, the company responsible for the marketing and sales of Vestel products overseas, exports 75% percent of its production under leading Japanese and European brands to 160+ countries.

Vestel appeals to different consumer tastes in 160+ countries with its wide range of products, which reflects its competencies in technological development, design and product customization. Accounting for 90% of Türkiye's TV exports and 35% of the nation's major domestic appliances exports, Vestel has been an unwavering export leader in the Turkish electronics sector for the past 25 years.

For a sustainable future and transition to an economy based on net zero emissions, Vestel triggers transformation across the entire value chain. Leveraging the power of Industry 4.0 and automation to support the reduction of energy consumption through operational improvements and innovative products, Vestel implements circular models to improve resource efficiency in production and reduce our environmental impact from products.

Vestel aims to reach net zero emissions by 2050, first in its own operations and then in its entire value chain. Vestel is working on a decarbonization plan as part of its commitment to set Science Based Targets (SBTi).



GLOBAL OPERATIONS

MANUFACTURING & ASSEMBLY PLANTS

>

TV, Set-top Boxes

Manisa, Turkey

Professional Displays, Tablet PC, LED lighting

Manisa, Turkey

Refrigerator, Washing Machine, Dishwasher, Tumble Dryer, Cooking Appliances, Air Conditioner, Water Heater

Manisa, Turkey

R&D CENTERS

Manisa, Turkey

Istanbul, Turkey

Bristol, United Kingdom

Shanghai, China

MARKETING & SALES COMPANIES

Vestel Trade, Turkey

Vestel France, France

Vestel Germany, Germany

Vestel UK, United Kingdom

Vestel Iberia, Spain

Vestel Poland, Poland

Vestel Benelux, Netherlands

Vestel CIS Ltd, Russia

Vestel Electronica, Romania

Vestel Central Asia, Kazakhstan

Vestel Electronics Gulf, Dubai

Design and Technology

Modern TV design is changing day by day with the improvements in technology. It is also subject to change in Vestel as a leading technology investor and design manufacturer. Nowadays, TVs become less visible, ultra-thin elegant designs are more integrated onto the surrounding surfaces like walls, doorways, anywhere. These designs come with extraordinary technology of high quality resolution in well-sized TVs. The design of TVs will go beyond the standards with simple beautiful cabinet and shelving, we will see the space softened by few accessories around its astonishing pictures.





Design for Sustainability

Commitment to Environment

We wish to draw attention to the essence of the product, demonstrating commitment to environmental protection through our products

Increasing Importance of Recyclable Packaging

The shift towards recyclable packaging is becoming increasingly vital in our global effort to reduce waste and protect the environment.



Enrichment of Solutions in 2024

In 2024, wider range of products with the below eco-friendly solutions are targeted to be supplied

Sustainable Design Solutions

There are four main sustainable design solutions we product development stages through sustainable design:

1. Non-EPS Packaging
2. Non-Plastizode Bag (HDPE)
3. Recycled& Recycable Carton Box
4. Replacing Plastic Materials in Artwork Bag



FSC certified carton boxes are going to be introduced

Recycled & Recyclable Carton Box

FSC certification ensures that products come from responsibly managed forests that provide environmental, social and economic benefits. FSC Logo cardboard is available in selected sizes & cabinets.



Non-Plastizode Bag (HDPE)

Even though it has some advantages plastizode foam is a versatile man - made polyethylene foam which is produced as a by product of oil. While packaging of our stands we try to reduce consumption of Plastizodes.



Non-EPS Packaging

Polystyrene a packaging foam directly harms the environment, pilling up in landfills, contaminating rivers and oceans cardboard can be used instead of EPS in packaging.

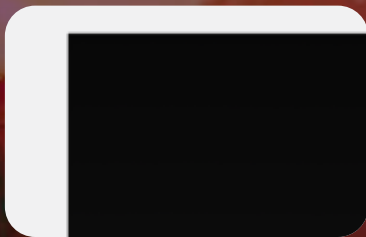
Replacing Plastic Materials in Artwork Bag

Nylon is made from a nonrenewable resources and it is not biodegradable, it will end up sitting in a landfill at the end of its product life cycle. We aim to use paper envelope for packaging of artworks.

BMS Technology And Led Designs

Vestel uses own in-house design process in order to build huge amount of various TV models in different sizes and cosmetics. This system is called BMS (Built-in Module System) technology that allows supply of the cell only and rest of the materials including light filters, light-guide plates and backlight systems are separately built by Vestel. Therefore, BMS technology is the perfect supporter of flexibility in production and flexibility in defining various combinations of

TV product in terms of size and cosmetic design. Thanks to BMS technology, Vestel has become expert in meeting various customer demands that makes Vestel company pioneer OEM/ODM TV manufacturer globally.



Frameless

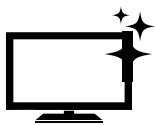
New generation frameless family offers you completely new level of elegance. Vestel offers you less than 2mm bezel thickness with this new generation DLED technology.

Discover the new form of television innovation with Vestel's revolutionary Frameless TV Design! Embrace an unparalleled viewing experience as we bid farewell to thick bezels, welcoming an edge-to-edge display that seamlessly immerses you into each captivating scene. Uncompromising in its minimalist allure and energy efficiency, this design not only meets market demands but also enhances your home décor while optimizing precious viewing space. Embrace sophistication and redefine your entertainment realm with the epitome of sleek, Frameless TV Design!

New Display Technologies

OLED

Discover Vestel, discover sensational TV viewing. Introducing more of the latest TV technologies to more homes, Vestel has developed its own OLED TV. Promising to deliver a more powerful, compelling and deeply immersive viewing experience, the TV displays authentic blacks for incredible on-screen effect. Ensuring unprecedented colour precision and picture accuracy, this model sets the deepest blacks against the purest shades and hues to create spectacular colour contrasts.



Clearer pictures and brighter images



Feel immersive heart
pounding audio
delivered with OLED TV

The Most Realistic Screen Experience

OLED delivers natural visual experience just
as they are with 100% live pixel control.



True black, pure white and 100%
high color fidelity



100 - 120 hz screen panel



Faster response time



All around view



Thin and elegant frame

New Display Technologies

MiniLED

Introducing MiniLED: Unleash the Brilliance of Every Pixel!

Experience visuals like never before with our cutting-edge MiniLED technology. Revolutionizing display technology, MiniLED brings a new era of stunning visual quality, captivating your senses and immersing you in a world of vibrant colors and incredible clarity.



Prepare to be amazed as MiniLED takes your viewing experience to new heights. With its ultra-small LED components, our displays achieve unprecedented precision and control over lighting. Each pixel comes alive, producing intense brightness and true-to-life contrasts that make images pop with remarkable detail.

Immerse yourself in the magic of MiniLED's local dimming technology.

With an abundance of dimming zones meticulously placed behind the scenes, the display adapts dynamically to your content, enhancing the sharpness of details and eliminating any unwanted glare. Be it a dark, atmospheric movie scene or a vibrant, action-packed game, MiniLED ensures every moment is rendered with astonishing precision.

New Display Technologies

QLED

More Real, More Vibrant: Next-Gen QLED Televisions!

Experience life in its full vibrancy and elevate your visual experience to the next level! With our brand new generation of televisions equipped with cutting-edge QLED technology, you'll live every moment more realistically and vividly.



High color gamut with Quantum Dot

More realistic colors and performance closer to the limits of human vision

Very Sharp and Narrow Emission Peak

More Accurate Colors

More Vivid Hues

Adding QD-Film in the Backlight

Achievement of $\geq 90\%$ Color Gamut (DCI-P3)

CERTIFICATIONS



**Flicker-free &
Low Blue Light Display (OLED)**
50% Below Exempt Blue Light Risk Group Limit





Gaming

Experience Gaming at its Smoothest with VRR Technology!

Fluidity and Responsiveness Redefined: VRR takes your gaming experience to a whole new level of fluidity and responsiveness. By dynamically adjusting the display's refresh

rate to match the game's frame rate, VRR eliminates the need for traditional fixed refresh rates, ensuring that the visuals on your screen are always in perfect harmony with your inputs. Whether you're engaged in fast-paced first-person shooters or exploring vast open-world environments, VRR technology keeps the gameplay buttery smooth, allowing you to react quickly and gain a competitive edge.

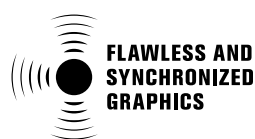


MAXIMIZED GAMING PERFORMANCE

HDMI® 2.1
HIGH-DEFINITION MULTIMEDIA INTERFACE

ALLM

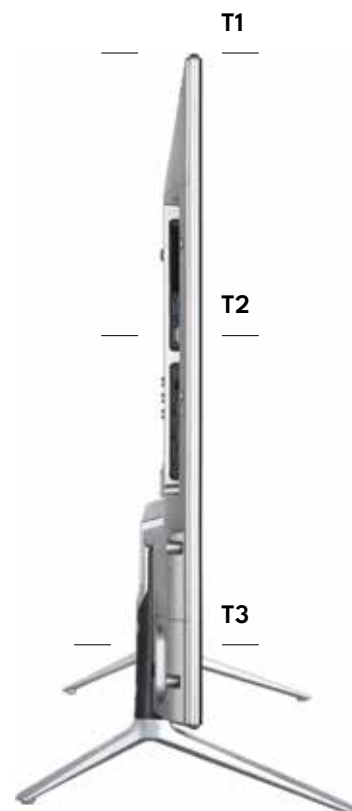
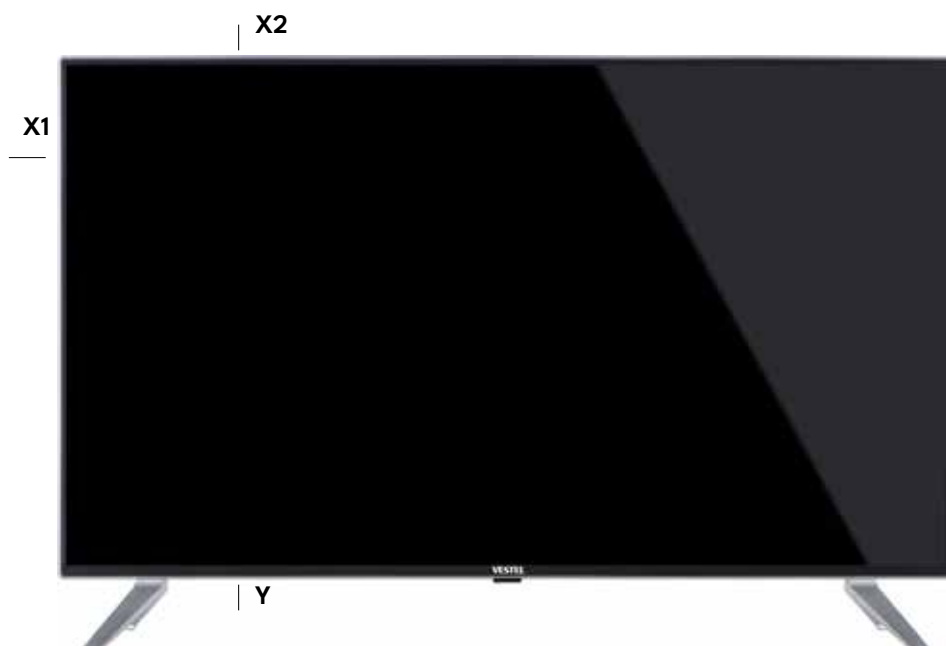
Auto Low Latency Mode



8x ***Faster
Response
Time***

4K gaming up to
8x Faster Response Time

CABINET DIMENSIONS



		SIZE	X1	X2	Y	D1	D2	D3
OLED	BC860	48	2,7	2,7	2,7	4	N/A	46,25
		55	2,7	2,7	2,7	4	N/A	46,25
		65	2,7	2,7	2,7	4	N/A	46,25
		55	5,1	5,1	15,7	30,1	47,5	75
		65	5,1	5,1	15,7	30,1	47,5	75
		43	1,2	1,2	18,9	8,15	30,15	65,1
		50	1,4	1,4	18,9	8,35	33,3	65,5
MINILED	BC820	55	1,8	1,8	18,9	8,75	33,75	65,9
		65	1,8	1,8	18,9	8,75	33,75	65,9
		32	1,85	1,85	19,2	10,3	32,3	66
		43	2,5	2,5	14,9	10,3	32,3	66,0
		50	2,5	2,5	14,9	10,3	32,3	66,0
		55	2,5	2,5	14,8	10,5	32,5	66,2
DLED FRAMELESS	BC870	58	2,5	2,5	13,4	10,3	32,5	66,2
		65	2,5	2,5	17	10,3	40,5	72,2
		70	5,2	5,2	20,6	12,5	45,5	74
		32	5	5	23,4	12	50	78
DLED FRAMELESS	BC660	40	5,7	6,44	19,1	12	55	89
		43	5	5	18,5	12	55	89
DLED FRAMELESS	BC750	50	5	5	18,5	12	55	89
		55	5	5	18,5	12	55	89
		65	5	5	18,5	12	50	84
		75	5	5	18,5	10,6	52,6	82,2



UHD - 8 K
7680x4320



UHD - 4 K
3840x2160



1 0 8 0 P
1920x1080



7 2 0 P
1280x720



DVD
720x480

UHD TV

UHD, the abbreviation for 'Ultra High Definition', is the most popular issue in TV business worldwide. Basically, UHD TV provides resolution of 3840x2160 (4K:2K) which equals to 4 times resolution of Full HD TV by doubling the pixel count of the Full HD TV both horizontally and vertically.

Vestel UHD TV offers an extreme watching experience with sharper and more colorful pictures thanks to higher pixel count. You will catch every detail on every corner of the screen thanks to stunning image production. Moreover, you will feel like living in a colorful virtual world while watching a scene on your UHD screen. While watching your favorite movie, watching a

sports event or your favorite TV series delusive events are brought to your living room to fulfill your imaginations.

Thanks to its state of art industrial design and lifelike colorful image presentation, you will feel like that you are surrounded by paintings of famous artists in an art gallery while Vestel UHD TV is around.

Better Picture Quality

MEMC

Algorithm to overcome the motion blur effect. MEMC technology detects movement patterns of the objects and apply interpolation between pixels, providing much more smooth video experience.



HDR 10+

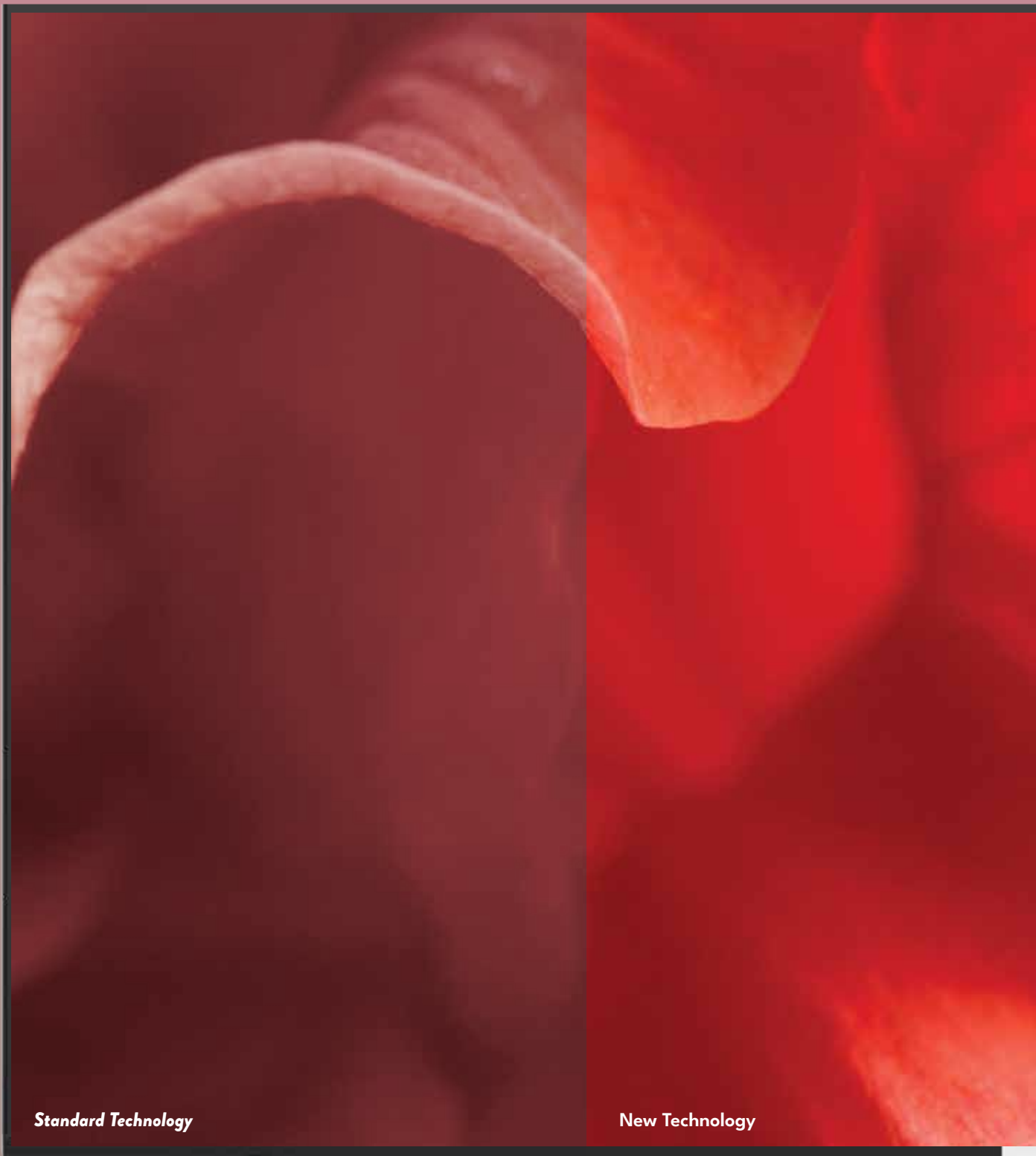
HDR10+ works differently than HDR10. It sends dynamic metadata, which allow TVs to set up colour and brightness levels frame-by-frame. This makes the picture look realistic. HDR10 aims to produce 1000 nits of peak brightness, whereas HDR 10+ supports up to 400 nits.

Standard Technology



HDR Technology





Standard Technology

New Technology

Micro Dimming

Algorithm for better contrast and vivid picture quality. This is provided by deep analysis of each pixels, realizing dark and bright regions and applying separate backlight.



Super Resolution

Algorithm to solve the artifacts of low resolution video upscaling.



Blue Stretch

Human eye perceives cooler whites as brighter white, Blue Stretch feature changes White balance of mid-high gray levels to cooler color temperature



De-Contour

De-contour reduces the contour effects which are especially seen in low bitrate contents or auto scaling services like Youtube, Netflix etc. Contour effects are mostly seen in flat areas like sky and de-contour recognizes these problematic flat areas and makes these areas smoother.

TV Line-up

In terms of design and technology, Vestel offers considerably wide lineup range in order to meet broad expectations of people from a TV. One of the most popular technologies, such as UHD TV arises with elegant OLED design at the top of this lineup as it reflects the strength and quality of Vestel TV lineup. Moreover, elegant slim models including ultra narrow bezel designs, quality metal applications or fashionable stand designs are all positioned in attractive lineup of Vestel. Flexibility, design capability and know-how of high technology allow Vestel to offer the most suitable product for your demand that fits your personal delight as well.





OLED

48" - 55" - 65"



xx860 Vestel OLED TV, with its high image and sound quality, is designed for customers who aspire to take their Television experience into a new level. This thin, minimalist and premium TV has an innovative and user friendly cable solution on its pedestal as a design element.

Vestel xx860 OLED TV is designed for customers who aspire to have high quality image and sound with minimalist design. The design itself has been manufactured with premium materials that brings forward its OLED Technology. Vestel xx860 OLED TV stands out with its metal pedestal design that highlights its sharp features as well as the front metal deco piece that preserves its holistic design. This front metal deco piece elegantly combines the two separate OLED screen and IRLED area, and allows them to be perceived as a continuation of each other. Its unique cable solution on the pedestal design

allows users to hide all cables at the back of the pedestal and maintain Vestel OLED TVs minimalistic and holistic design.

The design is unique in the market with its innovative cable solution and elegant design language.

- ✓ In order to achieve the minimalistic design approach, all mechanical parts and joints are designed to be assembled without undermining the holistic and aesthetic perception of the design.
- ✓ The product is designed to be perceived as a whole dark glass that has a thin, shiny belt which allows it to maintain its sculpture-like aesthetic during the "off" state.
- ✓ The product is aesthetic both from the front and back.
- ✓ All parts of the pedestal design joints come together with great precision, maintaining the product's integral design.

MiniLED

55" - 65"



Discover the Brilliance of MiniLED: Elevate Your Visual Experience to Unimaginable Heights! Our groundbreaking MiniLED technology revolutionizes display quality, delivering unrivaled precision and breathtaking visuals. With its ultra-small LEDs and advanced local dimming, MiniLED creates vibrant colors, deeper contrasts, and sharper details that immerse you in a world of unparalleled clarity. Every scene comes alive with lifelike brilliance, transporting you into the heart of the action. Upgrade to MiniLED and unlock a new realm of visual splendor, where every pixel shines with mesmerizing brilliance, and your favorite content is transformed into a breathtaking spectacle that will leave you awe-inspired.

Portable TV

Take your TV experience anywhere you desire!

Stylish design and different color options!

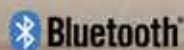
- Deep Navy Blue
- Solo White
- Spiced Orange
- Khaki Metal Green



Comes with a water and dust resistant bag option



Unique, user friendly bluetooth remote



Available in **Linux** and **Android** platforms.

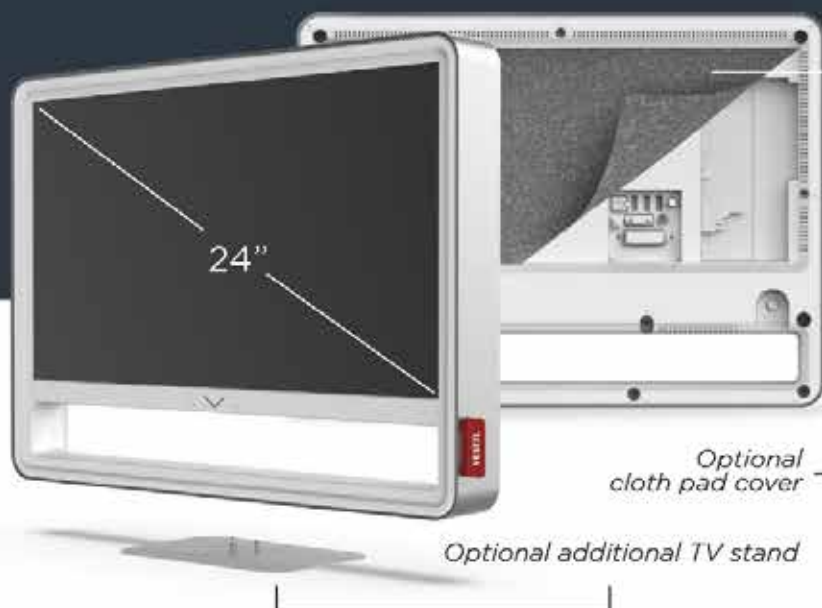
TV WITH ME



No matter
when or where!

Keep up the entertainment anytime.

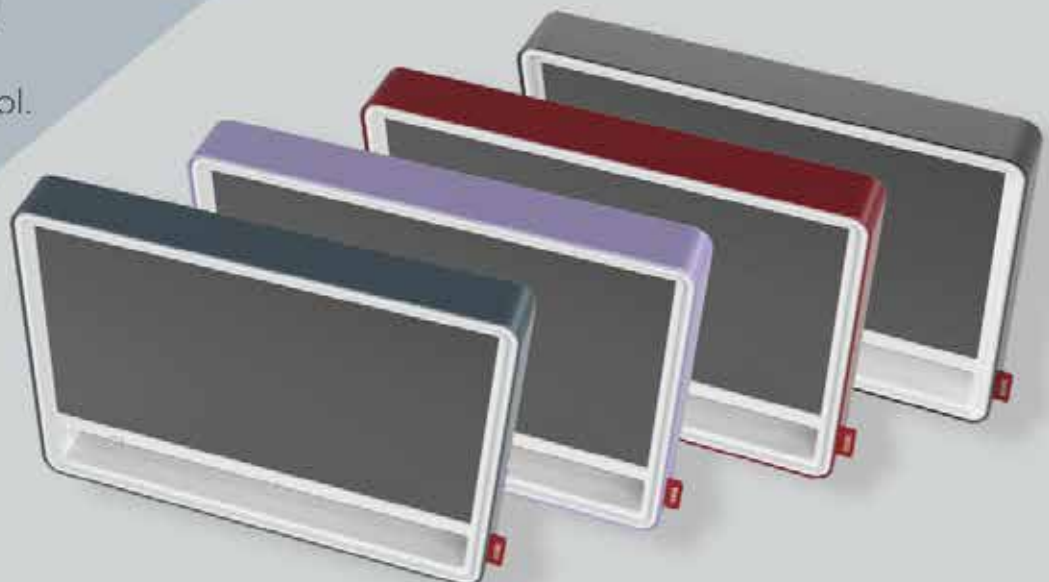
TV With Me is as light as
your backpack with its weighing
~4.2 kilograms. You can easily carry it
to every corner of your house.



*Optional
cloth pad cover*

Optional additional TV stand

Stylish design and
different TV color options!
Unique, compact and
user friendly remote control.



■ Deep Teal ■ Amethyst Shine ■ Lava Drop ■ Dark Glacier



Next Generation Frameless

Vestel brings two new platforms with new design approaches; "modularity" and "high variability".

Within the new industrial design conceptual base of modularity and creating high differentiation possibilities, there lies the basics of science of optic and engineering.

Optic distance -which creates the depth of the backlight unit- of the new half back cover designs reduced drastically with the collaborative R&D studies to catch up with the global design trends.

xx870

43" - 50" , 55" , 65" , 70"



The xx870 TV cabinet is a marvel of modern design, blending functionality with an aesthetic that complements any contemporary living space. Its slimmer design is a testament to the advancements in minimalist styling, featuring an ultra-thin bezel of less than 2mm that virtually

disappears, offering a near-seamless visual experience. The sleek lines and subtle curves of the cabinet ensure that the focus remains on the screen, enhancing the immersive viewing experience.

xx871



HDR

UHD

SMART TV

AVAILABLE SIZES

D-LED / QLED

43", 50", 55", 65"



xx874



HDR

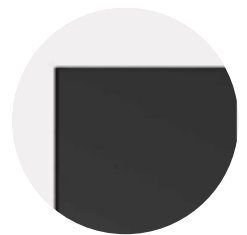
UHD

SMART TV

AVAILABLE SIZES

D-LED / QLED

43", 50", 55", 65"



xx875



HDR

UHD

SMART TV

AVAILABLE SIZES

D-LED / QLED

43", 50", 55", 65"



xx660



Being the slimmest series in the new OD20 platform, XX660 is highly competitive within the market with its several versions.

Thanks to its design, OD20 metal backlight unit almost while the half back cover unit supports the visual conception.

XX660

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HDR

UHD

FHD

SMART TV

AVAILABLE SIZES

D-LED

32", 43", 50", 55", 65", 70"



XX661

>



HDR

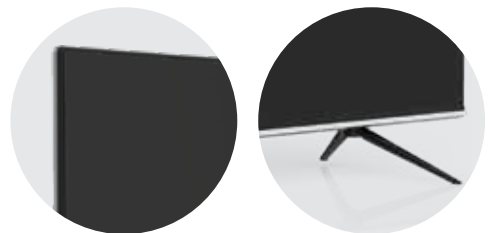
UHD

SMART TV

AVAILABLE SIZES

D-LED

43", 50", 55", 65"



XX662

>



HDR

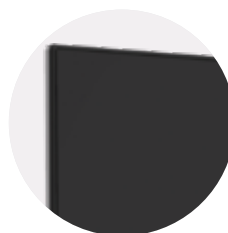
UHD

SMART TV

AVAILABLE SIZES

D-LED

43", 50", 55", 65"



XX664

>



HDR

UHD

FHD

SMART TV

AVAILABLE SIZES

D-LED

32", 43", 50", 55", 65"



XX665

>



HDR

UHD

FHD

SMART TV

AVAILABLE SIZES

D-LED

32", 43", 50", 55"



XX666

>



HDR

UHD

FHD

SMART TV

AVAILABLE SIZES

D-LED

32", 43", 50", 55"



xx750



XX750 DLED TV is designed to connect people with media seamlessly. The section of the bezel creates a frameless visual all around the display. metal half back cover with precise details at combination of bottom frame and back light metal unit supports the quality feeling. bottom frame lens of XX750 is ready to be hot-stamped with different films to be mass customized”

XX750

>



HDR

UHD

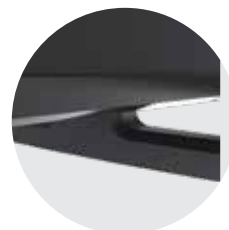
FHD

SMART TV

AVAILABLE SIZES

D-LED

32", 40", 43", 50", 55", 65", 75"



XX754

>



HDR

UHD

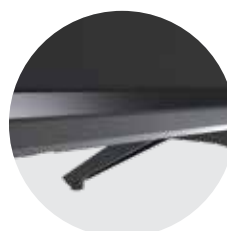
FHD

SMART TV

AVAILABLE SIZES

D-LED

32", 40", 43", 50", 55", 65", 75"



XX756

>



HDR

UHD

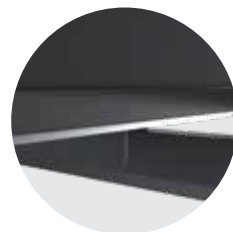
FHD

SMART TV

AVAILABLE SIZES

D-LED

32", 40", 43", 50", 55", 65", 75"



XX758

>



HDR

UHD

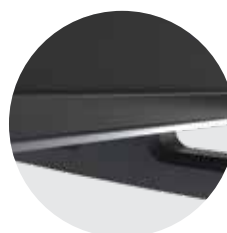
FHD

SMARTTV

AVAILABLE SIZES

D-LED

32", 40", 43", 50", 55", 65", 75"



XX759

>



HDR

UHD

FHD

SMART TV

AVAILABLE SIZES

D-LED

32", 40", 43", 50", 55", 65", 75"

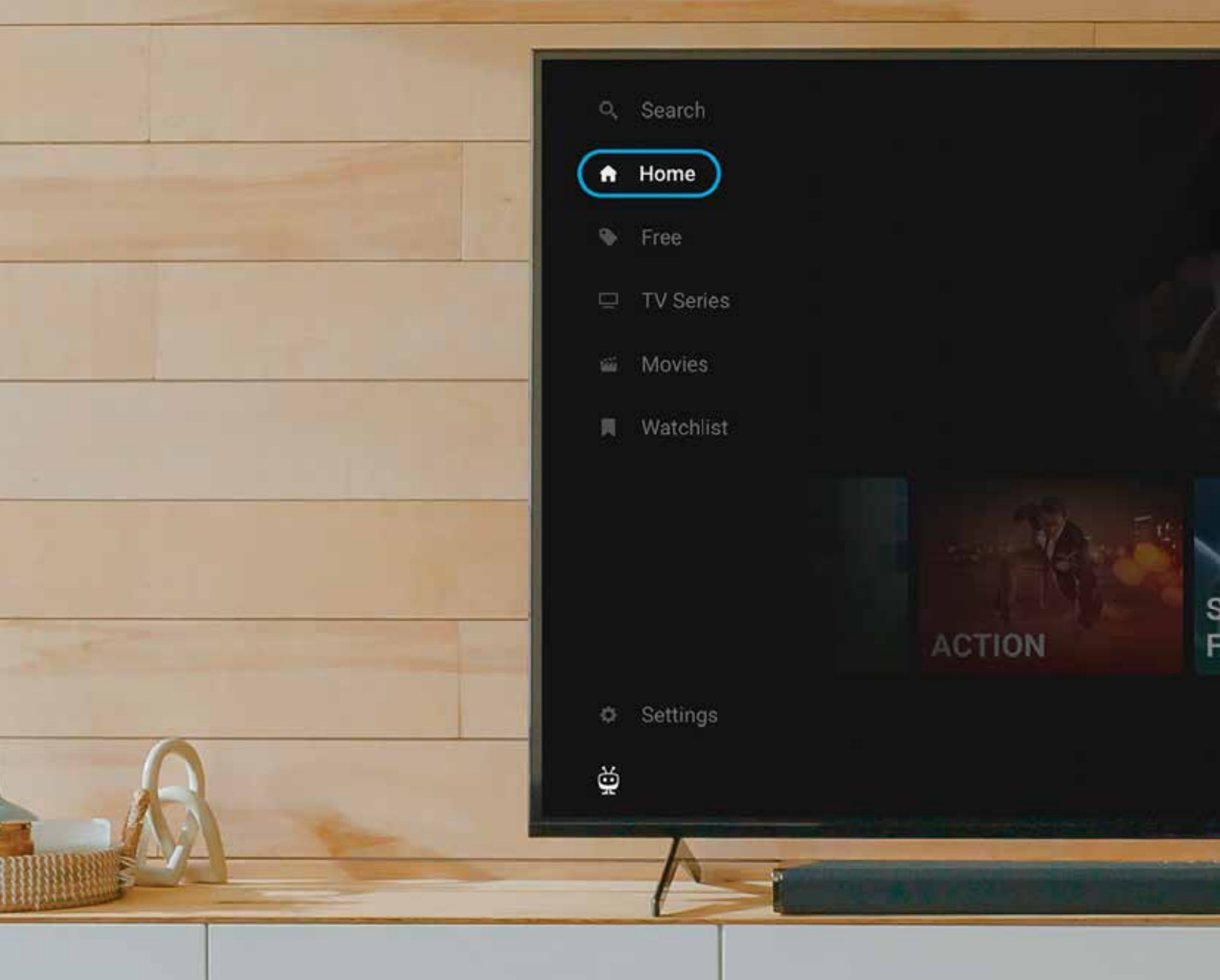




The background image shows a cozy living room. On the left, a blue sofa is adorned with a large yellow cushion and a smaller blue cushion. In front of the sofa is a dark wood coffee table. On the table, there is a smartphone and a pair of white over-ear headphones. To the right, a green tufted armchair is visible. The wall behind the furniture is made of dark wood, and a white shelf with decorative items is on the far left.

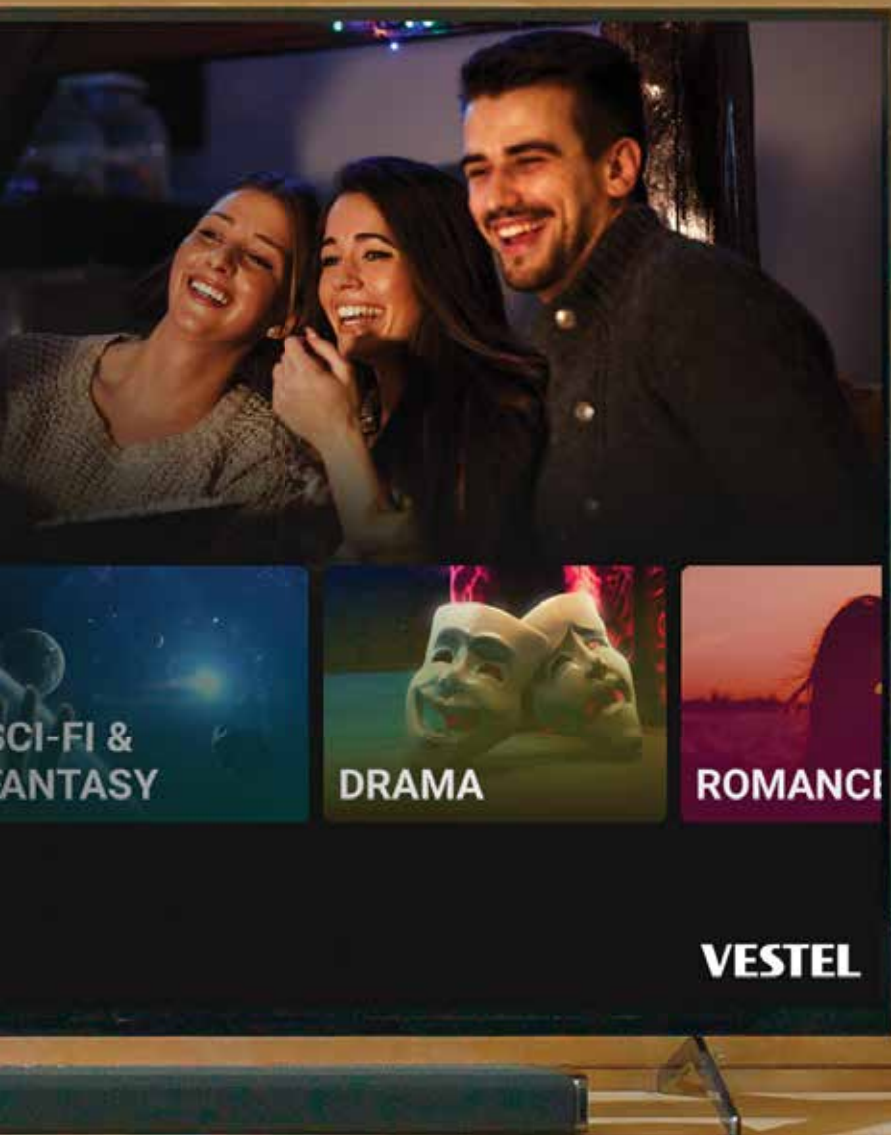
Technology Highlights

Vestel offers TV models that include the latest technology thanks to its strong R&D capabilities. Vestel Smart TV that includes most popular global contents, specific attractive apps and starring TV features are all presented in broad lineup of Vestel. Moreover, Vestel is expert of multiscreen technologies as wireless display technologies are supported by Vestel Smart Center app that is offered in mobile devices in order to achieve second screen activities simultaneously with Vestel TV. You will be the master of technology as Vestel brings fantastic features into your home..



Choice. Innovation. Simplicity.

From easy set up to finding the right movie or TV show, Powered by TiVo smart TVs create a simple and intuitive experience. Starting with natural voice navigation and ending with an award-winning experience, Powered by TiVo smart TVs are at the forefront of innovation, providing new ways for you to enjoy. Designed with the latest technologies, Powered by TiVo smart TVs are fast, accurate, and responsive.



Representing unparalleled performance, quality and innovation, Powered by TiVo smart TVs bring all your movies and shows from your favorite streaming services to one single screen. Find, watch and enjoy the ultimate entertainment experience at home.

- **FREEDOM OF CHOICE**

Searching, browsing and creating watch lists across your favorite streaming services and recommending new favorites.

- **PERSONALIZED RECOMMENDATIONS**

Customized entertainment, recommending what to watch based on your unique taste profile.

- **INTUITIVE EXPERIENCE**

Creating new ways to enjoy TV with best-in-class, natural voice navigation.

androidtv



As one of the leading manufacturers of the new version of Android TVs running on the latest Android Operating System, Vestel is proud to announce its commitment to the Android ecosystem.

Android TV brings content to the forefront of the TVs and allows for easy discovery and consumption of OTT content with its built-in Google Assistant.

Android TVs are going to get steady security updates and version upgrades within the 3 years from their development. This will assure our customers to always access the new improvements without the need to replace their products.

With their Android TVs Integrated with the Android ecosystem, customers will be able to control their smart home devices through their TVs and share their Android phone screens to their TVs with the integrated Chromecast support.

Voice Enabled BT Remote

CONTENT*

Netflix
Prime Video
YouTube
Google Play Movies
Google Play Music
3000+ apps thru Google Play

USAGE

Google Assistant (in
selected countries)
Built-in Chromecast

*app availabilities may change based on
location and at app owner's discretion

Google TV



Everything you stream. All on one screen.

It's all right here. With 700,000+ movies, TV episodes and more available across 10,000+ apps, Google TV takes streaming to the next level — bringing together your favorite entertainment from across your apps and organizing it all, just for you.¹ Looking for something special? Just press the Google Assistant button on your remote and say “play the new Despicable Me prequel” to get quick results from all of your apps.²

Personalized entertainment for everyone in your home

Personalized recommendations from Google let you discover new movies and shows based on what you've watched and what interests you so you can quickly find your next favorite. And that new show your friends are raving about? No matter where it's streaming, add it to your watchlist³— right from your TV, phone, or browser. And since everyone in your household can build customizable profiles, including dedicated kids profiles, your recommendations and watchlist are all your own.

Do more on your TV with your voice. Find shows instantly, without having to jump from app to app. Use your voice to search across all of your apps at once — and find exactly what you're looking for, whether you're searching by title, genre, or related shows. You can even ask Google Assistant about the weather and sports scores, and controlling smart home devices is as easy as saying, “Hey Google, turn off the living room TV”.

Voice remote alt: You can even ask Google Assistant about the weather and sports scores, and controlling smart home devices is as easy as pressing the Google Assistant⁴ button and saying, “turn off the living room TV”.

Required disclaimer

1) Some apps, content, and/or features may not be available in all countries. Subject to availability. Subscription, download, or purchase may be required for viewing.

2) Requires Internet connection. Subscriptions for services may be required.

3 Requires internet connection.

4 Google Assistant required for full functionality. Internet connection required.

Voice Enabled TV



Alexa Built-in

Consumers are able to use Alexa to control their Vestel Smart TVs through embedded microphone on their TVs – all without a need for an additional Echo device! Alexa is able to help customers perform functions -additional to the Alexa utterances- such as turning the TV on and off, increasing or decreasing the volume, and changing the channels etc.



Smart TV Works with Alexa

Vestel TVs are able to work with Alexa. Users can control their Vestel TVs through Amazon Echo devices by just adding the TV to Smart Home device list. Customers can differentiate these TVs with their works with Alexa badges.



Built-In Hey Google*

Use Hey Google to control your Vestel Android TVs through embedded microphone on their TVs – all without a need for an additional Google Assistant device! Hey Google is able to help customers perform functions -additional to the Hey Google utterances- such as turning the TV on and off, increasing or decreasing the volume, and changing the channels etc.



Hey Google “Works with Google Home

Consumers can control their Vestel Smart TVs with their Google Assistant devices. Users in Google Home available countries are able to control their Vestel Smart TVs with their voice in their own languages.



Smart TV

Vestel Smart TV allows you to access all kinds of content with a simple click of your remote control. Through apps available on our platform you can stream music, videos and movies in real time. You can watch the missed episodes of your favorite TV shows via catch up services; you can rent the latest movies or watch internet videos. Moreover, you have access to many online applications in various categories such as news, sports, games, weather, entertainment, social networks and more. Featuring an app-first interface, Vestel Smart TVs allow you to customize the launcher of your TV in any way you want – all to provide a faster access to your favorite apps and content!

Available Services for Smart TV

Video

VOD

Premium VOD

Local content

Rental Video services

Catch-up

Local TV channels

Internet Video

Personal Music Channel

Social Networking

Music

Personal Radio

Music-on-demand

Web Radio

Games

Information Services

Weather

News

NETFLIX

Netflix is the most famous and essential VoD provider to watch movies and TV shows over internet connection. Vestel Smart TV enables you to watch thousands of movies and TV shows anytime you want and as much as you want via Netflix service. Having access to incredible world of TV episodes and movies, Vestel Smart TV instantly transforms your living room to a movie theater or a TV studio!



Prime Video is the Video on Demand service developed, owned and operated by Amazon. It offers television shows and films for rent or purchase as well as a selection of Amazon Studios

original content and licensed acquisitions. You can get access to Amazon's carefully curated and steadfastly expanding content with an Amazon Prime or Prime Video Membership. As a close partner of Amazon, Vestel Smart TVs bring the Amazon experience to your living rooms at your fingertips or through your voice!



Youtube is the world's biggest and most popular video sharing platform. The latest and greatest music videos, trends and channels are in here. You can also synch your mobile device to the app and enjoy the content. Being the most used app on Smart TVs through out the world, Youtube is essential.



BBC iPlayer is an online VoD platform including whole TV shows as well as range of video clip contents. You can watch live contents and your favorite TV programs that you missed via BBC iPlayer on your Smart TV. Vestel Smart TV is all you need to meet your expectations from an online TV and radio service by providing you an opportunity to experience devastating entertainment show.



Freeview Play is another smart portal that Vestel supports which includes BBC iPlayer, ITV, All4 and Demand5. You can enjoy catch up services of these channels via backward EPG, all in one place. Just connect to internet, open your Freeview Play and start watching without a subscription fee.



Freely is the new way to do free TV.

The newest (most exciting) way to stream live and on demand TV, all in one place, for free. No more app-switching to track down favorite shows. Audience can now find everything in one place from all the big channels.



Browse & stream your favorite music and podcasts from your web browser now. Listen to your favorite playlists from over 90 million songs on Amazon Music



Rakuten TV is a video-on-demand streaming service, offering movies and TV series for subscription, rental and purchase. Rakuten TV's catalogue includes content from studios around the world including Warner Bros., Disney, Sony Pictures Entertainment and Twentieth Century Fox Home Entertainment, local distributors, and independent labels.

Operational in 11 countries across Europe, Rakuten is a longterm partner of Vestel.



TikTok is the leading destination for short-form mobile video. The mission is to inspire creativity and bring joy



Endless entertainment: Explore thousands of hours of TV series, movies, and originals.
Available on your favorite devices: Stream on up to four screens at once on compatible devices.
Easy-to-use parental controls: Keep your family safe with our intuitive parental controls.



 **Dolby Vision**

What is Dolby Vision?

Vestel & Dolby Vision cooperation transforms the way you experience movies, TV shows, and games with incredible brightness, contrast, and color that bring entertainment to life before your eyes. By fully leveraging the maximum potential of new cinema projection technology and new TVs' display capabilities, Dolby Vision delivers high-dynamic-range (HDR) and wide-color-gamut content. The result is a refined, lifelike image that will make you forget you are looking at a

screen. Current consumer video delivery and cinema standards are based on the limitations of old technologies and require altering the original content before it can be reproduced for playback—dramatically reducing the range of colors, brightness, and contrast from that captured by modern cameras. Dolby Vision changes that, giving creative teams the confidence that images will be reproduced faithfully on TVs, PCs, and mobile devices that feature Dolby Vision.

 **Dolby**
VISION IQ

Dolby Vision IQ extends the benefits of Dolby Vision beyond HDR by intelligently optimizing picture quality experiences for viewers in any room at every moment, all without consumers picking up their remote.



Dolby Vision Imaging Experience

Creates and maintains best HDR experience for customers with a Dolby Vision TV, leveraging broad content & device ecosystem



Automatically Perfect for all Lighting Environments

Maintains Dolby Vision color accuracy through use of content metadata when ambient lighting conditions change



Dolby End-to-end Ecosystem

Ensures superior experiences across all playback devices through comprehensive testing of SoCs and systems.



Automatically Perfect for all Content Types

Intelligently adjusts and optimizes the image based on content type (Gaming, OTT, etc.)

Why Dolby Vision?



Refined Detail

Refined detail helps reveal the nuanced textures and patterns of our world on the screen through the precise use of expanded color and contrast ranges.



Expanded Contrast

Expanded contrast uses the much wider range of brights to darks to more closely capture the look of the real world, such as when bright shafts of light come streaming through a window into a dark train station.



Deep Darks

Deep darks provide a new level of richness and precision that makes every scene look more real and nuanced, helping you uncover secrets in the shadows or see the full depth of night skies.



Astonishing Brightness

Brightness blazes from the screen more brightly than today's standard TV sets allow while maintaining lifelike color and detail, so you can see the fiery flash of an explosion as well as the true beauty of a warm sunset.



Ultravivid Colors

Ultravivid colors display many more hues across the full brightness range — some never before seen on standard televisions — to show everything from the most intense neon lights to the subtlest shades of flowers to the true red of a London double-decker bus.



Enhanced Dimensionality

Enhanced dimensionality emerges from the picture, with more lifelike forms that have realistic shadows and crisp edges to impart a subtle but convincing three-dimensional feel.



Dolby Atmos Ecosystem



Content

Dolby has built relationships with studios and creatives



Creation Tools

Spec mixing studios integrated Atmos into content creation



Cinema

More than 6000+ screens and 240+ Dolby Cinema's have atmos.



Distribution Tools

HW & SW tools and audio codecs created for delivery



Distribution

Atmos enabled on linear, VoD and OTT services



Playback

Device manufacturers decode codecs for the Atmos experience

A consumer can experience Dolby Atmos in the cinema and get that same Dolby Atmos experience in the home like no other sound solution.



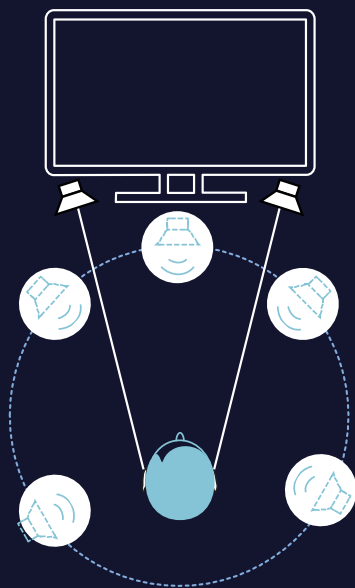
Dolby Atmos for TVs

A TV with front or down-firing stereo speakers using Dolby Atmos immerses you in your favorite entertainment with sound that moves all around you with breathtaking realism.

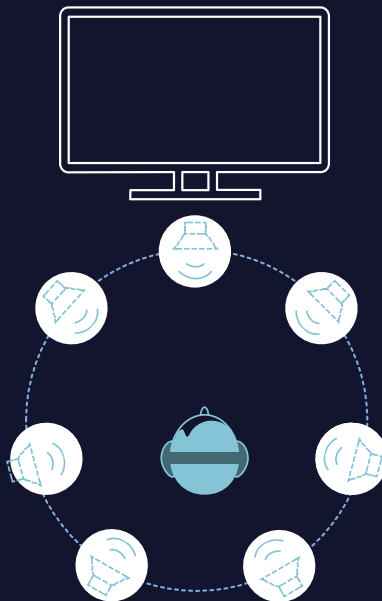


Improves the audio experience for speaker playback.

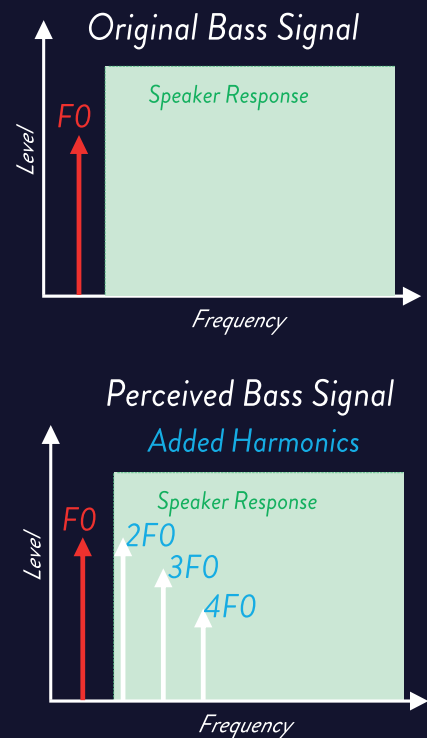
Speaker Virtualizer



Headphone Virtualizer



Virtual Bass



Dolby Audio Processing Engine

Dolby Audio Processing (DAP) is a suite of post - processing technologies designed to improve the audio playback experience on a TV using TV speakers.

Surround Virtualizer + Upmixer

Volume Leveler

Dialogue Enhancement

Bass Enhancement and Virtual Bass

Speaker Tuning

Media Intelligence

Takes You Inside the Sound

DTS has been making the world sound better with immersive, engaging audio experiences since 1993. We won't stop until every experience is sensational. The exclusive audio partner for the IMAX® Enhanced program.



DTS:X™ and DTS Virtual:X™

You're in every scene with DTS:X. Environments captivate. Games thrill. Home theater sound comes alive like never before. With as few as two speakers, DTS Virtual:X technology creates a cinematic experience, transforming your favourite movies with lifelike surround sound.



DTS® Play-Fi®

Wireless Surround Sound Made Simple

Welcome to DTS Play-Fi, the first-ever whole-home audio system that gives you the power to easily connect your TV with speakers, soundbars or subwoofers for a hassle-free multi-dimensional listening experience.



Also Featuring These Technologies

DTS 2.0 | DTS-HD

DTS TruSurround | DTS Studio Sound

IMAX[®] ENHANCED

By IMAX **dts**



A person is seen from behind, sitting on a couch in a dark room, watching a large IMAX Enhanced movie on a wall-mounted screen. The screen displays a vibrant, abstract scene with a bright, glowing horizon and a large, dark, textured object in the foreground. The person is holding a bowl of popcorn. The overall atmosphere is immersive and cinematic.

UNLEASH THE POWER OF IMAX AT HOME

IMAX Enhanced is the only way to experience IMAX's signature picture, sound, and scale outside of a movie theater. IMAX Enhanced combines digitally remastered 4K HDR content and DTS audio technologies with best-in-class consumer electronics, products and streaming platforms.

[IMAXenhanced.com](https://www.imaxenhanced.com)



dts play-fi™

Premier Whole-Home Audio Made Simple

Welcome to DTS Play-Fi, the whole-home wireless audio system that gives you the power to easily connect your TV with speakers, sound bars and sub-woofers from multiple brands.



Wireless Whole-Home Audio

In a flexible ecosystem of over 30 brands and over 400 products

TV Audio Wherever You Are Via WiFi

Synchronised with video to enable continued TV listening in any room

DTS Play-Fi Headphones

Private listening through the DTS Play-Fi Headphones app

Popular Music Services

Easy access to Spotify, Deezer, Amazon Music, Tidal and many more



Experience the Power of WiFi 6: Unleash the Future of Wireless Connectivity!

Say hello to the next generation of wireless technology with WiFi 6. Designed to meet the ever-increasing demands of modern connectivity, WiFi 6 takes your internet experience to unparalleled heights. Get ready to enjoy lightning-fast speeds, wider coverage, and exceptional performance that will revolutionize the way you connect, work, and play.

WiFi 6's enhanced capacity allows for more devices to connect simultaneously without sacrificing performance. Whether you have a smart home with multiple IoT devices, a bustling office with numerous connected devices, or a household with multiple family members streaming content, WiFi 6 ensures smooth and reliable connectivity for all. Stay connected from every corner of your home or office with WiFi 6's extended range. Its advanced technology penetrates walls and obstacles, providing a stronger and more consistent signal throughout your space. Say farewell to dead zones and experience a reliable connection in every room, allowing you to work, study, or relax anywhere you desire.



Multiscreen Technology



Vestel Smart TV allows you to use your companion devices (tablet pc and smartphone) by synchronizing them with your Smart TV. Meanwhile, you can build multi-screen system at your home that upgrades you to a higher entertainment level. You can control your Smart TV with your mobile devices wirelessly, you can send multimedia contents from your devices to your TV in order to view them on TV screen and transfer TV stream to your companion devices to watch the stream on device simultaneously.



Wireless display

Wireless display feature allows mirroring the screen of your compatible Android device to stream videos up to 1080p on your Vestel Smart TV. While you are streaming a video on your smartphone, you can simultaneously mirror the screen of Android device on your wider Smart TV screen to enjoy detailed and higher quality pictures on TV without using any cable. Moreover, it is possible to send up to 5.1-surround sound that enables you to experience high quality sound as well. Besides, you can just share the home screen of your device, to scroll between the apps on your Android device. Directly connect mobile device to your TV and get a new

perspective on sharing!

Besides, wireless display technology allows users to send stream, photos, music, videos and apps from compatible Intel based PCs or portable devices to your wireless display compatible Vestel TV wirelessly. You can send up to 1080p video and 5.1 surround sound and have the opportunity to display the stream or multimedia contents on the bigger screen of TV with excellent picture and sound quality. You don't have to stick to little screen of your PC or portable device anymore. Just enjoy the new entertainment experience on your TV!





VCAST

You can use your phone, tablet, or computer to control supported applications on TV. This feature of Youtube application helps the user to connect their personal accounts to their Smart Tv only with a few clicks. You will have the comfort and efficiency of your mobile devices while watching the content desire on your Smart Tv. Just make sure your phone, tablet, or computer is connected to the same Wi-Fi network as your TV device. You also have the option to link with a TV code.

Followme TV

Do you have to do some work in kitchen and want to continue to watch your favorite program? Smart Center allows viewers to deliver the video stream from Smart TV to tablet pc. While watching your favorite program, just transfer the broadcast to your mobile device. You can take your mobile device with you and continue to watch your favorite program in your kitchen!

EPG via Gracenote

EPG (Electronic Program Guide) data provides necessary information to viewers about TV broadcast prograing and program schedule for current and upcoming programs. Via Gracenote, Smart Center app will provide you broadcast schedule data and you will be aware of TV programs in details such as cast and crew. Moreover, you will be able to set reminders to watch your favorite programs as well as recording on time schedule of programs based on EPG data.

Portal launcher

Viewers can launch Smart TV Apps from personal tablet PC. Without using classical remote control, via Smart Center, you can connect your mobile device to your TV and directly launch various Smart TV apps and open browser by using your mobile device.



TV control: voice control, touchpad, keyboard and remote

You don't need your classical remote anymore! Via Smart Center, there are many options to control your TV over your mobile device. By using remote control panel on your mobile device; you can use your device as classical remote control. Moreover, you can use keyboard option while searching on internet. While using open browser, you can turn your mobile device into a touchpad controller. Attractively, you can give voice coands over Smart Center to control some features of your Smart TV.

Social media interaction

You can follow and send program related tweets or like your favorite programs on Facebook while watching your favorite TV program on your Vestel Smart TV. This way, you can connect to people all over the world that have the same delight with you!

Media share

Via Smart Center, it is possible to send music, pictures and videos from your mobile device to your Smart TV TV by swiping over DLNA protocol and view them full size on your Smart TV to enhance your viewing experience. For instance, you can display your holiday photos together with your family on your big screen quality Smart TV with a simple swipe movement.

TV programs and vod (video-on-demand)

Viewers can browse TV channels, search movies or on-demand services on Smart Center. You can arrange your favorite TV channels, you can see the details of your favorite program and watch videos by using VoD that are related to your favorite TV program on internet.

Basic Hotel Mode



Hotel Mode Features

Basic hotel mode is particularly configured mode which makes usage of TV more specific and more accurate for commercial TV business branches thanks to the features it includes. Some basic features provide enhanced differentiation and to the point meet of expectations in hospitality applications which can be accessed via special controller combination.

Wake-Up Alarm

In hotel mode, guests can set a wake-up time and TV can automatically wake up at the desired time and an alarm rings to wake you up. Concurrently, welcome image is shown on the screen while alarm is ringing.



Welcome Screen

Commercial logo, message or default pictures can be used and displayed at the start-up of TV. These can be displayed if the hotel mode is enabled. This feature allows you to benefit from customization at the high levels.

USB Cloning

USB cloning allows you to copy the settings of one TV to all other TV units in an easier way. For instance, you can copy the settings or channel list of one TV to high amounts of TV by using USB cloning. By this way, you can simply standardize all TVs without spending a lot of time. Helpful USB cloning feature prevents you from dealing with time-consuming installations and makes your life easier.



Start-Up Position

This feature allows you to specify the starting channel when TV is switched on.

Volume Limit And Fixed Volume Value

You can set the maximum and minimum values as you wish. If you set volume limit, you set the maximum value the volume can have. Moreover, when fixed volume enable is on, volume cannot be set to a value other than the fixed volume value.

Custom Bootlogo

Custom Bootlogo feature allows you to choose your favorite photo such as your family photo, favorite nature photo and more for the opening screen of TV. Meanwhile, customization opportunity will make your TV exclusive for you!

Osd Disable On/Off

OSD disable allows you to control TV settings and prevents guests from changing the installation settings. Users cannot reach channel table or installation menu and that means channel list and installation settings cannot be changed.

Last Status

When 'last status' feature is set to on, this feature enables TV to open with the closing status. Otherwise, TV opens with standby status.



Multi IR RCU*

In areas where there are multiple TVs installed, thanks to the Multi IR remote control unit, each remote can be assigned to a different TV with no signal interference from other remote controls. Up to four TVs can use this function simultaneously.

One Channel List

There may be several programs which can be received from terrestrial, cable or satellite broadcasts. VESTEL HotelTV provides a convenient channel list management with a single channel list which consists all the programs regardless of broadcast type.

USB

USB allows easy connection of external storage devices directly to your TV set. Via USB you can quickly connect external storage and access digital contents such as image files, video files and audio files. Simply connect your external memory source to USB port of Vestel TV to watch your favorite movies or to display photos that are stored on big screen of TV instead of being obliged to display these contents on the small screen of your computer. Plug yourself in bigger screen for higher pleasure!

BLUETOOTH

Vestel Smart TV's Bluetooth feature helps you to connect your accessories to your TV via Bluetooth. You can connect your headphones, sound systems, compatible 3D glasses and Vestel Touchpad remotes to enrich your TV using experience. Bluetooth feature completely changes your classical TV using habits and a true item for you to multiply the joy you have while watching TV!

HDMI

HDMI 2.1 provides Dynamic HDR for specifying HDR metadata on a scene-by-scene or even a frame-by-frame basis, Enhanced Audio Return Channel (EARC) for object-based audio formats such as Dolby Atmos and DTS:X.

Enhanced refresh rate and latency reduction features:

Auto Low Latency Mode (ALLM)- ALLM allows the current HDMI source device to automatically select, based on its better understanding of the nature of its own content, which mode the user would most likely prefer.

Auto-Data Erase

Hotel TVs have the ability to clear all cache data for Smart TV applications such as Facebook, Twitter, Youtube, etc. This increases the security for hotel guests.

Anti-Theft Battery Cover*

The anti-theft battery cover is a simple screw lock providing a fool-proof security to prevent the remote control battery from being stolen. It just makes your life easier.



DVB-T&C, T2, S2 and DVB-I

Vestel Smart TV includes Triple Tuner of Terrestrial, Cable and Satellite as default, which could receive various definitions such as Standard, High definition and 4K Ultra High definition. Thanks to CI+, viewers can eliminate set-top-box and Pay TV receiver. On top of the triple Tuner configuration for Digital broadcasting, Vestel

Smart TV supports DVB-I, which offers the possibility for linear television services to be delivered to any device with a suitable internet connection on Smart TV. Vestel launched Smart TV with DVB-I first to Italian DVB-I Market Trial in Nov/2023 and is ready to expand the coverage.

HbbTV (Hybrid Broadcasting and broadband) is an industry standard, which provides a delightful entertainment to the audiences through the harmonised varieties in the way of hybrid of broadcasting and broadband. Audience will access more services from broadcasters and online providers such as Catch-up service, video-on-demand (VoD), targeted advertisement, personalization, OpApp, voting, gaming and social networking, on top of rich TV Guide.

DVB T2/C/S2 DVB I



ECP/CI+ 2.0



The CI Plus standard is an enhanced security system that allows manufacturers, operators and broadcasters to deliver secure content on digital TV receivers via the Common Interface (CI) and Conditional Access Module (CAM).

The Next-Gen CI Plus 2.0 specification adds a USB-form factor, whereby consumers can receive Pay-TV services by leveraging USB-based CAMs.

Also CI+ 2.0 in USB form factor is Eco – design, which would contribute the reduction of CO₂ production in terms of production, logistics.

Last, but not least, an lower power consumption of CI+2.0 in USB form factor will help the reduction of electrical power usage.

Country Based Approvals and Broadcast

Country Based Approved Operators	Terrestrial DVB-T	Terrestrial DVB-T2	Cable DVB-C	Satellite DVB-S/S2
Australia	freeview 			
Austria		Magenta ® TV		
Belgium		 		
Croatia				
Czech				
Denmark				
Estonia				
Finland				
France				
Germany	 			 ready for 
Ghana				
Greece				
Hungary				
Ireland				

Country Based Approved Operators	Terrestrial DVB-T	Terrestrial DVB-T2	Cable DVB-C	Satellite DVB-S/S2
Italy				 
Netherlands			 	
New Zealand				
Norway				
Poland				
Romania				
Slovakia				
Spain				
Serbia		Digital TV Coming soon		
Sweden				
Switzerland				
Turkey				 
UK		  		





Remote Controls



RC 4591P



RC 22139P



RC 39175



RC 45135TR



RC 45136



RC 45136TR



RC 45137P



RC 45137T



RC 45137T2



RC 45157

Remote Controls



RC 45160



RC 45162



RC 45165T



RC 45190



RC 45192



RC 45194T2



RC 45195T

Stand Designs

Single Neck And Twin-Stand Design

Vestel designs own TV stands by applying creative design process. Applying the latest unique design trends, Vestel TV is the representative of elegance with its huge amount of stylish stand design options.

Including many different trendy stand designs, Vestel TV stands are designed and classified as two main categories: Single-Neck and Twin Stands.

Single-neck and twin-stand options make Vestel flexible to use both concepts to form different combinations of TV lineups. Using these options, Vestel TVs provides different look matching with the environment that TV stands in.



Stand Designs



xx633



xx636



xx632



xx652



xx653



xx654



xx634



xx640

Stand Designs



xx516



xx518



xx519



xx526



xx561



xx563



xx660

Stand Designs



xx530



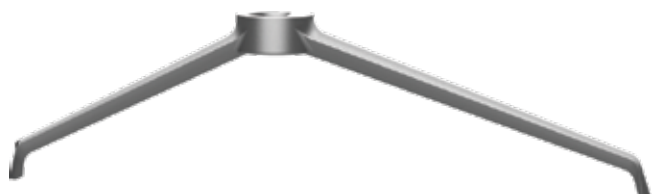
xx533



xx534



xx535



xx536



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xx539

Stand Designs



xx570



xx571



xx550



xx552



xx553



xx554



xx555

Stand Designs



xx500



xx501



xx502



xx503



xx504



xx505

Stand Designs



xx506



xx507



xx508



xx509



xx410

Awards

445
AWARDS



DME

DESIGN
MANAGEMENT
EUROPE

**DME
AWARD.**

RED DOT



reddot design award
winner

A'DESIGN



AWARDS
WINNER

IF



PLUS X



PLUS X AWARD

GOOD DESIGN



ePDA

EUROPEAN
PRODUCT
DESIGN
AWARD

IDA



WINNER

DESIGN TURKEY



TURQUALITY

TURQUALITY

Specifications



MB140TC	24"	32"
	MB140TC	MB140TC
MAIN FEATURES		
FULL HD	-	-
ULTRA HD	-	-
100HZ (FLICKER FREE)	-	-
LED DIRECT BACK LIGHT (DLED)	■	■
LED EDGE BACK LIGHT (ELED)	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-
OLED	-	-
MPEG4	■	■
HEVC (H.265)	□	□
ISDB-TB	-	-
TV-DVD PLAYER COMBI	-	-
3DTV	-	-
3DTV TYPE	-	-
2D - 3D CONVERSION	-	-
MEDIA PLAYER	■	■
PVR READY (USB RECORD)	-	-
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	1.4	1.4
SCREEN FORMAT		
VISIBLE SCREEN SIZE	81	81
SCREEN FORMAT	16:9	16:9
RECEPTION & TUNING SYSTEMS		
TUNER VHF/UHF/CABLE	■	■
APS / ATS (AUTO SEARCH)	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■
NTSC	-	-
DUAL TUNER	-	-
UNICABLE	□	□
DISEQC	□	□
SOUND		
GER(D) + NICAM STEREO	■	■
EQUALIZER (5 BAND)	5 band	5 band
BASS / TREBLE	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■
DDCO	-	-
MS10 (DOLBY)	-	-
MS11 (DOLBY)	■	■
MS12 (DOLBY)	-	-
DOLBY AUDIO PROCESSING (DAP)	-	-
DOLBY ATMOS	-	-
DOLBY AC4	-	-
DTS TRUSURROUND	□	□
DTS 2.0+ DIGITAL OUT	-	-
DTS HD	□	□
DTS VIRTUAL:X	-	-
DTS:X	-	-
SURROUND SOUND	■	■
AUDIO OUTPUT POWER (RMS)	2x6W	2x6W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	-
PLAY-FI	-	-
CONNECTORS I/O		
RF: TV/CATV 75 OHMS COAXIAL	■	■
SCART (EUROCONNECTOR)	-	-
SVHS VIA SCART	-	-
RGB VIA SCART2	-	-
COMPOSITE VIDEO/AUDIO IN	■	■

COMPOSITE VIDEO OUT	-	-
AUDIO LINE OUT	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-
YPBPR (COMPONENT) IN	-	-
YPBPR IN VIA VGA	-	-
VGA (PC IN: D-SUB15)	-	-
PC AUDIO IN	via Side AV	via Side AV
HDMI 1 (Side)	■	■
HDMI 2 (ARC) (Back)	■	■
HDMI 3	-	-
HDMI 4	-	-
HDCP (1.2/ 2.0 / 2.2)	1.2	1.2
DIGITAL AUDIO OUTPUT (COAXIAL)	■	■
DIGITAL AUDIO OUTPUT (OPTIC)	-	-
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■
HEADPHONE OUT (HEADPHONE VOL. CONTROL SUPPORT DUAL CHANNELS)	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-
INTERNAL SUBWOOFER	-	-
USB1 (2.0) (Side)	■	■
USB2 (2.0) (Back)	-	-
USB3 (2.0)	-	-
USB4 (2.0)	-	-
LAN-ETHERNET (IEEE 802.3) RJ45	-	-
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-
RS232 (IN/OUT) (D-SUB 9)	via HP	via HP
DIGITAL SW UPDATE	USB	USB
PIP / PAP / PAT		
TV PICTURE IN PC (PC PIP)	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-
PICTURE IN PICTURE (2 ANALOGUE TUNER PIP)	-	-
PICTURE AND PICTURE (PAP)	-	-
PICTURE AND TELETEXT (PAT)	-	-
PICTURE		
ZOOM MODES (ASPECT RATIO)	■	■
COMB FILTER (2D / 3D)	3D	3D
CTI/LTI	■	■
DIGITAL NOISE REDUCTION	■	■
PSEUDO (SOFT) PIXELLENCE	□	□
DYNAMIC CONTRAST	■	■
PROGRESSIVE SCAN	■	■
ME/MC (MOTION ESTIMATION MOTION COMPENSATION)	-	-
PICTURE WIZARD	-	-
HDR (HDR10, HLG)	-	-
DOLBY VISION HDR	-	-
HDR10+	-	-
BLUE STRETCH	-	-
MICRO DIMMING	-	-
DE-CONTOUR	-	-
GAMUT MAPPING	-	-
SDR TO HDR	-	-
SUPER RESOLUTION	-	-
FILM MAKER MODE	-	-
DOLBY VISION IQ	-	-
AI		
TEXT		
FAST TEXT	■	■
NUMBER OF TELETEXT PAGES	1000	1000

CLOSED CAPTION	-	-
CONNECTIVITY FEATURES		
HBBTV (1.5)	-	-
FREEVIEW PLAY	-	-
WIFI (VIA USB DONGLE)	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	-	-
4K SUPPORT (BY YOUTUBE VP9 2015)	-	-
DLNA 1.5	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-
BLUETOOTH	-	-
HOTEL TV	-	-
DIGITAL SIGNAGE	-	-
PORTAL SUPPORT	-	-
WIFI (INTERNAL)	-	-
OPEN INTERNET	-	-
BBC IPLAYER, NEWS, SPORTS, CRB	-	-
NETFLIX	-	-
NETFLIX 4K	-	-
AMAZON PRIME VIDEO	-	-
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-
SKY NOW TV	-	-
DISNEY+	-	-
MIRACAST	-	-
GOOGLECAST	-	-
INTEL WI-DI	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	-	-
CAMERA (MODULAR ACCESORY)	-	-
WiFi 6	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-
ADDITIONAL FEATURES		
NTSC PLAYBACK	Via Side AV	Via Side AV
SLEEP TIMER	■	■
HOTEL MODE (PASSIVE)	■	■
CHILD LOCK	■	■
NO IDENT TIMER	■	■
TOUCH KEY PAD	-	-
ONBOARD TACT SWITCH	■	■
USB CLONING	-	-
TOUCH SENSE	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-
AIR MOUSE	-	-
FEATURE OSD	-	-
ANIMATED FEATURE OSD	-	-
E-IB	-	-
STR (SUSPEND TO RAM = INSTANT ON)	-	-
JOYSTICK (EXTERNAL TK)	-	-
ON / OFF (EXTERNAL TK)	-	-
DIGITAL (DVB)		
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	7000	7000

MENU LANGUAGES	Danish, German, Estonian, English, Spanish, Greek, French, Gaelic, Gallegan, Croatian, Italian, Latvian, Lithuanian, Luxembourgish, Hungarian, Dutch, Norwegian, Polish, Portuguese, Russian, Romanian, Albanian, Slovenian, Slovak, Serbian, Finnish, Swedish, Turkish, Czech, Ukrainian, Bulgarian, Arabic, Persian, Hebrew, Belarussian, Flemish, Macedonian, Montenegrin, Kazakh,	Danish, German, Estonian, English, Spanish, Greek, French, Gaelic, Gallegan, Croatian, Italian, Latvian, Lithuanian, Luxembourgish, Hungarian, Dutch, Norwegian, Polish, Portuguese, Russian, Romanian, Albanian, Slovenian, Slovak, Serbian, Finnish, Swedish, Turkish, Czech, Ukrainian, Bulgarian, Arabic, Persian, Hebrew, Belarussian, Flemish, Macedonian, Montenegrin, Kazakh,
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■
EPG NOW AND NEXT	-	-
EPG TIMELINE SCHEDULE	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■
SMART CARD	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■
DVB APPROVALS		
FREEVIEW HD	-	-
CABLE READY HD	□	□
BOXER HD	□	□
COMHEM	□	□
ANTENNA HD READY	□	□
CANAL READY	-	-
CI+	1.3	1.3
FREESAT HD	-	-
RIKS TV	□	□
ZIGGO	□	□
UPC	□	□
D-SMART READY	□	□
DIGITURK READY	-	-
ORF	□	□
FRANSAT & FRANSAT CONNECT	□	□
M7	□	□
TELENET	□	□
TDI HIBRIDA	-	-
FREEVIEW PLUS	□	□
HD+	□	□
R2	□	□
LA TIVU	-	-
LA TIVU 4K	-	-
MINDIG	□	□
SAORVIEW	□	□
SKY DEUTSCHLAND	□	□
STOFA	□	□
YOUSEE	□	□
TKGS	□	□
TIVIBU	□	□
UNITYMEDIA	□	□
DTVP	□	□
VOO	□	□
LEVIRA	□	□
CRA	□	□

LOVESTV	-	-
SIMPLITV & SIMPLITV SAT	☐	☐
EVOTV	-	-
NCA	☐	☐
DIGITAL TV	-	-
POLSAT	-	-
EPT HYBRID	-	-
DVD FEATURES		
CD COMPATIBLE PLAYBACK	-	-
DVD COMPATIBLE PLAYBACK	-	-
CD-R COMPATIBLE PLAYBACK	-	-
CD-RW COMPATIBLE PLAYBACK	-	-
DVD-R COMPATIBLE PLAYBACK	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-
MP3 COMPATIBLE PLAYBACK	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-
SACD COMPATIBLE PLAYBACK	-	-
S-VHS COMPATIBLE PLAYBACK	-	-
DVD+R	-	-
DVD+RW	-	-
CD-AUDIO	-	-
KODAK PICTURE CD	-	-
DVD RAM	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-
MULTIPLE LANGUAGE OPTIONS	-	-
MULTIPLE CAMERA ANGLES	-	-
PLAYBACK ZOOM	-	-
PARENTAL SETTINGS	-	-
REGION	-	-
DIGITAL AUDIO OUTPUT (COAXIAL) DTS COMPATIBLE	-	-
DIGITAL AUDIO OUTPUT (OPTICAL) SPDIF DTS COMPATIBLE	-	-
SCREEN SAVER	-	-
TRANSPARENCY LEVELS	-	-
RETURN TO FACTORY SETTINGS	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-
DVD MENU LANGUAGES	-	-
COMMUNICATION		
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■
eARC (W/ HDMI 2.1)	-	-
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	-	-
VRR (Variable Refresh Rate)	-	-
QMS (Quick Media Switching)	-	-
OPERATION		
ROCKER SWITCH	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)		
WALL HANGING KIT	☐	☐
CERTIFICATES		
WEEE COMPLIANT	■	■
ROHS COMPLIANT	■	■

MB180E	43"	50"	55"	58"	65"	70"	75"
	MB180E	MB180E	MB180E	MB180E	MB180E	MB180E	MB180E
MAIN FEATURES							
FULL HD	-	-	-	-	-	-	-
ULTRA HD	■	■	■	■	■	■	■
100HZ (FLICKER FREE)	-	-	-	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	□	□	□	□	□	□	□
LED EDGE BACK LIGHT (ELED)	□	□	□	-	○	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-	-	-	-
OLED	-	-	-	-	-	-	-
MPEG4	■	■	■	■	■	■	■
HEVC (H.265)	■	■	■	■	■	■	■
ISDB-TB	-	-	-	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-	-	-	-
3DTV	-	-	-	-	-	-	-
3DTV TYPE	-	-	-	-	-	-	-
2D - 3D CONVERSION	-	-	-	-	-	-	-
MEDIA PLAYER	■	■	■	■	■	■	■
PVR READY (USB RECORD)	□	□	□	□	□	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1	2.1	2.1	2.1	2.0	2.0
SCREEN FORMAT							
VISIBLE SCREEN SIZE	109	127	140	147	164	190	190
SCREEN FORMAT	16:9	16:9	16:9	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS							
TUNER VHF/UHF/CABLE	□	□	□	□	□	□	□
APS / ATS (AUTO SEARCH)	□	□	□	□	□	□	□
PROGRAM STORAGE CAPACITY (ANALOG)	200	200	200	200	200	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	□	□	□	□	□	□	□
NTSC	-	-	-	-	-	-	-
DUAL TUNER	-	-	-	-	-	-	-
UNICABLE	□	□	□	□	□	□	□
DISEQC	□	□	□	□	□	□	□
SOUND							
GER(D) + NICAM STEREO	□	□	□	□	□	□	□
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■	■	■	■	■	■
DDCO	-	-	-	-	-	-	-
MS10 (DOLBY)	-	-	-	-	-	-	-
MS11 (DOLBY)	-	-	-	-	-	-	-
MS12 (DOLBY)	■	■	■	■	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■	■	■	■	■
DOLBY ATMOS	□	□	□	□	□	□	□
DOLBY AC4	■	■	■	■	■	■	■
DTS TRUSURROUND	-	-	-	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-	-	-	-
DTS HD	-	-	-	-	-	-	-
DTS VIRTUAL:X	□	□	□	□	□	□	□
DTS:X	-	-	-	-	-	-	-
SURROUND SOUND	□	□	□	□	□	□	□
AUDIO OUTPUT POWER (RMS)	2x10W	2x10W	2x10W	2x10W	2x12W	2x12W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	12W	12W	12W	12W	12W	12W
PLAY-FI	-	-	-	-	-	-	-
CONNECTORS I/O							
RF: TV/CATV 75 OHMS COAXIAL	□	□	□	□	□	□	□
SCART (EUROCONNECTOR)	-	-	-	-	-	-	-
SVHS VIA SCART	-	-	-	-	-	-	-
RGB VIA SCART2	-	-	-	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	-	-	-	-	-	-	-

COMPOSITE VIDEO OUT	-	-	-	-	-	-	-
AUDIO LINE OUT	-	-	-	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■	■	■	■	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-	-	-	-
PC AUDIO IN	-	-	-	-	-	-	-
HDMI 1 (Side)	■	■	■	■	■	■	■
HDMI 2 (ARC) (Side)	■	■	■	■	■	■	■
HDMI 3 (Back)	□	□	□	□	□	□	□
HDMI 4	-	-	-	-	-	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2	2.2	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■	■	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	□	□	□	□	□	□	□
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	□	□	□	□	□	□	□
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-	-	-	-
INTERNAL SUBWOOFER	-	□	□	□	□	□	□
USB1 (2.0) (Side)	■	■	■	■	■	■	■
USB2 (2.0) (Side)	□	□	□	□	□	□	□
USB3 (2.0)	-	-	-	-	-	-	-
USB4 (2.0)	-	-	-	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	□	□	□	□	□	□	□
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-	-	-	-	-
RS232 (IN/OUT)	via HDMI 1	via HDMI 1	via HDMI 1	via HDMI 1	via HDMI 1	via VGA	via VGA
DIGITAL SW UPDATE	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)
PIP / PAP / PAT							
TV PICTURE IN PC (PC PIP)	-	-	-	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-	-	-	-
PICTURE							
ZOOM MODES (ASPECT RATIO)	■	■	■	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D	3D	3D	3D
CTI/LTI	■	■	■	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■	■	■	■
PSEUDO (SOFT) PIXELLENCE	-	-	-	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION) - G31	□	□	□	□	□	□	□
PICTURE WIZARD	-	-	-	-	-	-	-
HDR (HDR10, HLG)	■	■	■	■	■	■	■
DOLBY VISION HDR	□	□	□	□	□	□	□
HDR10+ - G31	□	□	□	□	□	□	□
BLUE STRETCH	□	□	□	□	□	□	□
MICRO DIMMING	□	□	□	□	□	□	□
DE-CONTOUR - G31	□	□	□	□	□	□	□
GAMUT MAPPING	□	□	□	□	□	□	□
SDR TO HDR	-	-	-	-	-	-	-
SUPER RESOLUTION	■	■	■	■	■	■	■
FILM MAKER MODE	-	-	-	-	-	-	-
DOLBY VISION IQ	-	-	-	-	-	-	-
AI	□	□	□	□	□	□	□
TEXT							
FAST TEXT	■	■	■	■	■	■	■

NUMBER OF TELETEXT PAGES	1000	1000	1000	1000	1000	1000	1000
CLOSED CAPTION	-	-	-	-	-	-	-
CONNECTIVITY FEATURES							
HBBTV (2.0.2)	□	□	□	□	□	□	□
FREEVIEW PLAY - G31	□	□	□	□	□	□	□
WIFI (VIA USB DONGLE)	-	-	-	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	-	-	-	-	-	-	-
4K SUPPORT (BY YOUTUBE VP9 2015)	□	□	□	□	□	□	□
DLNA 1.5	□	□	□	□	□	□	□
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-	-	-	-
BLUETOOTH	□	□	□	□	□	□	□
HOTEL TV	□	□	□	□	□	□	□
DIGITAL SIGNAGE	-	-	-	-	-	-	-
PORTAL SUPPORT	□	□	□	□	□	□	□
WIFI (INTERNAL)	□	□	□	□	□	□	□
OPEN INTERNET	□	□	□	□	□	□	□
BBC IPLAYER, NEWS, SPORTS, CRB - G31	□	□	□	□	□	□	□
NETFLIX	□	□	□	□	□	□	□
NETFLIX 4K	□	□	□	□	□	□	□
AMAZON PRIME VIDEO	□	□	□	□	□	□	□
AMAZON ALEXA READY (WORKS WITH ALEXA)	□	□	□	□	□	□	□
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-	-	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	□	□	□	□	□	□	□
SKY NOW TV	-	-	-	-	-	-	-
DISNEY+	-	-	-	-	-	-	-
MIRACAST	□	□	□	□	□	□	□
GOOGLECAST	-	-	-	-	-	-	-
INTEL WI-DI	□	□	□	□	□	□	□
WAKE UP ON LAN (WOLAN / WOWLAN)	□	□	□	□	□	□	□
CAMERA (MODULAR ACCESSORY)	-	-	-	-	-	-	-
WiFi 6	-	-	-	-	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-	-	-	-	-
ADDITIONAL FEATURES							
NTSC PLAYBACK	-	-	-	-	-	-	-
SLEEP TIMER	■	■	■	■	■	■	■
HOTEL MODE (PASSIVE)	■	■	■	■	■	■	■
CHILD LOCK	■	■	■	■	■	■	■
NO IDENT TIMER	■	■	■	■	■	■	■
TOUCH KEY PAD	-	-	-	-	-	-	-
TOUCH KEY PAD	□	□	□	□	□	□	□
USB CLONING	□	□	□	□	□	□	□
TOUCH SENSE	-	-	-	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-	-	-	-
AIR MOUSE	-	-	-	-	-	-	-
FEATURE OSD	□	□	□	□	□	□	□
ANIMATED FEATURE OSD	□	□	□	□	□	□	□
E-IB	□	□	□	□	□	□	□
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■	■	■	■	■
JOYSTICK (EXTERNAL TK)	□	□	□	□	□	□	□
ON / OFF (EXTERNAL TK)	□	□	□	□	□	□	□
DIGITAL (DVB)							
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800	800	800	800	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000	10000	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Persian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI
EPG (ELECTRONIC PROGRAM GUIDE)	☐	☐	☐	☐	☐	☐	☐
EPG NOW AND NEXT	-	-	-	-	-	-	-
EPG TIMELINE SCHEDULE	☐	☐	☐	☐	☐	☐	☐
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	☐	☐	☐	☐	☐	☐	☐
SMART CARD	-	-	-	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	☐	☐	☐	☐	☐	☐	☐
DVB APPROVALS							
FREEVIEW HD	☐	☐	☐	☐	☐	☐	☐
CABLE READY HD	☐	☐	☐	☐	☐	☐	☐
BOXER HD	☐	☐	☐	☐	☐	☐	☐
COMHEM	☐	☐	☐	☐	☐	☐	☐
ANTENNA HD READY	☐	☐	☐	☐	☐	☐	☐
CANAL READY	-	-	-	-	-	-	-
CI+	1.4	1.4	1.4	1.4	1.4	1.4	1.4
FREESAT HD	-	-	-	-	-	-	-
RIKS TV	☐	☐	☐	☐	☐	☐	☐
ZIGGO	☐	☐	☐	☐	☐	☐	☐
UPC	☐	☐	☐	☐	☐	☐	☐
D-SMART READY	☐	☐	☐	☐	☐	☐	☐
DIGITURK READY	-	-	-	-	-	-	-
ORF	☐	☐	☐	☐	☐	☐	☐
FRANSAT & FRANSAT CONNECT	☐	☐	☐	☐	☐	☐	☐
M7	☐	☐	☐	☐	☐	☐	☐
TELENET	☐	☐	☐	☐	☐	☐	☐
TDT HIBRIDA	-	-	-	-	-	-	-
FREEVIEW PLUS	☐	☐	☐	☐	☐	☐	☐
HD+	☐	☐	☐	☐	☐	☐	☐
R2	☐	☐	☐	☐	☐	☐	☐
LA TIVU	☐	☐	☐	☐	☐	☐	☐
LA TIVU 4K	-	-	-	-	-	-	-
MINDIG	☐	☐	☐	☐	☐	☐	☐
SAORVIEW	☐	☐	☐	☐	☐	☐	☐
SKY DEUTSCHLAND	☐	☐	☐	☐	☐	☐	☐
STOFA	☐	☐	☐	☐	☐	☐	☐
YOUSEE	☐	☐	☐	☐	☐	☐	☐
TKGS	☐	☐	☐	☐	☐	☐	☐
TIVIBU	☐	☐	☐	☐	☐	☐	☐
UNITYMEDIA	☐	☐	☐	☐	☐	☐	☐

DTVP	☐	☐	☐	☐	☐	☐	☐
VOO	☐	☐	☐	☐	☐	☐	☐
LEVIRA	☐	☐	☐	☐	☐	☐	☐
CRA	☐	☐	☐	☐	☐	☐	☐
LOVESTV	☐	☐	☐	☐	☐	☐	☐
SIMPLITY & SIMPLITY SAT	☐	☐	☐	☐	☐	☐	☐
EVOTV	-	-	-	-	-	-	-
NCA	☐	☐	☐	☐	☐	☐	☐
DIGITAL TV	-	-	-	-	-	-	-
POLSAT	-	-	-	-	-	-	-
EPT HYBRID	☐	☐	☐	☐	☐	☐	☐
DVD FEATURES							
CD COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DVD+R	-	-	-	-	-	-	-
DVD+RW	-	-	-	-	-	-	-
CD-AUDIO	-	-	-	-	-	-	-
KODAK PICTURE CD	-	-	-	-	-	-	-
DVD RAM	-	-	-	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-	-	-	-
PLAYBACK ZOOM	-	-	-	-	-	-	-
PARENTAL SETTINGS	-	-	-	-	-	-	-
REGION	-	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (COAXIAL) DTS COMPATIBLE	-	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTICAL) SPDIF DTS COMPATIBLE	-	-	-	-	-	-	-
SCREEN SAVER	-	-	-	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-	-	-	-
COMMUNICATION							
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	☐	☐	☐	☐	☐	☐	☐
eARC (W/ HDMI 2.1) - G31	☐	☐	☐	☐	☐	☐	☐
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	☐	☐	☐	☐	☐	☐	☐
VRR (Variable Refresh Rate)	-	-	-	-	-	-	-
QMS (Quick Media Switching)	-	-	-	-	-	-	-
OPERATION							
ROCKER SWITCH	☐	☐	☐	☐	☐	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)							
WALL HANGING KIT	☐	☐	☐	☐	☐	☐	☐
CERTIFICATES							
WEEE COMPLIANT	■	■	■	■	■	■	■
ROHS COMPLIANT	■	■	■	■	■	■	■

MB180Y	43"	50"	55"	58"	65"	70"	75"
	MB180Y	MB180Y	MB180Y	MB180Y	MB180Y	MB180Y	MB180Y
MAIN FEATURES							
FULL HD	-	-	-	-	-	-	-
ULTRA HD	■	■	■	■	■	■	■
100HZ (FLICKER FREE)	-	-	-	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	□	□	□	□	□	□	□
LED EDGE BACK LIGHT (ELED)	○	○	○	-	○	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-	-	-	-
OLED	-	-	-	-	-	-	-
MPEG4	■	■	■	■	■	■	■
HEVC (H.265)	■	■	■	■	■	■	■
ISDB-TB	-	-	-	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-	-	-	-
3DTV	-	-	-	-	-	-	-
3DTV TYPE	-	-	-	-	-	-	-
2D - 3D CONVERSION	-	-	-	-	-	-	-
MEDIA PLAYER	■	■	■	■	■	■	■
PVR READY (USB RECORD)	□	□	□	□	□	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1	2.1	2.1	2.1	2.0	2.0
SCREEN FORMAT							
VISIBLE SCREEN SIZE	109	127	140	147	164	190	190
SCREEN FORMAT	16:9	16:9	16:9	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS							
TUNER VHF/UHF/CABLE	□	□	□	□	□	□	□
APS / ATS (AUTO SEARCH)	□	□	□	□	□	□	□
PROGRAM STORAGE CAPACITY (ANALOG)	200	200	200	200	200	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	□	□	□	□	□	□	□
NTSC	-	-	-	-	-	-	-
DUAL TUNER	-	-	-	-	-	-	-
UNICABLE	□	□	□	□	□	□	□
DISEQC	□	□	□	□	□	□	□
SOUND							
GER(D) + NICAM STEREO	□	□	□	□	□	□	□
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■	■	■	■	■	■
DDCO	-	-	-	-	-	-	-
MS10 (DOLBY)	-	-	-	-	-	-	-
MS11 (DOLBY)	-	-	-	-	-	-	-
MS12 (DOLBY)	n	n	n	n	n	n	n
DOLBY AUDIO PROCESSING (DAP)	n	n	n	n	n	n	n
DOLBY ATMOS	○	○	○	○	○	○	○
DOLBY AC4	n	n	n	n	n	n	n
DTS TRUSURROUND	-	-	-	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-	-	-	-
DTS HD	-	-	-	-	-	-	-
DTS VIRTUAL:X	□	□	□	□	□	□	□
DTS:X	-	-	-	-	-	-	-
SURROUND SOUND	□	□	□	□	□	□	□
AUDIO OUTPUT POWER (RMS)	2x8W	2x10W	2x10W	2x10W	2x12W	2x12W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	12W	12W	12W	12W	12W	12W
PLAY-FI	-	-	-	-	-	-	-
CONNECTORS I/O							
RF: TV/CATV 75 OHMS COAXIAL	□	□	□	□	□	□	□
SCART (EUROCONNECTOR)	-	-	-	-	-	-	-
SVHS VIA SCART	-	-	-	-	-	-	-
RGB VIA SCART2	-	-	-	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	-	-	-	-	-	-	-

COMPOSITE VIDEO OUT	-	-	-	-	-	-	-
AUDIO LINE OUT	-	-	-	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■	■	■	■	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-	-	-	-
PC AUDIO IN	-	-	-	-	-	-	-
HDMI 1 (Side)	■	■	■	■	■	■	■
HDMI 2 (ARC) (Side)	■	■	■	■	■	■	■
HDMI 3 (Back)	□	□	□	□	□	□	□
HDMI 4	-	-	-	-	-	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2	2.2	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■	■	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	□	□	□	□	□	□	□
HEADPHONE OUT (HEADPHONE VOL. CONTROL SUPPORT DUAL CHANNELS)	□	□	□	□	□	□	□
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-	-	-	-
INTERNAL SUBWOOFER	-	□	□	□	□	□	□
USB1 (2.0) (Side)	■	■	■	■	■	■	■
USB2 (2.0) (Side)	□	□	□	□	□	□	□
USB3 (2.0)	-	-	-	-	-	-	-
USB4 (2.0)	-	-	-	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	□	□	□	□	□	□	□
SMART PORT-INTERACTIVE READY HOTEL TV APP. RJ12	-	-	-	-	-	-	-
RS232 (IN/OUT)	via HDMI 1	via HDMI 1	via HDMI 1	via HDMI 1	via HDMI 1	via VGA	via VGA
DIGITAL SW UPDATE	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)
PIP / PAP / PAT							
TV PICTURE IN PC (PC PIP)	-	-	-	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-	-	-	-
PICTURE							
ZOOM MODES (ASPECT RATIO)	■	■	■	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D	3D	3D	3D
CTI/LTI	■	■	■	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■	■	■	■
PSEUDO (SOFT) PIXELLENCE	-	-	-	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION) - G31	□	□	□	□	□	□	□
PICTURE WIZARD	-	-	-	-	-	-	-
HDR (HDR10, HLG)	■	■	■	■	■	■	■
DOLBY VISION HDR	□	□	□	□	□	□	□
HDR10+ - G31	□	□	□	□	□	□	□
BLUE STRETCH	□	□	□	□	□	□	□
MICRO DIMMING	□	□	□	□	□	□	□
DE-CONTOUR - G31	□	□	□	□	□	□	□
GAMUT MAPPING	□	□	□	□	□	□	□
SDR TO HDR	-	-	-	-	-	-	-
SUPER RESOLUTION	■	■	■	■	■	■	■
FILM MAKER MODE	-	-	-	-	-	-	-
DOLBY VISION IQ	-	-	-	-	-	-	-
AI	o	o	o	o	o	o	o
TEXT							
FAST TEXT	■	■	■	■	■	■	■

NUMBER OF TELETEXT PAGES	1000	1000	1000	1000	1000	1000	1000
CLOSED CAPTION	-	-	-	-	-	-	-
CONNECTIVITY FEATURES							
HBBTV (2.0.2)	☐	☐	☐	☐	☐	☐	☐
FREEVIEW PLAY - G31	☐	☐	☐	☐	☐	☐	☐
WIFI (VIA USB DONGLE)	-	-	-	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	-	-	-	-	-	☐	☐
4K SUPPORT (BY YOUTUBE VP9 2015)	☐	☐	☐	☐	☐	☐	☐
DLNA 1.5	☐	☐	☐	☐	☐	☐	☐
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-	-	-	-
BLUETOOTH	☐	☐	☐	☐	☐	☐	☐
HOTEL TV	☐	☐	☐	☐	☐	☐	☐
DIGITAL SIGNAGE	-	-	-	-	-	-	-
PORTAL SUPPORT	☐	☐	☐	☐	☐	☐	☐
WIFI (INTERNAL)	☐	☐	☐	☐	☐	☐	☐
OPEN INTERNET	☐	☐	☐	☐	☐	☐	☐
BBC IPLAYER, NEWS, SPORTS, CRB - G31	☐	☐	☐	☐	☐	☐	☐
NETFLIX	☐	☐	☐	☐	☐	☐	☐
NETFLIX 4K	☐	☐	☐	☐	☐	☐	☐
AMAZON PRIME VIDEO	☐	☐	☐	☐	☐	☐	☐
AMAZON ALEXA READY (WORKS WITH ALEXA)	☐	☐	☐	☐	☐	☐	☐
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	☐	☐	☐	☐	☐	☐	☐
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	☐	☐	☐	☐	☐	☐	☐
SKY NOW TV	-	-	-	-	-	-	-
DISNEY+	-	-	-	-	-	-	-
MIRACAST	☐	☐	☐	☐	☐	☐	☐
GOOGLECAST	-	-	-	-	-	-	-
INTEL WI-DI	☐	☐	☐	☐	☐	☐	☐
WAKE UP ON LAN (WOLAN / WOWLAN)	☐	☐	☐	☐	☐	☐	☐
CAMERA (MODULAR ACCESSORY)	-	-	-	-	-	-	-
WiFi 6	-	-	-	-	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-	-	-	-	-
ADDITIONAL FEATURES							
NTSC PLAYBACK	-	-	-	-	-	-	-
SLEEP TIMER	☒	☒	☒	☒	☒	☒	☒
HOTEL MODE (PASSIVE)	☒	☒	☒	☒	☒	☒	☒
CHILD LOCK	☒	☒	☒	☒	☒	☒	☒
NO IDENT TIMER	☒	☒	☒	☒	☒	☒	☒
TOUCH KEY PAD	-	-	-	-	-	-	-
ONBOARD TACT SWITCH	☐	☐	☐	☐	☐	☐	☐
USB CLONING	☐	☐	☐	☐	☐	☐	☐
TOUCH SENSE	-	-	-	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-	-	-	-
AIR MOUSE	-	-	-	-	-	-	-
FEATURE OSD	☐	☐	☐	☐	☐	☐	☐
ANIMATED FEATURE OSD	☐	☐	☐	☐	☐	☐	☐
E-IB	☐	☐	☐	☐	☐	☐	☐
STR (SUSPEND TO RAM = INSTANT ON)	☒	☒	☒	☒	☒	☒	☒
JOYSTICK (EXTERNAL TK)	☐	☐	☐	☐	☐	☐	☐
ON / OFF (EXTERNAL TK)	☐	☐	☐	☐	☐	☐	☐
DIGITAL (DVB)							
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800	800	800	800	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000	10000	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Czech, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Czech, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Czech, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Czech, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Czech, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Czech, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Czech, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI
EPG (ELECTRONIC PROGRAM GUIDE)	☐	☐	☐	☐	☐	☐	☐	☐
EPG NOW AND NEXT	-	-	-	-	-	-	-	-
EPG TIMELINE SCHEDULE	☐	☐	☐	☐	☐	☐	☐	☐
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	☐	☐	☐	☐	☐	☐	☐	☐
SMART CARD	-	-	-	-	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	☐	☐	☐	☐	☐	☐	☐	☐
DVB APPROVALS								
FREEVIEW HD	☐	☐	☐	☐	☐	☐	☐	☐
CABLE READY HD	☐	☐	☐	☐	☐	☐	☐	☐
BOXER HD	☐	☐	☐	☐	☐	☐	☐	☐
COMHEM	☐	☐	☐	☐	☐	☐	☐	☐
ANTENNA HD READY	☐	☐	☐	☐	☐	☐	☐	☐
CANAL READY	-	-	-	-	-	-	-	-
CI+	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
FREESAT HD	-	-	-	-	-	-	-	-
RIKS TV	☐	☐	☐	☐	☐	☐	☐	☐
ZIGGO	☐	☐	☐	☐	☐	☐	☐	☐
UPC	☐	☐	☐	☐	☐	☐	☐	☐
D-SMART READY	☐	☐	☐	☐	☐	☐	☐	☐
DIGITURK READY	-	-	-	-	-	-	-	-
ORF	☐	☐	☐	☐	☐	☐	☐	☐
FRANSAT & FRANSAT CONNECT	☐	☐	☐	☐	☐	☐	☐	☐
M7	☐	☐	☐	☐	☐	☐	☐	☐
TELENET	☐	☐	☐	☐	☐	☐	☐	☐
TDI HIBRIDA	-	-	-	-	-	-	-	-
FREEVIEW PLUS	☐	☐	☐	☐	☐	☐	☐	☐
HD+	☐	☐	☐	☐	☐	☐	☐	☐
R2	☐	☐	☐	☐	☐	☐	☐	☐
LA TIVU	☐	☐	☐	☐	☐	☐	☐	☐
LA TIVU 4K	-	-	-	-	-	-	-	-
MINDIG	☐	☐	☐	☐	☐	☐	☐	☐
SAORVIEW	☐	☐	☐	☐	☐	☐	☐	☐
SKY DEUTSCHLAND	☐	☐	☐	☐	☐	☐	☐	☐
STOFA	☐	☐	☐	☐	☐	☐	☐	☐
YOUSEE	☐	☐	☐	☐	☐	☐	☐	☐
TKGS	☐	☐	☐	☐	☐	☐	☐	☐
TIVIBU	☐	☐	☐	☐	☐	☐	☐	☐
UNITYMEDIA	☐	☐	☐	☐	☐	☐	☐	☐
DTVP	☐	☐	☐	☐	☐	☐	☐	☐

VOO	☐	☐	☐	☐	☐	☐	☐
LEVIRA	☐	☐	☐	☐	☐	☐	☐
CRA	☐	☐	☐	☐	☐	☐	☐
LOVESTV	☐	☐	☐	☐	☐	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐	☐	☐	☐	☐	☐
EVOTV	-	-	-	-	-	-	-
NCA	☐	☐	☐	☐	☐	☐	☐
DIGITAL TV	-	-	-	-	-	-	-
POLSAT	-	-	-	-	-	-	-
EPT HYBRID	☐	☐	☐	☐	☐	☐	☐
DVD FEATURES							
CD COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
DVD+R	-	-	-	-	-	-	-
DVD+RW	-	-	-	-	-	-	-
CD-AUDIO	-	-	-	-	-	-	-
KODAK PICTURE CD	-	-	-	-	-	-	-
DVD RAM	-	-	-	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-	-	-	-
PLAYBACK ZOOM	-	-	-	-	-	-	-
PARENTAL SETTINGS	-	-	-	-	-	-	-
REGION	-	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (COAXIAL) DTS COMPATIBLE	-	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTICAL) SPDIF DTS COMPATIBLE	-	-	-	-	-	-	-
SCREEN SAVER	-	-	-	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-	-	-	-
COMMUNICATION							
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	☐	☐	☐	☐	☐	☐	☐
eARC (W/ HDMI 2.1) - G31	☐	☐	☐	☐	☐	☐	☐
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	☐	☐	☐	☐	☐	☐	☐
VRR (Variable Refresh Rate)	-	-	-	-	-	-	-
QMS (Quick Media Switching)	-	-	-	-	-	-	-
OPERATION							
ROCKER SWITCH	☐	☐	☐	☐	☐	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)							
WALL HANGING KIT	☐	☐	☐	☐	☐	☐	☐
CERTIFICATES							
WEEE COMPLIANT	■	■	■	■	■	■	■
ROHS COMPLIANT	■	■	■	■	■	■	■

MB180EB	55"	65"
	MB180EB	MB180EB
MAIN FEATURES		
FULL HD	-	-
ULTRA HD	■	■
100HZ (FLICKER FREE)	□	□
LED DIRECT BACK LIGHT (DLED)	□	□
LED EDGE BACK LIGHT (ELED)	□	□
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-
OLED	■	■
MPEG4	■	■
HEVC (H.265)	■	■
ISDB-TB	-	-
TV-DVD PLAYER COMBI	-	-
3DTV	-	-
3DTV TYPE	-	-
2D - 3D CONVERSION	-	-
MEDIA PLAYER	■	■
PVR READY (USB RECORD)	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1
SCREEN FORMAT		
VISIBLE SCREEN SIZE	140	164
SCREEN FORMAT	16:9	16:9
RECEPTION & TUNING SYSTEMS		
TUNER VHF/UHF/CABLE	□	□
APS / ATS (AUTO SEARCH)	□	□
PROGRAM STORAGE CAPACITY (ANALOG)	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	□	□
NTSC	-	-
DUAL TUNER	-	-
UNICABLE	□	□
DISEQC	□	□
SOUND		
GER(D) + NICAM STEREO	□	□
EQUALIZER (5 BAND)	5 band	5 band
BASS / TREBLE	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■
DDCO	-	-
MS10 (DOLBY)	-	-
MS11 (DOLBY)	-	-
MS12 (DOLBY)	■	■
DOLBY AUDIO PROCESSING (DAP)	-	-
DOLBY ATMOS	■	■
DOLBY AC4	■	■
DTS TRUSURROUND	-	-
DTS 2.0+ DIGITAL OUT	-	-
DTS HD	■	■
DTS VIRTUAL:X	■	■
DTS:X	-	-
SURROUND SOUND	■	■
AUDIO OUTPUT POWER (RMS)	2x12W	2x12W *
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	12W	12W
PLAY-FI	-	-
CONNECTORS I/O		
RF: TV/CATV 75 OHMS COAXIAL	□	□
SCART (EUROCONNECTOR)	-	-
SVHS VIA SCART	-	-
RGB VIA SCART2	-	-
COMPOSITE VIDEO/AUDIO IN	-	-

COMPOSITE VIDEO OUT	-	-
AUDIO LINE OUT	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-
YPBPR (COMPONENT) IN	-	-
YPBPR IN VIA VGA	-	-
VGA (PC IN: D-SUB15)	-	-
PC AUDIO IN	-	-
HDMI 1 (Side)	■	■
HDMI 2 (ARC) (Side)	■	■
HDMI 3 (Back)	□	□
HDMI 4	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	□	□
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	□	□
SUBWOOFER LINE OUT (PASSIVE)	-	-
INTERNAL SUBWOOFER	□	□
USB1 (2.0) (Side)	■	■
USB2 (2.0) (Side)	□	□
USB3 (2.0)	-	-
USB4 (2.0)	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	□	□
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-
RS232 (IN/OUT)	via HDMI 1	via HDMI 1
DIGITAL SW UPDATE	USB (Single SW)	USB (Single SW)
PIP / PAP / PAT		
TV PICTURE IN PC (PC PIP)	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-
PICTURE AND PICTURE (PAP)	-	-
PICTURE AND TELETEXT (PAT)	-	-
PICTURE		
ZOOM MODES (ASPECT RATIO)	■	■
COMB FILTER (2D / 3D)	3D	3D
CTI/LTI	■	■
DIGITAL NOISE REDUCTION	■	■
PSEUDO (SOFT) PIXELLENCE	-	-
DYNAMIC CONTRAST	■	■
PROGRESSIVE SCAN	■	■
ME/MC (MOTION ESTIMATION - MOTION COMPENSATION) - G31	■	■
PICTURE WIZARD	-	-
HDR (HDR10, HLG)	■	■
DOLBY VISION HDR	■	■
HDR10+ - G31	■	■
BLUE STRETCH	■	■
MICRO DIMMING	■	■
DE-CONTOUR - G31	■	■
GAMUT MAPPING	■	■
SDR TO HDR	-	-
SUPER RESOLUTION	■	■
FILM MAKER MODE	□	□
DOLBY VISION IQ	-	-
AI	□	□
TEXT		
FAST TEXT	■	■
NUMBER OF TELETEXT PAGES	1000	1000
CLOSED CAPTION	-	-

CONNECTIVITY FEATURES		
HBBTV (2.0.2)	☐	☐
FREEVIEW PLAY - G31	☐	☐
WIFI (VIA USB DONGLE)	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	-	-
4K SUPPORT (BY YOUTUBE VP9 2015)	☐	☐
DLNA 1.5	☐	☐
MHL VIA HDMI (MOBILE HD LINK)	-	-
BLUETOOTH	☐	☐
HOTEL TV	☐	☐
DIGITAL SIGNAGE	-	-
PORTAL SUPPORT	☐	☐
WIFI (INTERNAL)	☐	☐
OPEN INTERNET	☐	☐
BBC IPLAYER, NEWS, SPORTS, CRB - G31	☐	☐
NETFLIX	■	■
NETFLIX 4K	■	■
AMAZON PRIME VIDEO	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	☐	☐
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	☐	☐
SKY NOW TV	-	-
DISNEY+	-	-
MIRACAST	☐	☐
GOOGLECAST	-	-
INTEL WI-DI	☐	☐
WAKE UP ON LAN (WOLAN / WOWLAN)	☐	☐
CAMERA (MODULAR ACCESORY)	-	-
WiFi 6	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-
ADDITIONAL FEATURES		
NTSC PLAYBACK	Via Back AV	Via Back AV
SLEEP TIMER	■	■
HOTEL MODE (PASSIVE)	■	■
CHILD LOCK	■	■
NO IDENT TIMER	■	■
TOUCH KEY PAD	-	-
ONBOARD TACT SWITCH	-	-
USB CLONING	☐	☐
TOUCH SENSE	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-
AIR MOUSE	-	-
FEATURE OSD	☐	☐
ANIMATED FEATURE OSD	☐	☐
E-IB	☐	☐
STR (SUSPEND TO RAM = INSTANT ON)	■	■
JOYSTICK (EXTERNAL TK)	☐	☐
ON / OFF (EXTERNAL TK)	-	-
DIGITAL (DVB)		
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI
EPG (ELECTRONIC PROGRAM GUIDE)	☐	☐
EPG NOW AND NEXT	-	-
EPG TIMELINE SCHEDULE	☐	☐
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	☐	☐
SMART CARD	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	☐	☐
DVB APPROVALS		
FREEVIEW HD	☐	☐
CABLE READY HD	☐	☐
BOXER HD	☐	☐
COMHEM	☐	☐
ANTENNA HD READY	☐	☐
CANAL READY	-	-
CI+	1.4	1.4
FREESAT HD	-	-
RIKS TV	☐	☐
ZIGGO	☐	☐
UPC	☐	☐
D-SMART READY	☐	☐
DIGITURK READY	-	-
ORF	☐	☐
FRANSAT & FRANSAT CONNECT	☐	☐
M7	☐	☐
TELENET	☐	☐
TDT HIBRIDA	-	-
FREEVIEW PLUS	o	o
HD+	o	o
R2	o	o
LA TIVU	o	o
LA TIVU 4K	-	-
MINDIG	☐	☐
SAORVIEW	☐	☐
SKY DEUTSCHLAND	☐	☐
STOFA	☐	☐
YOUSEE	☐	☐
TKGS	☐	☐
TIVIBU	☐	☐
UNITYMEDIA	☐	☐
DTVP	☐	☐

VOO	☐	☐
LEVIRA	☐	☐
CRA	☐	☐
LOVESTV	☐	☐
SIMPLITY & SIMPLITY SAT	☐	☐
EVOTV	-	-
NCA	☐	☐
DIGITAL TV	-	-
POLSAT	-	-
EPT HYBRID	☐	☐
DVD FEATURES		
CD COMPATIBLE PLAYBACK	-	-
DVD COMPATIBLE PLAYBACK	-	-
CD-R COMPATIBLE PLAYBACK	-	-
CD-RW COMPATIBLE PLAYBACK	-	-
DVD-R COMPATIBLE PLAYBACK	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-
MP3 COMPATIBLE PLAYBACK	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-
SACD COMPATIBLE PLAYBACK	-	-
S-VHS COMPATIBLE PLAYBACK	-	-
DVD+R	-	-
DVD+RW	-	-
CD-AUDIO	-	-
KODAK PICTURE CD	-	-
DVD RAM	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-
MULTIPLE LANGUAGE OPTIONS	-	-
MULTIPLE CAMERA ANGLES	-	-
PLAYBACK ZOOM	-	-
PARENTAL SETTINGS	-	-
REGION	-	-
DIGITAL AUDIO OUTPUT (COAXIAL) DTS COMPATIBLE	-	-
DIGITAL AUDIO OUTPUT (OPTICAL) SPDIF DTS COMPATIBLE	-	-
SCREEN SAVER	-	-
TRANSPARENCY LEVELS	-	-
RETURN TO FACTORY SETTINGS	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-
DVD MENU LANGUAGES	-	-
COMMUNICATION		
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	☐	☐
eARC (W/ HDMI 2.1) - G31	☐	☐
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	☐	☐
VRR (Variable Refresh Rate)	-	-
QMS (Quick Media Switching)	-	-
OPERATION		
ROCKER SWITCH	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)		
WALL HANGING KIT	☐	☐
CERTIFICATES		
WEEE COMPLIANT	■	■
ROHS COMPLIANT	■	■
* 65" Mini LED TV Audio Output: 2x8W wo/subwoofer		

MB180V	43"	50"	55"	65"
	MB180V	MB180V	MB180V	MB180V
MAIN FEATURES				
FULL HD	-	-	-	-
ULTRA HD	■	■	■	■
100HZ (FLICKER FREE)	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	■	■	■	■
LED EDGE BACK LIGHT (ELED)	-	-	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-
OLED	-	-	-	-
MPEG4	■	■	■	■
HEVC (H.265)	■	■	■	■
ISDB-TB	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-
3DTV	-	-	-	-
3DTV TYPE	-	-	-	-
2D - 3D CONVERSION	-	-	-	-
MEDIA PLAYER	■	■	■	■
PVR READY (USB RECORD)	□	□	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1	2.1	2.1
SCREEN FORMAT				
VISIBLE SCREEN SIZE	109	127	140	164
SCREEN FORMAT	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS				
TUNER VHF/UHF/CABLE	■	■	■	■
APS / ATS (AUTO SEARCH)	■	■	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■	■	■
NTSC	-	-	-	-
DUAL TUNER	-	-	-	-
UNICABLE	■	■	■	■
DISEQC	■	■	■	■
SOUND				
GER(D) + NICAM STEREO	■	■	■	■
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■	■	■
DDCO	-	-	-	-
MS10 (DOLBY)	-	-	-	-
MS11 (DOLBY)	-	-	-	-
MS12 (DOLBY)	■	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■	■
DOLBY ATMOS	-	-	-	-
DOLBY AC4	■	■	■	■
DTS TRUSURROUND	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-
DTS HD	□	□	□	□
DTS VIRTUAL:X	□	□	□	□
DTS:X	-	-	-	-
SURROUND SOUND	■	■	■	■
AUDIO OUTPUT POWER (RMS)	2x8W	2x10W	2x10W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	-	-	-
PLAY-FI	-	-	-	-
CONNECTORS I/O				
RF: TV/CATV 75 OHMS COAXIAL	■	■	■	■
SCART (EUROCONNECTOR)	-	-	-	-
SVHS VIA SCART	-	-	-	-
RGB VIA SCART2	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	■	■	■	■

COMPOSITE VIDEO OUT	-	-	-	-
AUDIO LINE OUT	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	-	-	-	-
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-
PC AUDIO IN	-	-	-	-
HDMI 1 (Side)	■	■	■	■
HDMI 2 (ARC) (Back)	■	■	■	■
HDMI 3 (Back)	□	□	□	□
HDMI 4	-	-	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	□	□	□	□
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	□	□	□	□
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	■	■	■	■
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-
INTERNAL SUBWOOFER	-	-	-	-
USB1 (2.0) (Side)	■	■	■	■
USB2 (2.0) (Side)	□	□	□	□
USB3 (2.0)	-	-	-	-
USB4 (2.0)	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45	■	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-	-
RS232 (IN/OUT)	via HDMI side	via HDMI side	via HDMI side	via HDMI side
DIGITAL SW UPDATE	USB & LAN	USB & LAN	USB & LAN	USB & LAN
PIP / PAP / PAT				
TV PICTURE IN PC (PC PIP)	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-
PICTURE IN PICTURE (2 ANALOGUE TUNER PIP)	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-
PICTURE				
ZOOM MODES (ASPECT RATIO)	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D
CTI/LTI	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■
PSEUDO (SOFT) PIXELLENCE	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■
ME/MC (MOTION ESTIMATION MOTION COMPENSATION)	-	-	-	-
PICTURE WIZARD	-	-	-	-
HDR (HDR10, HLG)	■	■	■	■
DOLBY VISION HDR	□	□	□	□
HDR10+	-	-	-	-
BLUE STRETCH	-	-	-	-
MICRO DIMMING	-	-	-	-
DE-CONTOUR	-	-	-	-
GAMUT MAPPING	■	■	■	■
SDR TO HDR	-	-	-	-
SUPER RESOLUTION	■	■	■	■
FILM MAKER MODE	-	-	-	-
DOLBY VISION IQ	-	-	-	-
AI	-	-	-	-
TEXT				
FAST TEXT	-	-	-	-
NUMBER OF TELETEXT PAGES	-	-	-	-

CLOSED CAPTION	-	-	-	-
CONNECTIVITY FEATURES				
HBBTV (2.0.2)	■	■	■	■
FREEVIEW PLAY	■	■	■	■
WIFI (VIA USB DONGLE)	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	□	□	□	□
DLNA 1.5	-	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-
BLUETOOTH	□	□	□	□
HOTEL TV	-	-	-	-
DIGITAL SIGNAGE	-	-	-	-
PORTAL SUPPORT	■	■	■	■
WIFI (INTERNAL)	■	■	■	■
OPEN INTERNET	■	■	■	■
BBC IPLAYER, NEWS, SPORTS, CRB	■	■	■	■
NETFLIX	■	■	■	■
NETFLIX 4K	□	□	□	□
AMAZON PRIME VIDEO	■	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	■	■	■	■
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-	-
SKY NOW TV	■	■	■	■
DISNEY+	■	■	■	■
MIRACAST	■	■	■	■
GOOGLECAST	-	-	-	-
INTEL WI-DI	-	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	-	-
WiFi 6	-	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-	-
ADDITIONAL FEATURES				
NTSC PLAYBACK	side AV	side AV	side AV	side AV
SLEEP TIMER	■	■	■	■
HOTEL MODE (PASSIVE)	■	■	■	■
CHILD LOCK	■	■	■	■
NO IDENT TIMER	■	■	■	■
TOUCH KEY PAD	-	-	-	-
ONBOARD TACT SWITCH	□	□	□	□
USB CLONING	■	■	■	■
TOUCH SENSE	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-
AIR MOUSE	-	-	-	-
FEATURE OSD	■	■	■	■
ANIMATED FEATURE OSD	-	-	-	-
E-IB	■	■	■	■
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■	■
JOYSTICK (EXTERNAL TK)	-	-	-	-
ON / OFF (EXTERNAL TK)	□	□	□	□
DIGITAL (DVB)				
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■	■
EPG NOW AND NEXT	■	■	■	■
EPG TIMELINE SCHEDULE	■	■	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■	■
SMART CARD	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■	■
DVB APPROVALS				
FREEVIEW HD	■	■	■	■
CABLE READY HD	■	■	■	■
BOXER HD	■	■	■	■
COMHEM	■	■	■	■
ANTENNA HD READY	■	■	■	■
CANAL READY	-	-	-	-
CI+	1.4	1.4	1.4	1.4
FREESAT HD	-	-	-	-
RIKS TV	■	■	■	■
ZIGGO	■	■	■	■
UPC	■	■	■	■
D-SMART READY	■	■	■	■
DIGITURK READY	-	-	-	-
ORF	-	-	-	-
FRANSAT & FRANSAT CONNECT	■	■	■	■
M7	-	-	-	-
TELENET	■	■	■	■
TDT HIBRIDA	■	■	■	■
FREEVIEW PLAY	■	■	■	■
HD+	■	■	■	■
R2	-	-	-	-
LA TIVU	■	■	■	■
LA TIVU 4K	■	■	■	■
MINDIG	-	-	-	-
SAORVIEW	■	■	■	■
SKY DEUTSCHLAND	-	-	-	-
STOFA	■	■	■	■
YOUSEE	■	■	■	■
TKGS	■	■	■	■
TIVIBU	■	■	■	■
UNITYMEDIA/Vodafone	■	■	■	■
DTVP	■	■	■	■
VOO	-	-	-	-

LEVIRA	■	■	■	■
CRA	■	■	■	■
LOVESTV	■	■	■	■
SIMPLITV & SIMPLITV SAT	■	■	■	■
EVOTV	NA	NA	NA	NA
NCA	NA	NA	NA	NA
DIGITAL TV	NA	NA	NA	NA
POLSAT	NA	NA	NA	NA
EPT HYBRID	NA	NA	NA	NA
DVD FEATURES				
CD COMPATIBLE PLAYBACK	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-
DVD+R	-	-	-	-
DVD+RW	-	-	-	-
CD-AUDIO	-	-	-	-
KODAK PICTURE CD	-	-	-	-
DVD RAM	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-
PLAYBACK ZOOM	-	-	-	-
PARENTAL SETTINGS	-	-	-	-
REGION	-	-	-	-
DIGITAL AUDIO OUTPUT (COAXIAL) DTS COMPATIBLE	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTICAL) SPDIF DTS COMPATIBLE	-	-	-	-
SCREEN SAVER	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-
COMMUNICATION				
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■	■
eARC (W/ HDMI 2.1)	-	-	-	-
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1)	-	-	-	-
VRR (Variable Refresh Rate)	-	-	-	-
QMS (Quick Media Switching)	-	-	-	-
OPERATION				
ROCKER SWITCH	□	□	□	□
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)				
WALL HANGING KIT	□	□	□	□
CERTIFICATES				
WEEE COMPLIANT	■	■	■	■
ROHS COMPLIANT	■	■	■	■

MB181	24"	32"
	MB181	MB181
MAIN FEATURES		
FULL HD	-	□
ULTRA HD	-	-
100HZ (FLICKER FREE)	-	-
LED DIRECT BACK LIGHT (DLED)	-	■
LED EDGE BACK LIGHT (ELED)	n	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-
OLED	-	-
MPEG4	■	■
HEVC (H.265)	■	■
ISDB-TB	-	-
TV-DVD PLAYER COMBI	□	□
3DTV	-	-
3DTV TYPE	-	-
2D - 3D CONVERSION	-	-
MEDIA PLAYER	■	■
PVR READY (USB RECORD)	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	1.4	1.4
SCREEN FORMAT		
VISIBLE SCREEN SIZE	61	81
SCREEN FORMAT	16:9	16:9
RECEPTION & TUNING SYSTEMS		
TUNER VHF/UHF/CABLE	■	■
APS / ATS (AUTO SEARCH)	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■
NTSC	-	-
DUAL TUNER	-	-
UNICABLE	□	□
DISEQC	□	□
SOUND		
GER(D) + NICAM STEREO	■	■
EQUALIZER (5 BAND)	5 band	5 band
BASS / TREBLE	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■
DDCO	-	-
MS10 (DOLBY)	-	-
MS11 (DOLBY)	-	-
MS12 (DOLBY)	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■
DOLBY ATMOS	-	-
DOLBY AC4	■	■
DTS TRUSURROUND	-	-
DTS 2.0+ DIGITAL OUT	-	-
DTS HD	□	□
DTS VIRTUAL:X	□	□
DTS:X	-	-
SURROUND SOUND	■	■
AUDIO OUTPUT POWER (RMS)	2x2.5W	2x6W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	-
PLAY-FI	-	-
CONNECTORS I/O		
RF: TV/CATV 75 OHMS COAXIAL	■	■
SCART (EUROCONNECTOR)	-	-
SVHS VIA SCART	-	-
RGB VIA SCART2	-	-
COMPOSITE VIDEO/AUDIO IN	■	■

COMPOSITE VIDEO OUT	-	-
AUDIO LINE OUT	-	-
AUDIO LINE OUT VIA HEADPHONE	□	□
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-
YPBPR (COMPONENT) IN	-	-
YPBPR IN VIA VGA	-	-
VGA (PC IN: D-SUB15)	-	-
PC AUDIO IN	-	-
HDMI 1 (Side)	■	■
HDMI 2 (ARC) (Back)	■	■
HDMI 3 (Back)	-	-
HDMI 4	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	■	■
DIGITAL AUDIO OUTPUT (OPTIC)	-	-
HEADPHONE OUT (MAIN VOLUME CONTROL)	□	□
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	■	■
SUBWOOFER LINE OUT (PASSIVE)	-	-
INTERNAL SUBWOOFER	-	-
USB1 (2.0) (Side)	■	■
USB2 (2.0) (Side)	-	-
USB3 (2.0)	-	-
USB4 (2.0)	-	-
LAN-ETHERNET (IEEE 802.3) RJ45	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-
RS232 (IN/OUT)	via HDMI side	via HDMI side
DIGITAL SW UPDATE	USB & LAN	USB & LAN
PIP / PAP / PAT		
TV PICTURE IN PC (PC PIP)	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-
PICTURE IN PICTURE (2 ANALOGUE TUNER PIP)	-	-
PICTURE AND PICTURE (PAP)	-	-
PICTURE AND TELETEXT (PAT)	-	-
PICTURE		
ZOOM MODES (ASPECT RATIO)	■	■
COMB FILTER (2D / 3D)	3D	3D
CTI/LTI	■	■
DIGITAL NOISE REDUCTION	■	■
PSEUDO (SOFT) PIXELLENCE	-	-
DYNAMIC CONTRAST	■	■
PROGRESSIVE SCAN	■	■
ME/MC (MOTION ESTIMATION MOTION COMPENSATION)	-	-
PICTURE WIZARD	-	-
HDR (HDR10, HLG)	■	■
DOLBY VISION HDR	-	-
HDR10+	-	-
BLUE STRETCH	■	■
MICRO DIMMING	■	■
DE-CONTOUR	-	-
GAMUT MAPPING	-	-
SDR TO HDR	-	-
SUPER RESOLUTION	■	■
FILM MAKER MODE	-	-
DOLBY VISION IQ	-	-
AI		
TEXT		
FAST TEXT	■	■
NUMBER OF TELETEXT PAGES	1000	1000
CLOSED CAPTION	-	-

CONNECTIVITY FEATURES		
HBBTV (2.0.2)	■	■
FREEVIEW PLAY	■	■
WIFI (VIA USB DONGLE)	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	-	-
DLNA 1.5	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-
BLUETOOTH	□	□
HOTEL TV	-	-
DIGITAL SIGNAGE	-	-
PORTAL SUPPORT	■	■
WIFI (INTERNAL)	□	□
OPEN INTERNET	■	■
BBC IPLAYER, NEWS, SPORTS, CRB	■	■
NETFLIX	■	■
NETFLIX 4K	-	-
AMAZON PRIME VIDEO	□	□
AMAZON ALEXA READY (WORKS WITH ALEXA)	□	□
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	□	□
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	□	□
SKY NOW TV	-	-
DISNEY+	-	-
MIRACAST	□	□
GOOGLECAST	-	-
INTEL WI-DI	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■
CAMERA (MODULAR ACCESORY)	-	-
WiFi 6	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-
ADDITIONAL FEATURES		
NTSC PLAYBACK	side AV	side AV
SLEEP TIMER	■	■
HOTEL MODE (PASSIVE)	■	■
CHILD LOCK	■	■
NO IDENT TIMER	■	■
TOUCH KEY PAD	-	-
ONBOARD TACT SWITCH	■	■
USB CLONING	□	□
TOUCH SENSE	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-
AIR MOUSE	-	-
FEATURE OSD	□	□
ANIMATED FEATURE OSD	□	□
E-IB	□	□
STR (SUSPEND TO RAM = INSTANT ON)	■	■
JOYSTICK (EXTERNAL TK)	-	-
ON / OFF (EXTERNAL TK)	-	-
DIGITAL (DVB)		
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI
EPG (ELECTRONIC PROGRAM GUIDE)	■	■
EPG NOW AND NEXT	-	-
EPG TIMELINE SCHEDULE	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■
SMART CARD	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■
DVB APPROVALS		
FREEVIEW HD	n	n
CABLE READY HD	□	□
BOXER HD	□	□
COMHEM	□	□
ANTENNA HD READY	□	□
CANAL READY	□	□
CI+	1.4	1.4
FREESAT HD	-	-
RIKS TV	□	□
ZIGGO	□	□
UPC	□	□
D-SMART READY	□	□
DIGITURK READY	-	-
ORF	□	□
FRANSAT & FRANSAT CONNECT	□	□
M7	□	□
TELENET	□	□
TDT HIBRIDA	□	□
FREEVIEW PLUS	□	□
HD+	□	□
R2	□	□
LA TIVU	□	□
LA TIVU 4K	-	-
MINDIG	□	□
SAORVIEW	□	□
SKY DEUTSCHLAND	□	□
STOFA	□	□
YOUSEE	□	□
TKGS	□	□
TIVIBU	□	□
UNITYMEDIA	□	□
DTVP	□	□

VOO	☐	☐
LEVIRA	☐	☐
CRA	☐	☐
LOVESTV	☐	☐
SIMPLITY & SIMPLITY SAT	☐	☐
EVOTV	☐	☐
NCA	☐	☐
DIGITAL TV	☐	☐
POLSAT	-	-
EPT HYBRID	☐	☐
DVD FEATURES		
CD COMPATIBLE PLAYBACK	-	-
DVD COMPATIBLE PLAYBACK	-	-
CD-R COMPATIBLE PLAYBACK	-	-
CD-RW COMPATIBLE PLAYBACK	-	-
DVD-R COMPATIBLE PLAYBACK	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-
MP3 COMPATIBLE PLAYBACK	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-
SACD COMPATIBLE PLAYBACK	-	-
S-VHS COMPATIBLE PLAYBACK	-	-
DVD+R	-	-
DVD+RW	-	-
CD-AUDIO	-	-
KODAK PICTURE CD	-	-
DVD RAM	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-
MULTIPLE LANGUAGE OPTIONS	-	-
MULTIPLE CAMERA ANGLES	-	-
PLAYBACK ZOOM	-	-
PARENTAL SETTINGS	-	-
REGION	-	-
DIGITAL AUDIO OUTPUT (COAXIAL) DTS COMPATIBLE	-	-
DIGITAL AUDIO OUTPUT (OPTICAL) SPDIF DTS COMPATIBLE	-	-
SCREEN SAVER	-	-
TRANSPARENCY LEVELS	-	-
RETURN TO FACTORY SETTINGS	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-
DVD MENU LANGUAGES	-	-
COMMUNICATION		
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■
eARC (W/ HDMI 2.1)	-	-
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	-	-
VRR (Variable Refresh Rate)	-	-
QMS (Quick Media Switching)	-	-
OPERATION		
ROCKER SWITCH	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)		
WALL HANGING KIT	☐	☐
CERTIFICATES		
WEEE COMPLIANT	■	■
ROHS COMPLIANT	■	■

MB181V	32"	32"	40"	43"
	MB181V	MB181V	MB181V	MB181V
MAIN FEATURES				
FULL HD	□	□	■	■
ULTRA HD	-	-	-	-
100HZ (FLICKER FREE)	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	■	■	■	■
LED EDGE BACK LIGHT (ELED)	-	-	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-
OLED	-	-	-	-
MPEG4	■	■	■	■
HEVC (H.265)	■	■	■	■
ISDB-TB	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-
3DTV	-	-	-	-
3DTV TYPE	-	-	-	-
2D - 3D CONVERSION	-	-	-	-
MEDIA PLAYER	■	■	■	■
PVR READY (USB RECORD)	□	□	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1	2.1	2.1
SCREEN FORMAT				
VISIBLE SCREEN SIZE	61	81	102	109
SCREEN FORMAT	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS				
TUNER VHF/UHF/CABLE	■	■	■	■
APS / ATS (AUTO SEARCH)	■	■	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■	■	■
NTSC	-	-	-	-
DUAL TUNER	-	-	-	-
UNICABLE	■	■	■	■
DISEQC	■	■	■	■
SOUND				
GER(D) + NICAM STEREO	■	■	■	■
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■	■	■
DDCO	-	-	-	-
MS10 (DOLBY)	-	-	-	-
MS11 (DOLBY)	-	-	-	-
MS12 (DOLBY)	■	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■	■
DOLBY ATMOS	-	-	-	-
DOLBY AC4	■	■	■	■
DTS TRUSURROUND	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-
DTS HD	□	□	□	□
DTS VIRTUAL:X	□	□	□	□
DTS:X	-	-	-	-
SURROUND SOUND	■	■	■	■
AUDIO OUTPUT POWER (RMS)	2x6W	2x6W	2x8W	2x8W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	-	-	-
PLAY-FI	-	-	-	-
CONNECTORS I/O				
RF: TV/CATV 75 OHMS COAXIAL	■	■	■	■
SCART (EUROCONNECTOR)	-	-	-	-
SVHS VIA SCART	-	-	-	-
RGB VIA SCART2	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	■	■	■	■

COMPOSITE VIDEO OUT	-	-	-	-
AUDIO LINE OUT	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	-	-	-	-
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-
PC AUDIO IN	-	-	-	-
HDMI 1 (Side)	■	■	■	■
HDMI 2 (ARC) (Back)	■	■	■	■
HDMI 3 (Back)	-	-	-	-
HDMI 4	-	-	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	□	□	□	□
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	□	□	□	□
HEADPHONE OUT (HEADPHONE VOL. CONTROL SUPPORT DUAL CHANNELS)	■	■	■	■
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-
INTERNAL SUBWOOFER	-	-	-	-
USB1 (2.0) (Side)	■	■	■	■
USB2 (2.0) (Side)	□	□	□	□
USB3 (2.0)	-	-	-	-
USB4 (2.0)	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45	■	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-	-
RS232 (IN/OUT)	via HDMI side	via HDMI side	via HDMI side	via HDMI side
DIGITAL SW UPDATE	USB & LAN	USB & LAN	USB & LAN	USB & LAN
PIP / PAP / PAT				
TV PICTURE IN PC (PC PIP)	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-
PICTURE IN PICTURE (2 ANALOGUE TUNER PIP)	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-
PICTURE				
ZOOM MODES (ASPECT RATIO)	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D
CTI/LTI	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■
PSEUDO (SOFT) PIXELLENCE	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■
ME/MC (MOTION ESTIMATION MOTION COMPENSATION)	-	-	-	-
PICTURE WIZARD	-	-	-	-
HDR (HDR10, HLG)	■	■	■	■
DOLBY VISION HDR	-	-	-	-
HDR10+	-	-	-	-
BLUE STRETCH	-	-	-	-
MICRO DIMMING	-	-	-	-
DE-CONTOUR	-	-	-	-
GAMUT MAPPING	■	■	■	■
SDR TO HDR	-	-	-	-
SUPER RESOLUTION	■	■	■	■
FILM MAKER MODE	-	-	-	-
DOLBY VISION IQ	-	-	-	-
AI	-	-	-	-
TEXT				
FAST TEXT	-	-	-	-
NUMBER OF TELETEXT PAGES	-	-	-	-
CLOSED CAPTION	-	-	-	-

CONNECTIVITY FEATURES				
HBBTV (2.0.2)	■	■	■	■
FREEVIEW PLAY	■	■	■	■
WIFI (VIA USB DONGLE)	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	-	-	-	-
DLNA 1.5	-	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-
BLUETOOTH	□	□	□	□
HOTEL TV	-	-	-	-
DIGITAL SIGNAGE	-	-	-	-
PORTAL SUPPORT	■	■	■	■
WIFI (INTERNAL)	■	■	■	■
OPEN INTERNET	■	■	■	■
BBC IPLAYER, NEWS, SPORTS, CRB	■	■	■	■
NETFLIX	■	■	■	■
NETFLIX 4K	-	-	-	-
AMAZON PRIME VIDEO	■	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	■	■	■	■
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-	-
SKY NOW TV	■	■	■	■
DISNEY+	■	■	■	■
MIRACAST	■	■	■	■
GOOGLECAST	-	-	-	-
INTEL WI-DI	-	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	-	-
WiFi 6	-	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-	-
ADDITIONAL FEATURES				
NTSC PLAYBACK	side AV	side AV	side AV	side AV
SLEEP TIMER	■	■	■	■
HOTEL MODE (PASSIVE)	■	■	■	■
CHILD LOCK	■	■	■	■
NO IDENT TIMER	■	■	■	■
TOUCH KEY PAD	-	-	-	-
ONBOARD TACT SWITCH	o	o	o	o
USB CLONING	■	■	■	■
TOUCH SENSE	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-
AIR MOUSE	-	-	-	-
FEATURE OSD	■	■	■	■
ANIMATED FEATURE OSD	-	-	-	-
E-IB	■	■	■	■
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■	■
JOYSTICK (EXTERNAL TK)	-	-	-	-
ON / OFF (EXTERNAL TK)	□	□	□	□
DIGITAL (DVB)				
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■	■
EPG NOW AND NEXT	■	■	■	■
EPG TIMELINE SCHEDULE	■	■	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■	■
SMART CARD	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■	■
DVB APPROVALS				
FREEVIEW HD	■	■	■	■
CABLE READY HD	■	■	■	■
BOXER HD	■	■	■	■
COMHEM	■	■	■	■
ANTENNA HD READY	■	■	■	■
CANAL READY	-	-	-	-
CI+	1.4	1.4	1.4	1.4
FREESAT HD	-	-	-	-
RIKS TV	■	■	■	■
ZIGGO	■	■	■	■
UPC	■	■	■	■
D-SMART READY	■	■	■	■
DIGITURK READY	-	-	-	-
ORF	-	-	-	-
FRANSAT & FRANSAT CONNECT	■	■	■	■
M7	-	-	-	-
TELENET	■	■	■	■
TDI HIBRIDA	■	■	■	■
FREEVIEW PLAY	■	■	■	■
HD+	■	■	■	■
R2	-	-	-	-
LA TIVU	■	■	■	■
LA TIVU 4K	-	-	-	-
MINDIG	-	-	-	-
SAORVIEW	■	■	■	■
SKY DEUTSCHLAND	-	-	-	-
STOFA	■	■	■	■
YOUSEE	■	■	■	■
TKGS	■	■	■	■
TIVIBU	■	■	■	■
UNITYMEDIA/Vodafone	■	■	■	■
DTVP	■	■	■	■
VOO	-	-	-	-

LEVIRA	■	■	■	■
CRA	■	■	■	■
LOVESTV	■	■	■	■
SIMPLITV & SIMPLITV SAT	■	■	■	■
EVOTV	NA	NA	NA	NA
NCA	NA	NA	NA	NA
DIGITAL TV	NA	NA	NA	NA
POLSAT	NA	NA	NA	NA
EPT HYBRID	NA	NA	NA	NA
DVD FEATURES				
CD COMPATIBLE PLAYBACK	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-
DVD+R	-	-	-	-
DVD+RW	-	-	-	-
CD-AUDIO	-	-	-	-
KODAK PICTURE CD	-	-	-	-
DVD RAM	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-
PLAYBACK ZOOM	-	-	-	-
PARENTAL SETTINGS	-	-	-	-
REGION	-	-	-	-
DIGITAL AUDIO OUTPUT (COAXIAL) DTS COMPATIBLE	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTICAL) SPDIF DTS COMPATIBLE	-	-	-	-
SCREEN SAVER	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-
COMMUNICATION				
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■	■
eARC (W/ HDMI 2.1)	-	-	-	-
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1)	-	-	-	-
VRR (Variable Refresh Rate)	-	-	-	-
QMS (Quick Media Switching)	-	-	-	-
OPERATION				
ROCKER SWITCH	□	□	□	□
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)				
WALL HANGING KIT	□	□	□	□
CERTIFICATES				
WEEE COMPLIANT	■	■	■	■
ROHS COMPLIANT	■	■	■	■

MB185	43"	50"	55"	65"	70"	75"
	MB185	MB185	MB185	MB185	MB185	MB185
MAIN FEATURES						
FULL HD	-	-	-	-	-	-
ULTRA HD	■	■	■	■	■	■
100HZ (FLICKER FREE)	-	-	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	□	□	□	□	□	□
LED EDGE BACK LIGHT (ELED)	□	□	□	□	□	□
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-	-	-
OLED	-	-	-	-	-	-
MPEG4	■	■	■	■	■	■
HEVC (H.265)	■	■	■	■	■	■
ISDB-TB	-	-	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-	-	-
3DTV	-	-	-	-	-	-
3DTV TYPE	-	-	-	-	-	-
2D - 3D CONVERSION	-	-	-	-	-	-
MEDIA PLAYER	■	■	■	■	■	■
PVR READY (USB RECORD)	□	□	□	□	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1	2.1	2.1	2.1	2.1
SCREEN FORMAT						
VISIBLE SCREEN SIZE	109	127	140	164	177	190
SCREEN FORMAT	16:9	16:9	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS						
TUNER VHF/UHF/CABLE	■	■	■	■	■	■
APS / ATS (AUTO SEARCH)	■	■	■	■	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200	200	200	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■	■	■	■	■
NTSC	-	-	-	-	-	-
DUAL TUNER	-	-	-	-	-	-
UNICABLE	□	□	□	□	□	□
DISEQC	□	□	□	□	□	□
SOUND						
GER(D) + NICAM STEREO	■	■	■	■	■	■
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■	■	■	■	■
DDCO	-	-	-	-	-	-
MS10 (DOLBY)	-	-	-	-	-	-
MS11 (DOLBY)	-	-	-	-	-	-
MS12 (DOLBY)	■	■	■	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■	■	■	■
DOLBY ATMOS	■	■	■	■	■	■
DOLBY AC4	■	■	■	■	■	■
DTS TRUSURROUND	-	-	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-	-	-
DTS HD	-	-	-	-	-	-
DTS VIRTUAL:X	□	□	□	□	□	□
DTS:X	□	□	□	□	□	□
SURROUND SOUND	-	-	-	-	-	-
AUDIO OUTPUT POWER (RMS)	2x10W	2x10W	2x10W	2x12W	2x12W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	12W	12W	12W	12W	12W
PLAY-FI	-	-	-	-	-	-
CONNECTORS						
RF: TV/CATV 75 OHMS COAXIAL	■	■	■	■	■	■
SCART (EUROCONNECTOR)	-	-	-	-	-	-
SVHS VIA SCART	-	-	-	-	-	-
RGB VIA SCART2	-	-	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	-	-	-	-	-	-

COMPOSITE VIDEO OUT	-	-	-	-	-	-
AUDIO LINE OUT	-	-	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■	■	■	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-	-	-
PC AUDIO IN	-	-	-	-	-	-
HDMI 1 (Side)	■	■	■	■	■	■
HDMI 2 (ARC) (Side)	■	■	■	■	■	■
HDMI 3 (Back)	■	■	■	■	■	■
HDMI 4 (Back)	-	-	-	-	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■	■	■	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-	-	-	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-	-	-
INTERNAL SUBWOOFER	-	□	□	□	□	□
USB1 (2.0) (Side)	■	■	■	■	■	■
USB2 (2.0) (Side)	■	■	■	■	■	■
USB3 (2.0)	-	-	-	-	-	-
USB4 (2.0)	-	-	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■	■	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-	-	-	-
RS232 (IN/OUT)	-	-	-	-	-	-
DIGITAL SW UPDATE	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA
PIP / PAP / PAT						
TV PICTURE IN PC (PC PIP)	-	-	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-	-	-
PICTURE						
ZOOM MODES (ASPECT RATIO)	■	■	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D	3D	3D
CTI/LTI	■	■	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■	■	■
PSEUDO(SOFT) PIXELLENCE	-	-	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION) - G31	□	□	□	□	□	□
PICTURE WIZARD	-	-	-	-	-	-
HDR (HDR10, HLG)	■	■	■	■	■	■
DOLBY VISION HDR	■	■	■	■	■	■
HDR10+ - G31	□	□	□	□	□	□
BLUE STRETCH	■	■	■	■	■	■
MICRO DIMMING	■	■	■	■	■	■
DE-CONTOUR - G31	□	□	□	□	□	□
GAMUT MAPPING	■	■	■	■	■	■
SDR TO HDR (Max Vivid menu item)	-	-	-	-	-	-
SUPER RESOLUTION	■	■	■	■	■	■
FILM MAKER MODE	-	-	-	-	-	-
DOLBY VISION IQ	-	-	-	-	-	-
AI	-	-	-	-	-	-
TEXT						
FAST TEXT	■	■	■	■	■	■
NUMBER OF TELETEXT PAGES	1000	1000	1000	1000	1000	1000

CLOSED CAPTION	-	-	-	-	-	-
CONNECTIVITY FEATURES						
HBBTV (2.0.2)	■	■	■	■	■	■
FREEVIEW PLAY - G31	□	□	□	□	□	□
WIFI (VIA USB DONGLE)	-	-	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	■	■	■	■	■	■
DLNA 1.5	-	-	-	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-	-	-
BLUETOOTH	■	■	■	■	■	■
HOTEL TV	-	-	-	-	-	-
DIGITAL SIGNAGE	-	-	-	-	-	-
PORTAL SUPPORT	-	-	-	-	-	-
WIFI (INTERNAL)	■	■	■	■	■	■
OPEN INTERNET	-	-	-	-	-	-
BBC IPLAYER, NEWS, SPORTS, CRB - G31	□	□	□	□	□	□
NETFLIX	■	■	■	■	■	■
NETFLIX 4K	■	■	■	■	■	■
AMAZON PRIME VIDEO	■	■	■	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-	-	-	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-	-	-	-
SKY NOW TV	-	-	-	-	-	-
DISNEY+	-	-	-	-	-	-
MIRACAST	-	-	-	-	-	-
GOOGLECAST	■	■	■	■	■	■
INTEL WI-DI	-	-	-	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	-	-	-	-
WiFi 6	-	-	-	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-	-	-	-
ADDITIONAL FEATURES						
NTSC PLAYBACK	-	-	-	-	-	-
SLEEP TIMER	■	■	■	■	■	■
HOTEL MODE (PASSIVE)	-	-	-	-	-	-
CHILD LOCK	-	-	-	-	-	-
NO IDENT TIMER	■	■	■	■	■	■
TOUCH KEY PAD	-	-	-	-	-	-
ONBOARD TACT SWITCH	□	□	□	□	□	□
USB CLONING	-	-	-	-	-	-
TOUCH SENSE	-	-	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-	-	-
AIR MOUSE	-	-	-	-	-	-
FEATURE OSD	-	-	-	-	-	-
ANIMATED FEATURE OSD	□	□	□	□	□	□
E-IB	■	■	■	■	■	■
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■	■	■	■
JOYSTICK (EXTERNAL TK)	□	□	□	□	□	□
ON / OFF (EXTERNAL TK)	□	□	□	□	□	□
DIGITAL (DVB)						
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800	800	800	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■	■	■	■
EPG NOW AND NEXT	-	-	-	-	-	-
EPG TIMELINE SCHEDULE	■	■	■	■	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■	■	■	■
SMART CARD	-	-	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■	■	■	■
APPROVALS						
FREEVIEW HD	□	□	□	□	□	□
CABLE READY HD	□	□	□	□	□	□
BOXER HD	□	□	□	□	□	□
COMHEM	□	□	□	□	□	□
ANTENNA HD READY	□	□	□	□	□	□
CANAL READY	-	-	-	-	-	-
CI+	■	■	■	■	■	■
FREESAT HD	-	-	-	-	-	-
RIKS TV	□	□	□	□	□	□
ZIGGO	□	□	□	□	□	□
UPC	□	□	□	□	□	□
D-SMART READY	□	□	□	□	□	□
DIGITURK READY	-	-	-	-	-	-
ORF	□	□	□	□	□	□
FRANSAT & FRANSAT CONNECT	□	□	□	□	□	□
M7	□	□	□	□	□	□
TELENET	□	□	□	□	□	□
TDT HIBRIDA	□	□	□	□	□	□
FREEVIEW PLUS	-	-	-	-	-	-
HD+	□	□	□	□	□	□
R2	□	□	□	□	□	□
LA TIVU	-	-	-	-	-	-
LA TIVU 4K	□	□	□	□	□	□
MINDIG	□	□	□	□	□	□
SAORVIEW	□	□	□	□	□	□
SKY DEUTSCHLAND	□	□	□	□	□	□
STOFA	□	□	□	□	□	□
YOUSEE	□	□	□	□	□	□
TKGS	□	□	□	□	□	□
TIVIBU	□	□	□	□	□	□
UNITYMEDIA	□	□	□	□	□	□
DTVP	□	□	□	□	□	□
VOO	□	□	□	□	□	□
LEVIRA	□	□	□	□	□	□
CRA	□	□	□	□	□	□

LOVESTV	☐	☐	☐	☐	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐	☐	☐	☐	☐
EVOTV	-	-	-	-	-	-
NCA	-	-	-	-	-	-
DIGITAL TV	☐	☐	☐	☐	☐	☐
POLSAT	-	-	-	-	-	-
EPT HYBRID	☐	☐	☐	☐	☐	☐
DVD FEATURES						
CD COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD+R	-	-	-	-	-	-
DVD+RW	-	-	-	-	-	-
CD-AUDIO	-	-	-	-	-	-
KODAK PICTURE CD	-	-	-	-	-	-
DVD RAM	-	-	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-	-	-
PLAYBACK ZOOM	-	-	-	-	-	-
PARENTAL SETTINGS	-	-	-	-	-	-
REGION	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-	-	-	-	-
SCREEN SAVER	-	-	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-	-	-
COMMUNICATION						
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■	■	■	■
eARC (W/ HDMI 2.1) - G31	☐	☐	☐	☐	☐	☐
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	■	■	■	■	■	■
VRR (Variable Refresh Rate) - G31	☐	☐	☐	☐	☐	☐
QMS (Quick Media Switching) - G31	☐	☐	☐	☐	☐	☐
OPERATION						
ROCKER SWITCH	☐	☐	☐	☐	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)						
WALL HANGING KIT	☐	☐	☐	☐	☐	☐
CERTIFICATES						
WEEE COMPLIANT	■	■	■	■	■	■
ROHS COMPLIANT	■	■	■	■	■	■

MB185Y	43"	50"	55"	65"	70"	75"
	MB185	MB185	MB185	MB185	MB185	MB185
MAIN FEATURES						
FULL HD	-	-	-	-	-	-
ULTRA HD	■	■	■	■	■	■
100HZ (FLICKER FREE)	-	-	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	□	□	□	□	□	□
LED EDGE BACK LIGHT (ELED)	□	□	□	□	□	□
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-	-	-
OLED	-	-	-	-	-	-
MPEG4	■	■	■	■	■	■
HEVC (H.265)	■	■	■	■	■	■
ISDB-TB	-	-	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-	-	-
3DTV	-	-	-	-	-	-
3DTV TYPE	-	-	-	-	-	-
2D - 3D CONVERSION	-	-	-	-	-	-
MEDIA PLAYER	■	■	■	■	■	■
PVR READY (USB RECORD)	□	□	□	□	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1	2.1	2.1	2.1	2.1
SCREEN FORMAT						
VISIBLE SCREEN SIZE	109	127	140	164	177	190
SCREEN FORMAT	16:9	16:9	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS						
TUNER VHF/UHF/CABLE	■	■	■	■	■	■
APS / ATS (AUTO SEARCH)	■	■	■	■	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200	200	200	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■	■	■	■	■
NTSC	-	-	-	-	-	-
DUAL TUNER	-	-	-	-	-	-
UNICABLE	□	□	□	□	□	□
DISEQC	□	□	□	□	□	□
SOUND						
GER(D) + NICAM STEREO	■	■	■	■	■	■
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■	■	■	■	■
DDCO	-	-	-	-	-	-
MS10 (DOLBY)	-	-	-	-	-	-
MS11 (DOLBY)	-	-	-	-	-	-
MS12 (DOLBY)	■	■	■	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■	■	■	■
DOLBY ATMOS	■	■	■	■	■	■
DOLBY AC4	■	■	■	■	■	■
DTS TRUSURROUND	-	-	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-	-	-
DTS HD	-	-	-	-	-	-
DTS VIRTUAL:X	□	□	□	□	□	□
DTS:X	□	□	□	□	□	□
SURROUND SOUND	-	-	-	-	-	-
AUDIO OUTPUT POWER (RMS)	2x10W	2x10W	2x10W	2x12W	2x12W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	12W	12W	12W	12W	12W
PLAY-FI	-	-	-	-	-	-
CONNECTORS						
RF: TV/CATV 75 OHMS COAXIAL	■	■	■	■	■	■
SCART (EUROCONNECTOR)	-	-	-	-	-	-
SVHS VIA SCART	-	-	-	-	-	-
RGB VIA SCART2	-	-	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	-	-	-	-	-	-

COMPOSITE VIDEO OUT	-	-	-	-	-	-
AUDIO LINE OUT	-	-	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■	■	■	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-	-	-
PC AUDIO IN	-	-	-	-	-	-
HDMI 1 (Side)	■	■	■	■	■	■
HDMI 2 (ARC) (Side)	■	■	■	■	■	■
HDMI 3 (Back)	■	■	■	■	■	■
HDMI 4 (Back)	-	-	-	-	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■	■	■	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-	-	-	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-	-	-
INTERNAL SUBWOOFER	-	□	□	□	□	□
USB1 (2.0) (Side)	■	■	■	■	■	■
USB2 (2.0) (Side)	■	■	■	■	■	■
USB3 (2.0)	-	-	-	-	-	-
USB4 (2.0)	-	-	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■	■	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-	-	-	-
RS232 (IN/OUT)	-	-	-	-	-	-
DIGITAL SW UPDATE	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA
PIP / PAP / PAT						
TV PICTURE IN PC (PC PIP)	-	-	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-	-	-
PICTURE						
ZOOM MODES (ASPECT RATIO)	■	■	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D	3D	3D
CTI/LTI	■	■	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■	■	■
PSEUDO(SOFT) PIXELLENCE	-	-	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION) - G31	□	□	□	□	□	□
PICTURE WIZARD	🔧	🔧	🔧	🔧	🔧	🔧
HDR (HDR10, HLG)	■	■	■	■	■	■
DOLBY VISION HDR	■	■	■	■	■	■
HDR10+ - G31	□	□	□	□	□	□
BLUE STRETCH	■	■	■	■	■	■
MICRO DIMMING	■	■	■	■	■	■
DE-CONTOUR - G31	□	□	□	□	□	□
GAMUT MAPPING	■	■	■	■	■	■
SDR TO HDR (Max Vivid menu item)	-	-	-	-	-	-
SUPER RESOLUTION	■	■	■	■	■	■
FILM MAKER MODE	-	-	-	-	-	-
DOLBY VISION IQ	-	-	-	-	-	-
AI	-	-	-	-	-	-
TEXT						
FAST TEXT	■	■	■	■	■	■
NUMBER OF TELETEXT PAGES	1000	1000	1000	1000	1000	1000

CLOSED CAPTION	-	-	-	-	-	-
CONNECTIVITY FEATURES						
HBBTV (2.0.2)	■	■	■	■	■	■
FREEVIEW PLAY - G31	□	□	□	□	□	□
WIFI (VIA USB DONGLE)	-	-	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	■	■	■	■	■	■
DLNA 1.5	-	-	-	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-	-	-
BLUETOOTH	■	■	■	■	■	■
HOTEL TV	-	-	-	-	-	-
DIGITAL SIGNAGE	-	-	-	-	-	-
PORTAL SUPPORT	-	-	-	-	-	-
WIFI (INTERNAL)	■	■	■	■	■	■
OPEN INTERNET	-	-	-	-	-	-
BBC IPLAYER, NEWS, SPORTS, CRB - G31	□	□	□	□	□	□
NETFLIX	■	■	■	■	■	■
NETFLIX 4K	■	■	■	■	■	■
AMAZON PRIME VIDEO	■	■	■	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-	-	-	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-	-	-	-
SKY NOW TV	-	-	-	-	-	-
DISNEY+	-	-	-	-	-	-
MIRACAST	-	-	-	-	-	-
GOOGLECAST	■	■	■	■	■	■
INTEL WI-DI	-	-	-	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	-	-	-	-
WiFi 6	-	-	-	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-	-	-	-
ADDITIONAL FEATURES						
NTSC PLAYBACK	-	-	-	-	-	-
SLEEP TIMER	■	■	■	■	■	■
HOTEL MODE (PASSIVE)	-	-	-	-	-	-
CHILD LOCK	-	-	-	-	-	-
NO IDENT TIMER	■	■	■	■	■	■
TOUCH KEY PAD	-	-	-	-	-	-
ONBOARD TACT SWITCH	□	□	□	□	□	□
USB CLONING	-	-	-	-	-	-
TOUCH SENSE	-	-	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-	-	-
AIR MOUSE	-	-	-	-	-	-
FEATURE OSD	-	-	-	-	-	-
ANIMATED FEATURE OSD	□	□	□	□	□	□
E-IB	■	■	■	■	■	■
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■	■	■	■
JOYSTICK (EXTERNAL TK)	□	□	□	□	□	□
ON / OFF (EXTERNAL TK)	□	□	□	□	□	□
DIGITAL (DVB)						
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800	800	800	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■	■	■	■
EPG NOW AND NEXT	-	-	-	-	-	-
EPG TIMELINE SCHEDULE	■	■	■	■	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■	■	■	■
SMART CARD	-	-	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■	■	■	■
APPROVALS						
FREEVIEW HD	□	□	□	□	□	□
CABLE READY HD	□	□	□	□	□	□
BOXER HD	□	□	□	□	□	□
COMHEM	□	□	□	□	□	□
ANTENNA HD READY	□	□	□	□	□	□
CANAL READY	-	-	-	-	-	-
CI+	■	■	■	■	■	■
FREESAT HD	-	-	-	-	-	-
RIKS TV	□	□	□	□	□	□
ZIGGO	□	□	□	□	□	□
UPC	□	□	□	□	□	□
D-SMART READY	□	□	□	□	□	□
DIGITURK READY	-	-	-	-	-	-
ORF	□	□	□	□	□	□
FRANSAT & FRANSAT CONNECT	□	□	□	□	□	□
M7	□	□	□	□	□	□
TELENET	□	□	□	□	□	□
TDI HIBRIDA	□	□	□	□	□	□
FREEVIEW PLUS	-	-	-	-	-	-
HD+	□	□	□	□	□	□
R2	□	□	□	□	□	□
LA TIVU	-	-	-	-	-	-
LA TIVU 4K	□	□	□	□	□	□
MINDIG	□	□	□	□	□	□
SAORVIEW	□	□	□	□	□	□
SKY DEUTSCHLAND	□	□	□	□	□	□
STOFA	□	□	□	□	□	□
YOUSEE	□	□	□	□	□	□
TKGS	□	□	□	□	□	□
TIVIBU	□	□	□	□	□	□
UNITYMEDIA	□	□	□	□	□	□
DTVP	□	□	□	□	□	□
VOO	□	□	□	□	□	□
LEVIRA	□	□	□	□	□	□
CRA	□	□	□	□	□	□

LOVESTV	☐	☐	☐	☐	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐	☐	☐	☐	☐
EVOTV	-	-	-	-	-	-
NCA	-	-	-	-	-	-
DIGITAL TV	☐	☐	☐	☐	☐	☐
POLSAT	-	-	-	-	-	-
EPT HYBRID	☐	☐	☐	☐	☐	☐
DVD FEATURES						
CD COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD+R	-	-	-	-	-	-
DVD+RW	-	-	-	-	-	-
CD-AUDIO	-	-	-	-	-	-
KODAK PICTURE CD	-	-	-	-	-	-
DVD RAM	-	-	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-	-	-
PLAYBACK ZOOM	-	-	-	-	-	-
PARENTAL SETTINGS	-	-	-	-	-	-
REGION	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-	-	-	-	-
SCREEN SAVER	-	-	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-	-	-
COMMUNICATION						
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■	■	■	■
eARC (W/ HDMI 2.1) - G31	☐	☐	☐	☐	☐	☐
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	■	■	■	■	■	■
VRR (Variable Refresh Rate) - G31	☐	☐	☐	☐	☐	☐
QMS (Quick Media Switching) - G31	☐	☐	☐	☐	☐	☐
OPERATION						
ROCKER SWITCH	☐	☐	☐	☐	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)						
WALL HANGING KIT	☐	☐	☐	☐	☐	☐
CERTIFICATES						
WEEE COMPLIANT	■	■	■	■	■	■
ROHS COMPLIANT	■	■	■	■	■	■

MB185EB	55"	65"
	MB185EB	MB185EB
MAIN FEATURES		
FULL HD	-	-
ULTRA HD	■	■
100HZ (FLICKER FREE)	■	■
LED DIRECT BACK LIGHT (DLED)	-	-
LED EDGE BACK LIGHT (ELED)	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-
OLED	■	■
MPEG4	■	■
HEVC (H.265)	■	■
ISDB-TB	-	-
TV-DVD PLAYER COMBI	-	-
3DTV	-	-
3DTV TYPE	-	-
2D - 3D CONVERSION	-	-
MEDIA PLAYER	■	■
PVR READY (USB RECORD)	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1
SCREEN FORMAT		
VISIBLE SCREEN SIZE	140	164
SCREEN FORMAT	16:9	16:9
RECEPTION & TUNING SYSTEMS		
TUNER VHF/UHF/CABLE	■	■
APS / ATS (AUTO SEARCH)	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■
NTSC	-	-
DUAL TUNER	-	-
UNICABLE	□	□
DISEQC	□	□
SOUND		
GER(D) + NICAM STEREO	■	■
EQUALIZER (5 BAND)	5 band	5 band
BASS / TREBLE	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■
DDCO	-	-
MS10 (DOLBY)	-	-
MS11 (DOLBY)	-	-
MS12 (DOLBY)	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■
DOLBY ATMOS	■	■
DOLBY AC4	■	■
DTS TRUSURROUND	-	-
DTS 2.0+ DIGITAL OUT	-	-
DTS HD	■	■
DTS VIRTUAL:X	■	■
DTS:X	■	■
SURROUND SOUND	-	-
AUDIO OUTPUT POWER (RMS)	2x12W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	12W	12W
PLAY-FI	-	-
CONNECTORS		
RF: TV/CATV 75 OHMS COAXIAL	■	■
SCART (EUROCONNECTOR)	-	-
SVHS VIA SCART	-	-
RGB VIA SCART2	-	-
COMPOSITE VIDEO/AUDIO IN	-	-

COMPOSITE VIDEO OUT	-	-
AUDIO LINE OUT	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-
YPBPR (COMPONENT) IN	-	-
YPBPR IN VIA VGA	-	-
VGA (PC IN: D-SUB15)	-	-
PC AUDIO IN	-	-
HDMI 1 (Side)	■	■
HDMI 2 (ARC) (Side)	■	■
HDMI 3 (Back)	■	■
HDMI 4 (Back)	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-
INTERNAL SUBWOOFER	□	□
USB1 (2.0) (Side)	■	■
USB2 (2.0) (Side)	■	■
USB3 (2.0)	-	-
USB4 (2.0)	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-
RS232 (IN/OUT)	-	-
DIGITAL SW UPDATE	USB / GOTA	USB / GOTA
PIP / PAP / PAT		
TV PICTURE IN PC (PC PIP)	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-
PICTURE AND PICTURE (PAP)	-	-
PICTURE AND TELETEXT (PAT)	-	-
PICTURE		
ZOOM MODES (ASPECT RATIO)	■	■
COMB FILTER (2D / 3D)	3D	3D
CTI/LTI	■	■
DIGITAL NOISE REDUCTION	■	■
PSEUDO(SOFT) PIXELLENCE	-	-
DYNAMIC CONTRAST	■	■
PROGRESSIVE SCAN	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION) - G31	■	■
PICTURE WIZARD	-	-
HDR (HDR10, HLG)	■	■
DOLBY VISION HDR	■	■
HDR10+ - G31	□	□
BLUE STRETCH	■	■
MICRO DIMMING	■	■
DE-CONTOUR - G31	■	■
GAMUT MAPPING	■	■
SDR TO HDR (Max Vivid menu item)	■	■
SUPER RESOLUTION	■	■
FILM MAKER MODE	-	-
DOLBY VISION IQ	-	-
AI	-	-
TEXT		
FAST TEXT	■	■
NUMBER OF TELETEXT PAGES	1000	1000
CLOSED CAPTION	-	-

CONNECTIVITY FEATURES		
HBBTV (2.0.2)	■	■
FREEVIEW PLAY - G31	□	□
WIFI (VIA USB DONGLE)	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	■	■
DLNA 1.5	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-
BLUETOOTH	■	■
HOTEL TV	-	-
DIGITAL SIGNAGE	-	-
PORTAL SUPPORT	-	-
WIFI (INTERNAL)	■	■
OPEN INTERNET	-	-
BBC IPLAYER, NEWS, SPORTS, CRB - G31	□	□
NETFLIX	■	■
NETFLIX 4K	■	■
AMAZON PRIME VIDEO	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-
SKY NOW TV	-	-
DISNEY+	-	-
MIRACAST	-	-
GOOGLECAST	■	■
INTEL WI-DI	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■
CAMERA (MODULAR ACCESORY)	-	-
WiFi 6	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-
ADDITIONAL FEATURES		
NTSC PLAYBACK	-	-
SLEEP TIMER	■	■
HOTEL MODE (PASSIVE)	-	-
CHILD LOCK	-	-
NO IDENT TIMER	■	■
TOUCH KEY PAD	-	-
ONBOARD TACT SWITCH	-	-
USB CLONING	-	-
TOUCH SENSE	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-
AIR MOUSE	-	-
FEATURE OSD	-	-
ANIMATED FEATURE OSD	-	-
E-IB	■	■
STR (SUSPEND TO RAM = INSTANT ON)	■	■
JOYSTICK (EXTERNAL TK)	□	□
ON / OFF (EXTERNAL TK)	-	-
DIGITAL (DVB)		
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■
EPG NOW AND NEXT	-	-
EPG TIMELINE SCHEDULE	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■
SMART CARD	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■
APPROVALS		
FREEVIEW HD	☐	☐
CABLE READY HD	☐	☐
BOXER HD	☐	☐
COMHEM	☐	☐
ANTENNA HD READY	☐	☐
CANAL READY	-	-
CI+	■	■
FREESAT HD	-	-
RIKS TV	☐	☐
ZIGGO	☐	☐
UPC	☐	☐
D-SMART READY	☐	☐
DIGITURK READY	-	-
ORF	☐	☐
FRANSAT & FRANSAT CONNECT	☐	☐
M7	☐	☐
TELENET	☐	☐
TDT HIBRIDA	☐	☐
FREEVIEW PLUS	-	-
HD+	☐	☐
R2	☐	☐
LA TIVU	-	-
LA TIVU 4K	☐	☐
MINDIG	☐	☐
SAORVIEW	☐	☐
SKY DEUTSCHLAND	☐	☐
STOFA	☐	☐
YOUSEE	☐	☐
TKGS	☐	☐
TIVIBU	☐	☐
UNITYMEDIA	☐	☐
DTVP	☐	☐
VOO	☐	☐
LEVIRA	☐	☐
CRA	☐	☐

LOVESTV	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐
EVOTV	-	-
NCA	-	-
DIGITAL TV	☐	☐
POLSAT	-	-
EPT HYBRID	☐	☐
DVD FEATURES		
CD COMPATIBLE PLAYBACK	-	-
DVD COMPATIBLE PLAYBACK	-	-
CD-R COMPATIBLE PLAYBACK	-	-
CD-RW COMPATIBLE PLAYBACK	-	-
DVD-R COMPATIBLE PLAYBACK	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-
MP3 COMPATIBLE PLAYBACK	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-
SACD COMPATIBLE PLAYBACK	-	-
S-VHS COMPATIBLE PLAYBACK	-	-
DVD+R	-	-
DVD+RW	-	-
CD-AUDIO	-	-
KODAK PICTURE CD	-	-
DVD RAM	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-
MULTIPLE LANGUAGE OPTIONS	-	-
MULTIPLE CAMERA ANGLES	-	-
PLAYBACK ZOOM	-	-
PARENTAL SETTINGS	-	-
REGION	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-
SCREEN SAVER	-	-
TRANSPARENCY LEVELS	-	-
RETURN TO FACTORY SETTINGS	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-
DVD MENU LANGUAGES	-	-
COMMUNICATION		
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■
eARC (W/ HDMI 2.1) - G31	■	■
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	■	■
VRR (Variable Refresh Rate)	-	-
QMS (Quick Media Switching)	-	-
OPERATION		
ROCKER SWITCH	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)		
WALL HANGING KIT	☐	☐
CERTIFICATES		
WEEE COMPLIANT	■	■
ROHS COMPLIANT	■	■

MB185EB Google TV	55"	65"
	MB185	MB185
MAIN FEATURES		
FULL HD	-	-
ULTRA HD	■	■
100HZ (FLICKER FREE)	■	■
LED DIRECT BACK LIGHT (DLED)	-	-
LED EDGE BACK LIGHT (ELED)	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-
OLED	■	■
MPEG4	■	■
HEVC (H.265)	■	■
ISDB-TB	-	-
TV-DVD PLAYER COMBI	-	-
3DTV	-	-
3DTV TYPE	-	-
2D - 3D CONVERSION	-	-
MEDIA PLAYER	■	■
PVR READY (USB RECORD)	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1
SCREEN FORMAT		
VISIBLE SCREEN SIZE	140	164
SCREEN FORMAT	16:9	16:9
RECEPTION & TUNING SYSTEMS		
TUNER VHF/UHF/CABLE	■	■
APS / ATS (AUTO SEARCH)	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■
NTSC	-	-
DUAL TUNER	-	-
UNICABLE	□	□
DISEQC	□	□
SOUND		
GER(D) + NICAM STEREO	■	■
EQUALIZER (5 BAND)	5 band	5 band
BASS / TREBLE	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■
DDCO	-	-
MS10 (DOLBY)	-	-
MS11 (DOLBY)	-	-
MS12 (DOLBY)	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■
DOLBY ATMOS	■	■
DOLBY AC4	■	■
DTS TRUSURROUND	-	-
DTS 2.0+ DIGITAL OUT	-	-
DTS HD	□	□
DTS VIRTUAL:X	□	□
DTS:X	□	□
SURROUND SOUND	-	-
AUDIO OUTPUT POWER (RMS)	2x10W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	12W	12W
PLAY-FI	-	-
CONNECTORS		
RF: TV/CATV 75 OHMS COAXIAL	■	■
SCART (EUROCONNECTOR)	-	-
SVHS VIA SCART	-	-
RGB VIA SCART2	-	-
COMPOSITE VIDEO/AUDIO IN	-	-

COMPOSITE VIDEO OUT	-	-
AUDIO LINE OUT	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-
YPBPR (COMPONENT) IN	-	-
YPBPR IN VIA VGA	-	-
VGA (PC IN: D-SUB15)	-	-
PC AUDIO IN	-	-
HDMI 1 (Side)	■	■
HDMI 2 (ARC) (Side)	■	■
HDMI 3 (Back)	■	■
HDMI 4 (Back)	-	-
HDCP (1.2/ 2.0 / 2.2 / 2.3)	2.3	2.3
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-
INTERNAL SUBWOOFER	□	□
USB1 (2.0) (Side)	■	■
USB2 (2.0) (Side)	■	■
USB3 (2.0)	-	-
USB4 (2.0)	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-
RS232 (IN/OUT)	-	-
DIGITAL SW UPDATE	USB / GOTA	USB / GOTA
PIP / PAP / PAT		
TV PICTURE IN PC (PC PIP)	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-
PICTURE AND PICTURE (PAP)	-	-
PICTURE AND TELETEXT (PAT)	-	-
PICTURE		
ZOOM MODES (ASPECT RATIO)	■	■
COMB FILTER (2D / 3D)	3D	3D
CTI/LTI	■	■
DIGITAL NOISE REDUCTION	■	■
PSEUDO(SOFT) PIXELLENCE	-	-
DYNAMIC CONTRAST	■	■
PROGRESSIVE SCAN	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION) - G31	■	■
PICTURE WIZARD	-	-
HDR (HDR10, HLG)	■	■
DOLBY VISION HDR	■	■
HDR10+ - G31	□	□
BLUE STRETCH	■	■
MICRO DIMMING	■	■
DE-CONTOUR - G31	■	■
GAMUT MAPPING	■	■
SDR TO HDR (Max Vivid menu item)	■	■
SUPER RESOLUTION	■	■
FILM MAKER MODE	■	■
DOLBY VISION IQ	□	□
AI	-	-
TEXT		
FAST TEXT	■	■
NUMBER OF TELETEXT PAGES	1000	1000

CLOSED CAPTION	-	-
CONNECTIVITY FEATURES		
HBBTV (2.0.3)	■	■
FREEVIEW PLAY - G31	□	□
WIFI (VIA USB DONGLE)	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	■	■
DLNA 1.5	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-
BLUETOOTH	■	■
HOTEL TV	-	-
DIGITAL SIGNAGE	-	-
PORTAL SUPPORT	-	-
WIFI (INTERNAL)	■	■
OPEN INTERNET	-	-
BBC IPLAYER, NEWS, SPORTS, CRB - G31	■	■
NETFLIX	□	□
NETFLIX 4K	■	■
AMAZON PRIME VIDEO	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-
SKY NOW TV	-	-
DISNEY+	■	■
MIRACAST	-	-
GOOGLECAST	■	■
INTEL WI-DI	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■
CAMERA (MODULAR ACCESORY)	-	-
WiFi 6	□	□
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	□	□
ADDITIONAL FEATURES		
NTSC PLAYBACK	-	-
SLEEP TIMER	■	■
HOTEL MODE (PASSIVE)	-	-
CHILD LOCK	-	-
NO IDENT TIMER	■	■
TOUCH KEY PAD	-	-
ONBOARD TACT SWITCH	-	-
USB CLONING	-	-
TOUCH SENSE	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-
AIR MOUSE	-	-
FEATURE OSD	-	-
ANIMATED FEATURE OSD	-	-
E-IB	■	■
STR (SUSPEND TO RAM = INSTANT ON)	■	■
JOYSTICK (EXTERNAL TK)	□	□
ON / OFF (EXTERNAL TK)	-	-
DIGITAL (DVB)		
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■
EPG NOW AND NEXT	-	-
EPG TIMELINE SCHEDULE	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■
SMART CARD	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■
APPROVALS		
FREEVIEW HD	☐	☐
CABLE READY HD	☐	☐
BOXER HD	☐	☐
COMHEM	☐	☐
ANTENNA HD READY	☐	☐
CANAL READY	-	-
CI+	■	■
FREESAT HD	-	-
RIKS TV	☐	☐
ZIGGO	☐	☐
UPC	☐	☐
D-SMART READY	☐	☐
DIGITURK READY	-	-
ORF	☐	☐
FRANSAT & FRANSAT CONNECT	☐	☐
M7	☐	☐
TELENET	☐	☐
TDI HIBRIDA	☐	☐
FREEVIEW PLUS	-	-
HD+	☐	☐
R2	☐	☐
LA TIVU	-	-
LA TIVU 4K	☐	☐
MINDIG	☐	☐
SAORVIEW	☐	☐
SKY DEUTSCHLAND	☐	☐
STOFA	☐	☐
YOUSEE	☐	☐
TKGS	☐	☐
TIVIBU	☐	☐
UNITYMEDIA	☐	☐
DTVP	☐	☐
VOO	☐	☐
LEVIRA	☐	☐
CRA	☐	☐

LOVESTV	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐
EVOTV	-	-
NCA	-	-
DIGITAL TV	☐	☐
POLSAT	-	-
EPT HYBRID	☐	☐
DVD FEATURES		
CD COMPATIBLE PLAYBACK	-	-
DVD COMPATIBLE PLAYBACK	-	-
CD-R COMPATIBLE PLAYBACK	-	-
CD-RW COMPATIBLE PLAYBACK	-	-
DVD-R COMPATIBLE PLAYBACK	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-
MP3 COMPATIBLE PLAYBACK	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-
SACD COMPATIBLE PLAYBACK	-	-
S-VHS COMPATIBLE PLAYBACK	-	-
DVD+R	-	-
DVD+RW	-	-
CD-AUDIO	-	-
KODAK PICTURE CD	-	-
DVD RAM	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-
MULTIPLE LANGUAGE OPTIONS	-	-
MULTIPLE CAMERA ANGLES	-	-
PLAYBACK ZOOM	-	-
PARENTAL SETTINGS	-	-
REGION	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-
SCREEN SAVER	-	-
TRANSPARENCY LEVELS	-	-
RETURN TO FACTORY SETTINGS	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-
DVD MENU LANGUAGES	-	-
COMMUNICATION		
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■
eARC (W/ HDMI 2.1) - G31	■	■
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	■	■
VRR (Variable Refresh Rate)	-	-
QMS (Quick Media Switching)	-	-
OPERATION		
ROCKER SWITCH	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)		
WALL HANGING KIT	☐	☐
CERTIFICATES		
WEEE COMPLIANT	■	■
ROHS COMPLIANT	■	■

MB185 Google TV	43"	50"	55"	65"	70"	75"
	MB185	MB185	MB185	MB185	MB185	MB185
MAIN FEATURES						
FULL HD	-	-	-	-	-	-
ULTRA HD	■	■	■	■	■	■
100HZ (FLICKER FREE)	-	-	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	□	□	□	□	□	□
LED EDGE BACK LIGHT (ELED)	□	□	□	□	□	□
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-	-	-
OLED	-	-	-	-	-	-
MPEG4	■	■	■	■	■	■
HEVC (H.265)	■	■	■	■	■	■
ISDB-TB	-	-	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-	-	-
3DTV	-	-	-	-	-	-
3DTV TYPE	-	-	-	-	-	-
2D - 3D CONVERSION	-	-	-	-	-	-
MEDIA PLAYER	■	■	■	■	■	■
PVR READY (USB RECORD)	□	□	□	□	□	□
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1	2.1	2.1	2.1	2.1
SCREEN FORMAT						
VISIBLE SCREEN SIZE	109	127	140	164	177	190
SCREEN FORMAT	16:9	16:9	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS						
TUNER VHF/UHF/CABLE	■	■	■	■	■	■
APS / ATS (AUTO SEARCH)	■	■	■	■	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	200	200	200	200	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	■	■	■	■	■	■
NTSC	-	-	-	-	-	-
DUAL TUNER	-	-	-	-	-	-
UNICABLE	□	□	□	□	□	□
DISEQC	□	□	□	□	□	□
SOUND						
GER(D) + NICAM STEREO	■	■	■	■	■	■
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	■	■	■	■	■	■
DDCO	-	-	-	-	-	-
MS10 (DOLBY)	-	-	-	-	-	-
MS11 (DOLBY)	-	-	-	-	-	-
MS12 (DOLBY)	■	■	■	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■	■	■	■
DOLBY ATMOS	■	■	■	■	■	■
DOLBY AC4	■	■	■	■	■	■
DTS TRUSURROUND	-	-	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-	-	-
DTS HD	□	□	□	□	□	□
DTS VIRTUAL:X	□	□	□	□	□	□
DTS:X	□	□	□	□	□	□
SURROUND SOUND	-	-	-	-	-	-
AUDIO OUTPUT POWER (RMS)	2x10W	2x10W	2x10W	2x12W	2x12W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	12W	12W	12W	12W	12W
PLAY-FI	-	-	-	-	-	-
CONNECTORS						
RF: TV/CATV 75 OHMS COAXIAL	■	■	■	■	■	■
SCART (EUROCONNECTOR)	-	-	-	-	-	-
SVHS VIA SCART	-	-	-	-	-	-
RGB VIA SCART2	-	-	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	-	-	-	-	-	-

COMPOSITE VIDEO OUT	-	-	-	-	-	-
AUDIO LINE OUT	-	-	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■	■	■	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-	-	-
PC AUDIO IN	-	-	-	-	-	-
HDMI 1 (Side)	■	■	■	■	■	■
HDMI 2 (ARC) (Side)	■	■	■	■	■	■
HDMI 3 (Back)	■	■	■	■	■	■
HDMI 4 (Back)	-	-	-	-	-	-
HDCP (1.2/ 2.0 / 2.2 / 2.3)	2.3	2.3	2.3	2.3	2.3	2.3
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■	■	■	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-	-	-	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-	-	-
INTERNAL SUBWOOFER	-	□	□	□	□	□
USB1 (2.0) (Side)	■	■	■	■	■	■
USB2 (2.0) (Side)	■	■	■	■	■	■
USB3 (2.0)	-	-	-	-	-	-
USB4 (2.0)	-	-	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■	■	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-	-	-	-
RS232 (IN/OUT)	-	-	-	-	-	-
DIGITAL SW UPDATE	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA
PIP / PAP / PAT						
TV PICTURE IN PC (PC PIP)	-	-	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-	-	-
PICTURE						
ZOOM MODES (ASPECT RATIO)	■	■	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D	3D	3D
CTI/LTI	■	■	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■	■	■
PSEUDO(SOFT) PIXELLENCE	-	-	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION) - G31	□	□	□	□	□	□
PICTURE WIZARD	-	-	-	-	-	-
HDR (HDR10, HLG)	■	■	■	■	■	■
DOLBY VISION HDR	■	■	■	■	■	■
HDR10+ - G31	□	□	□	□	□	□
BLUE STRETCH	■	■	■	■	■	■
MICRO DIMMING	■	■	■	■	■	■
DE-CONTOUR - G31	■	■	■	■	■	■
GAMUT MAPPING	■	■	■	■	■	■
SDR TO HDR (Max Vivid menu item)	■	■	■	■	■	■
SUPER RESOLUTION	■	■	■	■	■	■
FILM MAKER MODE	■	■	■	■	■	■
DOLBY VISION IQ	□	□	□	□	□	□
AI	-	-	-	-	-	-
TEXT						
FAST TEXT	■	■	■	■	■	■
NUMBER OF TELETEXT PAGES	1000	1000	1000	1000	1000	1000
CLOSED CAPTION	-	-	-	-	-	-

CONNECTIVITY FEATURES						
HBBTV (2.0.3)	■	■	■	■	■	■
FREEVIEW PLAY - G31	□	□	□	□	□	□
WIFI (VIA USB DONGLE)	-	-	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	■	■	■	■	■	■
DLNA 1.5	-	-	-	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-	-	-
BLUETOOTH	■	■	■	■	■	■
HOTEL TV	-	-	-	-	-	-
DIGITAL SIGNAGE	-	-	-	-	-	-
PORTAL SUPPORT	-	-	-	-	-	-
WIFI (INTERNAL)	■	■	■	■	■	■
OPEN INTERNET	-	-	-	-	-	-
BBC IPLAYER, NEWS, SPORTS, CRB - G31	□	□	□	□	□	□
NETFLIX	■	■	■	■	■	■
NETFLIX 4K	■	■	■	■	■	■
AMAZON PRIME VIDEO	■	■	■	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-	-	-	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-	-	-	-
SKY NOW TV	-	-	-	-	-	-
DISNEY+	■	■	■	■	■	■
MIRACAST	-	-	-	-	-	-
GOOGLECAST	■	■	■	■	■	■
INTEL WI-DI	-	-	-	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	□	□	-	-
WiFi 6	□	□	□	□	□	□
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	□	□	□	□	-	-
ADDITIONAL FEATURES						
NTSC PLAYBACK	-	-	-	-	-	-
SLEEP TIMER	■	■	■	■	■	■
HOTEL MODE (PASSIVE)	-	-	-	-	-	-
CHILD LOCK	-	-	-	-	-	-
NO IDENT TIMER	■	■	■	■	■	■
TOUCH KEY PAD	-	-	-	-	-	-
ONBOARD TACT SWITCH	□	□	□	□	□	□
USB CLONING	-	-	-	-	-	-
TOUCH SENSE	-	-	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-	-	-
AIR MOUSE	-	-	-	-	-	-
FEATURE OSD	-	-	-	-	-	-
ANIMATED FEATURE OSD	□	□	□	□	□	□
E-IB	■	■	■	■	■	■
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■	■	■	■
JOYSTICK (EXTERNAL TK)	□	□	□	□	□	□
ON / OFF (EXTERNAL TK)	□	□	□	□	□	□
DIGITAL (DVB)						
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	800	800	800	800	800	800
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■	■	■	■
EPG NOW AND NEXT	-	-	-	-	-	-
EPG TIMELINE SCHEDULE	■	■	■	■	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■	■	■	■
SMART CARD	-	-	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■	■	■	■
APPROVALS						
FREEVIEW HD	□	□	□	□	□	□
CABLE READY HD	□	□	□	□	□	□
BOXER HD	□	□	□	□	□	□
COMHEM	□	□	□	□	□	□
ANTENNA HD READY	□	□	□	□	□	□
CANAL READY	-	-	-	-	-	-
CI+	■	■	■	■	■	■
FREESAT HD	-	-	-	-	-	-
RIKS TV	□	□	□	□	□	□
ZIGGO	□	□	□	□	□	□
UPC	□	□	□	□	□	□
D-SMART READY	□	□	□	□	□	□
DIGITURK READY	-	-	-	-	-	-
ORF	□	□	□	□	□	□
FRANSAT & FRANSAT CONNECT	□	□	□	□	□	□
M7	□	□	□	□	□	□
TELENET	□	□	□	□	□	□
TDT HIBRIDA	□	□	□	□	□	□
FREEVIEW PLUS	-	-	-	-	-	-
HD+	□	□	□	□	□	□
R2	□	□	□	□	□	□
LA TIVU	-	-	-	-	-	-
LA TIVU 4K	□	□	□	□	□	□
MINDIG	□	□	□	□	□	□
SAORVIEW	□	□	□	□	□	□
SKY DEUTSCHLAND	□	□	□	□	□	□
STOFA	□	□	□	□	□	□
YOUSEE	□	□	□	□	□	□
TKGS	□	□	□	□	□	□
TIVIBU	□	□	□	□	□	□
UNITYMEDIA	□	□	□	□	□	□
DTVP	□	□	□	□	□	□
VOO	□	□	□	□	□	□
LEVIRA	□	□	□	□	□	□
CRA	□	□	□	□	□	□

LOVESTV	☐	☐	☐	☐	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐	☐	☐	☐	☐
EVOTV	-	-	-	-	-	-
NCA	-	-	-	-	-	-
DIGITAL TV	☐	☐	☐	☐	☐	☐
POLSAT	-	-	-	-	-	-
EPT HYBRID	☐	☐	☐	☐	☐	☐
DVD FEATURES						
CD COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-	-	-
DVD+R	-	-	-	-	-	-
DVD+RW	-	-	-	-	-	-
CD-AUDIO	-	-	-	-	-	-
KODAK PICTURE CD	-	-	-	-	-	-
DVD RAM	-	-	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-	-	-
PLAYBACK ZOOM	-	-	-	-	-	-
PARENTAL SETTINGS	-	-	-	-	-	-
REGION	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-	-	-	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-	-	-	-	-
SCREEN SAVER	-	-	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-	-	-
COMMUNICATION						
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■	■	■	■
eARC (W/ HDMI 2.1) - G31	■	■	■	■	■	■
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	■	■	■	■	■	■
VRR (Variable Refresh Rate)	☐	☐	☐	☐	☐	☐
QMS (Quick Media Switching)	☐	☐	☐	☐	☐	☐
OPERATION						
ROCKER SWITCH	☐	☐	☐	☐	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)						
WALL HANGING KIT	☐	☐	☐	☐	☐	☐
CERTIFICATES						
WEEE COMPLIANT	■	■	■	■	■	■
ROHS COMPLIANT	■	■	■	■	■	■

MB186	24"	32"	43"
	MB186	MB186	MB186
MAIN FEATURES			
FULL HD	-	☐	☒
ULTRA HD	-	-	-
100HZ (FLICKER FREE)	-	-	-
LED DIRECT BACK LIGHT (DLED)	☐	☐	☐
LED EDGE BACK LIGHT (ELED)	☐	☐	☐
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-
OLED	-	-	-
MPEG4	☒	☒	☒
HEVC (H.265)	☒	☒	☒
ISDB-TB	-	-	-
TV-DVD PLAYER COMBI	-	-	-
3DTV	-	-	-
3DTV TYPE	-	-	-
2D - 3D CONVERSION	-	-	-
MEDIA PLAYER	☒	☒	☒
PVR READY (USB RECORD)	☐	☐	☐
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	1.4	1.4	1.4
SCREEN FORMAT			
VISIBLE SCREEN SIZE	61	81	109
SCREEN FORMAT	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS			
TUNER VHF/UHF/CABLE	☒	☒	☒
APS / ATS (AUTO SEARCH)	☒	☒	☒
PROGRAM STORAGE CAPACITY (ANALOG)	200	200	200
PAL SECAM B/G D/K I/I' (TRI STANDART)	☒	☒	☒
NTSC	-	-	-
DUAL TUNER	-	-	-
UNICABLE	☐	☐	☐
DISEQC	☐	☐	☐
SOUND			
GER(D) + NICAM STEREO	☒	☒	☒
EQUALIZER (5 BAND)	5 band	5 band	5 band
BASS / TREBLE	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	☒	☒	☒
DDCO	-	-	-
MS10 (DOLBY)	-	-	-
MS11 (DOLBY)	-	-	-
MS12 (DOLBY)	☒	☒	☒
DOLBY AUDIO PROCESSING (DAP)	☒	☒	☒
DOLBY ATMOS	-	-	-
DOLBY AC4	☒	☒	☒
DTS TRUSURROUND	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-
DTS HD	☐	☐	☐
DTS VIRTUAL:X	☐	☐	☐
DTS:X	-	-	-
SURROUND SOUND	-	-	-
AUDIO OUTPUT POWER (RMS)	2x2,5W	2x6W	2x8W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	-	-
PLAY-FI	-	-	-
CONNECTORS			
RF: TV/CATV 75 OHMS COAXIAL	☒	☒	☒
SCART (EUROCONNECTOR)	-	-	-
SVHS VIA SCART	-	-	-
RGB VIA SCART2	-	-	-
COMPOSITE VIDEO/AUDIO IN	☒	☒	☒

COMPOSITE VIDEO OUT	-	-	-
AUDIO LINE OUT	-	-	-
AUDIO LINE OUT VIA HEADPHONE	■	■	■
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-
YPBPR (COMPONENT) IN	-	-	-
YPBPR IN VIA VGA	■	■	■
VGA (PC IN: D-SUB15)	■	■	■
PC AUDIO IN	via Back AV	via Back AV	via Back AV
HDMI 1 (Side)	■	■	■
HDMI 2 (ARC) (Back)	■	■	■
HDMI 3 (Back)	-	-	-
HDMI 4 (Back)	-	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	■	■	■
DIGITAL AUDIO OUTPUT (OPTIC)	-	-	-
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-	-
INTERNAL SUBWOOFER	-	-	-
USB1 (2.0) (Side)	■	■	■
USB2 (2.0) (Side)	-	-	-
USB3 (2.0)	-	-	-
USB4 (2.0)	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-
RS232 (IN/OUT)	via VGA	via VGA	via VGA
DIGITAL SW UPDATE	USB / GOTA	USB / GOTA	USB / GOTA
PIP / PAP / PAT			
TV PICTURE IN PC (PC PIP)	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-
PICTURE			
ZOOM MODES (ASPECT RATIO)	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D
CTI/LTI	■	■	■
DIGITAL NOISE REDUCTION	■	■	■
PSEUDO(SOFT) PIXELLENCE	-	-	-
DYNAMIC CONTRAST	■	■	■
PROGRESSIVE SCAN	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION)	-	-	-
PICTURE WIZARD	-	-	-
HDR (HDR10, HLG)	■	■	■
DOLBY VISION HDR	-	-	-
HDR10+	□	□	□
BLUE STRETCH	■	■	■
MICRO DIMMING	■	■	■
DE-CONTOUR	📺	📺	📺
GAMUT MAPPING	■	■	■
SDR TO HDR	■	■	■
SUPER RESOLUTION	■	■	■
FILM MAKER MODE	-	-	-
DOLBY VISION IQ	-	-	-
AI	-	-	-
TEXT			
FAST TEXT	■	■	■
NUMBER OF TELETEXT PAGES	1000	1000	1000
CLOSED CAPTION	-	-	-

CONNECTIVITY FEATURES			
HBBTV (2.0.2)	■	■	■
FREEVIEW PLAY	-	-	-
WIFI (VIA USB DONGLE)	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	-	-	-
DLNA 1.5	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-
BLUETOOTH	■	■	■
HOTEL TV	-	-	-
DIGITAL SIGNAGE	-	-	-
PORTAL SUPPORT	-	-	-
WIFI (INTERNAL)	■	■	■
OPEN INTERNET	-	-	-
BBC IPLAYER, NEWS, SPORTS, CRB	-	-	-
NETFLIX	■	■	■
NETFLIX 4K	-	-	-
AMAZON PRIME VIDEO	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-
SKY NOW TV	-	-	-
DISNEY+	■	■	■
MIRACAST	-	-	-
GOOGLECAST	■	■	■
INTEL WI-DI	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	-
WiFi 6	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-
ADDITIONAL FEATURES			
NTSC PLAYBACK	Via Back AV	Via Back AV	Via Back AV
SLEEP TIMER	■	■	■
HOTEL MODE (PASSIVE)	-	-	-
CHILD LOCK	-	-	-
NO IDENT TIMER	■	■	■
TOUCH KEY PAD	-	-	-
ONBOARD TACT SWITCH	-	-	-
USB CLONING	-	-	-
TOUCH SENSE	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	□	□	□
AIR MOUSE	-	-	-
FEATURE OSD	-	-	-
ANIMATED FEATURE OSD	□	□	□
E-IB	■	■	■
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■
JOYSTICK (EXTERNAL TK)	-	-	-
ON / OFF (EXTERNAL TK)	-	-	-
DIGITAL (DVB)			
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	1000	1000	1000
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000

MENU LANGUAGES	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■
EPG NOW AND NEXT	-	-	-
EPG TIMELINE SCHEDULE	■	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■
SMART CARD	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■
APPROVALS			
FREEVIEW HD	-	-	-
CABLE READY HD	□	□	□
BOXER HD	□	□	□
COMHEM	□	□	□
ANTENNA HD READY	□	□	□
CANAL READY	-	-	-
CI+	■	■	■
FREESAT HD	-	-	-
RIKS TV	□	□	□
ZIGGO	□	□	□
UPC	□	□	□
D-SMART READY	□	□	□
DIGITURK READY	□	□	□
ORF	□	□	□
FRANSAT & FRANSAT CONNECT	□	□	□
M7	□	□	□
TELENET	□	□	□
TDT HIBRIDA	□	□	□
FREEVIEW PLUS	-	-	-
HD+	□	□	□
R2	□	□	□
LA TIVU	□	□	□
LA TIVU 4K	-	-	-
MINDIG	□	□	□
SAORVIEW	□	□	□
SKY DEUTSCHLAND	□	□	□
STOFA	□	□	□
YOUSEE	□	□	□
TKGS	□	□	□
TIVIBU	□	□	□
UNITYMEDIA	□	□	□
DTVP	□	□	□
VOO	□	□	□
LEVIRA	□	□	□
CRA	□	□	□

LOVESTV	☐	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐	☐
EVOTV	-	-	-
NCA	-	-	-
DIGITAL TV	☐	☐	☐
POLSAT	-	-	-
EPT HYBRID	☐	☐	☐
DVD FEATURES			
CD COMPATIBLE PLAYBACK	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-
DVD+R	-	-	-
DVD+RW	-	-	-
CD-AUDIO	-	-	-
KODAK PICTURE CD	-	-	-
DVD RAM	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-
PLAYBACK ZOOM	-	-	-
PARENTAL SETTINGS	-	-	-
REGION	-	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-	-
SCREEN SAVER	-	-	-
TRANSPARENCY LEVELS	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-
DVD MENU LANGUAGES	-	-	-
COMMUNICATION			
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■
eARC (W/ HDMI 2.1)	-	-	-
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	■	■	■
VRR (VARIABLE REFRESH RATE)	-	-	-
QMS (QUICK MEDIA SWITCHING)	-	-	-
OPERATION			
ROCKER SWITCH	☐	☐	☐
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)			
WALL HANGING KIT	☐	☐	☐
CERTIFICATES			
WEEE COMPLIANT	■	■	■
ROHS COMPLIANT	■	■	■

MB481	24"	32"	40"	43"
	MB481	MB481	MB481	MB481
MAIN FEATURES				
FULL HD	-	□	■	■
ULTRA HD	-	-	-	-
100HZ (FLICKER FREE)	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	-	■	■	■
LED EDGE BACK LIGHT (ELED)	■	-	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-
OLED	-	-	-	-
MPEG4	■	■	■	■
HEVC (H.265)	■	■	■	■
ISDB-TB	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-
3DTV	-	-	-	-
3DTV TYPE	-	-	-	-
2D - 3D CONVERSION	-	-	-	-
MEDIA PLAYER	■	■	■	■
PVR READY (USB RECORD)	-	-	-	-
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	1.4	1.4	1.4	1.4
SCREEN FORMAT				
VISIBLE SCREEN SIZE	61	81	102	109
SCREEN FORMAT	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS				
TUNER VHF/UHF/CABLE	■	■	■	■
APS / ATS (AUTO SEARCH)	■	■	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	-	-	-	-
PAL SECAM B/G D/K I/I' (TRI STANDART)	-	-	-	-
NTSC	-	-	-	-
DUAL TUNER	-	-	-	-
UNICABLE	□	□	□	□
DISEQC	□	□	□	□
SOUND				
GER(D) + NICAM STEREO	■	■	■	■
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	-	-	-	-
DDCO	-	-	-	-
MS10 (DOLBY)	-	-	-	-
MS11 (DOLBY)	-	-	-	-
MS12 (DOLBY)	■	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■	■
DOLBY ATMOS	-	-	-	-
DOLBY AC4	■	■	■	■
DTS TRUSURROUND	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-
DTS HD	□	□	□	□
DTS VIRTUAL:X	□	□	□	□
DTS:X	-	-	-	-
SURROUND SOUND	-	-	-	-
AUDIO OUTPUT POWER (RMS)	2x2.5W	2x6W	2x8W	2x8W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	-	-	-
PLAY-FI	-	-	-	-
CONNECTORS				
RF: TV/CATV 75 OHMS COAXIAL	■	■	■	■
SCART (EUROCONNECTOR)	-	-	-	-
SVHS VIA SCART	-	-	-	-
RGB VIA SCART2	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	■	■	■	■

COMPOSITE VIDEO OUT	-	-	-	-
AUDIO LINE OUT	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	-	-	-	-
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-
PC AUDIO IN	-	-	-	-
HDMI 1 (Side)	■	■	■	■
HDMI 2 (ARC) (Back)	■	■	■	■
HDMI 3 (Back)	-	-	-	-
HDMI 4 (Back)	-	-	-	-
HDCP (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	■	■	■	■
DIGITAL AUDIO OUTPUT (OPTIC)	-	-	-	-
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-
INTERNAL SUBWOOFER	-	-	-	-
USB1 (2.0) (Side)	■	■	■	■
USB2 (2.0) (Side)	-	-	-	-
USB3 (2.0)	-	-	-	-
USB4 (2.0)	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-	-
RS232 (IN/OUT)	-	-	-	-
DIGITAL SW UPDATE	USB / OTA	USB / OTA	USB / OTA	USB / OTA
PIP / PAP / PAT				
TV PICTURE IN PC (PC PIP)	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-
PICTURE				
ZOOM MODES (ASPECT RATIO)	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D
CTI/LTI	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■
PSEUDO(SOFT) PIXELLENCE	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION)	-	-	-	-
PICTURE WIZARD	-	-	-	-
HDR (HDR10, HLG)	■	■	■	■
DOLBY VISION HDR	-	-	-	-
HDR10+	-	-	-	-
BLUE STRETCH	-	-	-	-
MICRO DIMMING	■	■	■	■
DE-CONTOUR	-	-	-	-
GAMUT MAPPING	■	■	■	■
SDR TO HDR	-	-	-	-
SUPER RESOLUTION	■	■	■	■
FILM MAKER MODE	-	-	-	-
DOLBY VISION IQ	-	-	-	-
AI	-	-	-	-
TEXT				
FAST TEXT	-	-	-	-
NUMBER OF TELETEXT PAGES	-	-	-	-

CLOSED CAPTION	-	-	-	-
CONNECTIVITY FEATURES				
HBBTV (2.0.2)	■	■	■	■
FREEVIEW PLAY	□	□	□	□
WIFI (VIA USB DONGLE)	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	-	-	-	-
DLNA 1.5	-	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-
BLUETOOTH	■	■	■	■
HOTEL TV	-	-	-	-
DIGITAL SIGNAGE	-	-	-	-
PORTAL SUPPORT	■	■	■	■
WIFI (INTERNAL)	■	■	■	■
OPEN INTERNET	■	■	■	■
BBC IPLAYER, NEWS, SPORTS, CRB	■	■	■	■
NETFLIX	■	■	■	■
NETFLIX 4K	-	-	-	-
AMAZON PRIME VIDEO	■	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	■	■	■	■
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-	-
SKY NOW TV	-	-	-	-
DISNEY+	■	■	■	■
MIRACAST	-	-	-	-
GOOGLECAST	-	-	-	-
INTEL WI-DI	-	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	-	-
WiFi 6	-	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-	-
ADDITIONAL FEATURES				
NTSC PLAYBACK	-	-	-	-
SLEEP TIMER	■	■	■	■
HOTEL MODE (PASSIVE)	-	-	-	-
CHILD LOCK	■	■	■	■
NO IDENT TIMER	-	-	-	-
TOUCH KEY PAD	-	-	-	-
ONBOARD TACT SWITCH	□	□	□	□
USB CLONING	-	-	-	-
TOUCH SENSE	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-
AIR MOUSE	-	-	-	-
FEATURE OSD	-	-	-	-
ANIMATED FEATURE OSD	-	-	-	-
E-IB	-	-	-	-
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■	■
JOYSTICK (EXTERNAL TK)	□	□	□	□
ON / OFF (EXTERNAL TK)	□	□	□	□
DIGITAL (DVB)				
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	1000	1000	1000	1000
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000
MENU LANGUAGES	Deutsch,English,Français, Espanol,Italiano,Polski	Deutsch,English,Français, Espanol,Italiano,Polski	Deutsch,English,Français, Espanol,Italiano,Polski	Deutsch,English,Français, Espanol,Italiano,Polski
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■	■
EPG NOW AND NEXT	-	-	-	-
EPG TIMELINE SCHEDULE	■	■	■	■

COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■	■
SMART CARD	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■	■
APPROVALS				
FREEVIEW HD	-	-	-	-
CABLE READY HD	-	-	-	-
BOXER HD	-	-	-	-
COMHEM	-	-	-	-
ANTENNA HD READY	-	-	-	-
CANAL READY	-	-	-	-
CI+	1.4	1.4	1.4	1.4
FREESAT HD	-	-	-	-
RIKS TV	-	-	-	-
ZIGGO	-	-	-	-
UPC	-	-	-	-
D-SMART READY	-	-	-	-
DIGITURK READY	-	-	-	-
ORF	□	□	□	□
FRANSAT & FRANSAT CONNECT	□	□	□	□
M7	□	□	□	□
TELENET	-	-	-	-
TDT HIBRIDA	□	□	□	□
FREEVIEW PLUS	-	-	-	-
HD+	-	-	-	-
R2	-	-	-	-
LA TIVU	□	□	□	□
LA TIVU 4K	-	-	-	-
MINDIG	-	-	-	-
SAORVIEW	-	-	-	-
SKY DEUTSCHLAND	□	□	□	□
STOFA	-	-	-	-
YOUSEE	-	-	-	-
TKGS	-	-	-	-
TIVIBU	-	-	-	-
UNITYMEDIA	-	-	-	-
DTVP	-	-	-	-
VOO	-	-	-	-
LEVIRA	-	-	-	-
CRA	-	-	-	-
LOVESTV	□	□	□	□
SIMPLITV & SIMPLITV SAT	□	□	□	□
EVOTV	-	-	-	-
NCA	-	-	-	-
DIGITAL TV	-	-	-	-
POLSAT	-	-	-	-
EPT HYBRID	-	-	-	-
DVD FEATURES				
CD COMPATIBLE PLAYBACK	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-
DVD+R	-	-	-	-

DVD+RW	-	-	-	-
CD-AUDIO	-	-	-	-
KODAK PICTURE CD	-	-	-	-
DVD RAM	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-
PLAYBACK ZOOM	-	-	-	-
PARENTAL SETTINGS	-	-	-	-
REGION	-	-	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-	-	-
SCREEN SAVER	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-
COMMUNICATION				
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■	■
eARC (W/ HDMI 2.1)	-	-	-	-
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	-	-	-	-
VRR (VARIABLE REFRESH RATE)	-	-	-	-
QMS (QUICK MEDIA SWITCHING)	-	-	-	-
OPERATION				
ROCKER SWITCH	-	-	-	-
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)				
WALL HANGING KIT	□	□	□	□
CERTIFICATES				
WEEE COMPLIANT	■	■	■	■
ROHS COMPLIANT	■	■	■	■

MB190	43"	50"	55"	65"
	MB190	MB190	MB190	MB190
MAIN FEATURES				
FULL HD	-	-	-	-
ULTRA HD	■	■	■	■
100HZ (FLICKER FREE)	-	-	-	-
LED DIRECT BACK LIGHT (DLED)	■	■	■	■
LED EDGE BACK LIGHT (ELED)	-	-	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-	-
OLED	-	-	-	-
MPEG4	■	■	■	■
HEVC (H.265)	■	■	■	■
ISDB-TB	-	-	-	-
TV-DVD PLAYER COMBI	-	-	-	-
3DTV	-	-	-	-
3DTV TYPE	-	-	-	-
2D - 3D CONVERSION	-	-	-	-
MEDIA PLAYER	■	■	■	■
PVR READY (USB RECORD)	-	-	-	-
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.0/2.1	2.0/2.1	2.0/2.1	2.0/2.1
SCREEN FORMAT				
VISIBLE SCREEN SIZE	109	127	140	164
SCREEN FORMAT	16:9	16:9	16:9	16:9
RECEPTION & TUNING SYSTEMS				
TUNER VHF/UHF/CABLE	■	■	■	■
APS / ATS (AUTO SEARCH)	■	■	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	-	-	-	-
PAL SECAM B/G D/K I/I' (TRI STANDART)	-	-	-	-
NTSC	-	-	-	-
DUAL TUNER	-	-	-	-
UNICABLE	□	□	□	□
DISEQC	□	□	□	□
SOUND				
GER(D) + NICAM STEREO	■	■	■	■
EQUALIZER (5 BAND)	5 band	5 band	5 band	5 band
BASS / TREBLE	-	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	-	-	-	-
DDCO	-	-	-	-
MS10 (DOLBY)	-	-	-	-
MS11 (DOLBY)	-	-	-	-
MS12 (DOLBY)	■	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■	■
DOLBY ATMOS	■	■	■	■
DOLBY AC4	■	■	■	■
DTS TRUSURROUND	-	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-	-
DTS HD	-	-	-	-
DTS VIRTUAL:X	-	-	-	-
DTS:X	-	-	-	-
SURROUND SOUND	-	-	-	-
AUDIO OUTPUT POWER (RMS)	2x8W	2x10W	2x10W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	-	2x12W	2x12W	2x12W
PLAY-FI	-	-	-	-
CONNECTORS				
RF: TV/CATV 75 OHMS COAXIAL	■	■	■	■
SCART (EUROCONNECTOR)	-	-	-	-
SVHS VIA SCART	-	-	-	-
RGB VIA SCART2	-	-	-	-
COMPOSITE VIDEO/AUDIO IN	-	-	-	-

COMPOSITE VIDEO OUT	-	-	-	-
AUDIO LINE OUT	-	-	-	-
AUDIO LINE OUT VIA HEADPHONE	-	-	-	-
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-	-
YPBPR (COMPONENT) IN	-	-	-	-
YPBPR IN VIA VGA	-	-	-	-
VGA (PC IN: D-SUB15)	-	-	-	-
PC AUDIO IN	-	-	-	-
HDMI 1 (Side)	■	■	■	■
HDMI 2 (ARC) (Side)	■	■	■	■
HDMI 3 (Side)	■	■	■	■
HDMI 4 (Back)	-	-	-	-
HDCP (1.2/ 2.0 / 2.2)	1.4/2.2	1.4/2.2	1.4/2.2	1.4/2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-	-	-
INTERNAL SUBWOOFER	-	□	□	□
USB1 (2.0) (Side)	■	■	■	■
USB2 (2.0) (Side)	■	■	■	■
USB3 (2.0)	-	-	-	-
USB4 (2.0)	-	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-	-
RS232 (IN/OUT)	-	-	-	-
DIGITAL SW UPDATE	USB / OTA	USB / OTA	USB / OTA	USB / OTA
PIP / PAP / PAT				
TV PICTURE IN PC (PC PIP)	-	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-	-
PICTURE				
ZOOM MODES (ASPECT RATIO)	■	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D	3D
CTI/LTI	■	■	■	■
DIGITAL NOISE REDUCTION	■	■	■	■
PSEUDO(SOFT) PIXELLENCE	-	-	-	-
DYNAMIC CONTRAST	■	■	■	■
PROGRESSIVE SCAN	■	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION)	■	■	■	■
PICTURE WIZARD	-	-	-	-
HDR (HDR10, HLG)	■	■	■	■
DOLBY VISION HDR	■	■	■	■
HDR10+	■	■	■	■
BLUE STRETCH	■	■	■	■
MICRO DIMMING	■	■	■	■
DE-CONTOUR	-	-	-	-
GAMUT MAPPING	■	■	■	■
SDR TO HDR (Max Vivid menu item)	-	-	-	-
SUPER RESOLUTION	■	■	■	■
FILM MAKER MODE	■	■	■	■
DOLBY VISION IQ	-	-	-	-
AI	-	-	-	-
TEXT				
FAST TEXT	-	-	-	-
NUMBER OF TELETEXT PAGES	-	-	-	-

CLOSED CAPTION	-	-	-	-
CONNECTIVITY FEATURES				
HBBTV (2.0.2)	2.0.4	2.0.4	2.0.4	2.0.4
FREEVIEW PLAY	Freely	Freely	Freely	Freely
WIFI (VIA USB DONGLE)	-	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	■	■	■	■
DLNA 1.5	-	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-	-
BLUETOOTH	■	■	■	■
HOTEL TV	-	-	-	-
DIGITAL SIGNAGE	-	-	-	-
PORTAL SUPPORT	-	-	-	-
WIFI (INTERNAL)	■	■	■	■
OPEN INTERNET	■	■	■	■
BBC IPLAYER, NEWS, SPORTS, CRB	■	■	■	■
NETFLIX	■	■	■	■
NETFLIX 4K	■	■	■	■
AMAZON PRIME VIDEO	■	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-	-
SKY NOW TV	-	-	-	-
DISNEY+	■	■	■	■
MIRACAST	-	-	-	-
GOOGLECAST	-	-	-	-
INTEL WI-DI	-	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	-	-
WiFi 6	-	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-	-
ADDITIONAL FEATURES				
NTSC PLAYBACK	-	-	-	-
SLEEP TIMER	■	■	■	■
HOTEL MODE (PASSIVE)	-	-	-	-
CHILD LOCK	■	■	■	■
NO IDENT TIMER	-	-	-	-
TOUCH KEY PAD	-	-	-	-
ONBOARD TACT SWITCH	-	-	-	-
USB CLONING	-	-	-	-
TOUCH SENSE	-	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-	-
AIR MOUSE	-	-	-	-
FEATURE OSD	-	-	-	-
ANIMATED FEATURE OSD	-	-	-	-
E-IB	-	-	-	-
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■	■
JOYSTICK (EXTERNAL TK)	-	-	-	-
ON / OFF (EXTERNAL TK)	■	■	■	■
DIGITAL (DVB)				
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	1000	1000	1000	1000
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000	10000
MENU LANGUAGES	Deutsch,English,Français, Espanol,Italiano,Polski	Deutsch,English,Français, Espanol,Italiano,Polski	Deutsch,English,Français, Espanol,Italiano,Polski	Deutsch,English,Français, Espanol,Italiano,Polski
DIGITAL TELETEXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■	■
EPG NOW AND NEXT	-	-	-	-
EPG TIMELINE SCHEDULE	■	■	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■	■

SMART CARD	-	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■	■
APPROVALS				
FREEVIEW HD	-	-	-	-
CABLE READY HD	☐	☐	☐	☐
BOXER HD	☐	☐	☐	☐
COMHEM	-	-	-	-
ANTENNA HD READY	☐	☐	☐	☐
CANAL READY	-	-	-	-
CI+	■	■	■	■
FREESAT HD	-	-	-	-
RIKS TV	☐	☐	☐	☐
ZIGGO	☐	☐	☐	☐
UPC	☐	☐	☐	☐
D-SMART READY	-	-	-	-
DIGITURK READY	-	-	-	-
ORF	☐	☐	☐	☐
FRANSAT & FRANSAT CONNECT	☐	☐	☐	☐
M7	☐	☐	☐	☐
TELENET	☐	☐	☐	☐
TDT HIBRIDA	☐	☐	☐	☐
FREEVIEW PLUS	-	-	-	-
HD+	☐	☐	☐	☐
R2	-	-	-	-
LA TIVU	-	-	-	-
LA TIVU 4K	☐	☐	☐	☐
MINDIG	☐	☐	☐	☐
SAORVIEW	☐	☐	☐	☐
SKY DEUTSCHLAND	☐	☐	☐	☐
STOFA	-	-	-	-
YOUSEE	☐	☐	☐	☐
TKGS	-	-	-	-
TIVIBU	-	-	-	-
UNITYMEDIA	☐	☐	☐	☐
DTVP	☐	☐	☐	☐
VOO	☐	☐	☐	☐
LEVIRA	-	-	-	-
CRA	☐	☐	☐	☐
LOVESTV	☐	☐	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐	☐	☐
EVOTV	☐	☐	☐	☐
NCA	-	-	-	-
DIGITAL TV	-	-	-	-
POLSAT	-	-	-	-
EPT HYBRID	-	-	-	-
DVD FEATURES				
CD COMPATIBLE PLAYBACK	-	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-	-
DVD+R	-	-	-	-
DVD+RW	-	-	-	-

CD-AUDIO	-	-	-	-
KODAK PICTURE CD	-	-	-	-
DVD RAM	-	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-	-
PLAYBACK ZOOM	-	-	-	-
PARENTAL SETTINGS	-	-	-	-
REGION	-	-	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-	-	-
SCREEN SAVER	-	-	-	-
TRANSPARENCY LEVELS	-	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-	-
DVD MENU LANGUAGES	-	-	-	-
COMMUNICATION				
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■	■
eARC (W/ HDMI 2.1)	■	■	■	■
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	■	■	■	■
VRR (Variable Refresh Rate)	■	■	■	■
QMS (Quick Media Switching)	-	-	-	-
OPERATION				
ROCKER SWITCH	-	-	-	-
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)				
WALL HANGING KIT	□	□	□	□
CERTIFICATES				
WEEE COMPLIANT	■	■	■	■
ROHS COMPLIANT	■	■	■	■

MB196	48"	55"	65"
	MB196	MB196	MB196
MAIN FEATURES			
FULL HD	-	-	-
ULTRA HD	■	■	■
100HZ (FLICKER FREE)	■	■	■
LED DIRECT BACK LIGHT (DLED)	-	-	-
LED EDGE BACK LIGHT (ELED)	-	-	-
LED DIRECT BACK LIGHT (DLED) CURVED TYPE	-	-	-
OLED	■	■	■
MPEG4	■	■	■
HEVC (H.265)	■	■	■
ISDB-TB	-	-	-
TV-DVD PLAYER COMBI	-	-	-
3DTV	-	-	-
3DTV TYPE	-	-	-
2D - 3D CONVERSION	-	-	-
MEDIA PLAYER	■	■	■
PVR READY (USB RECORD)	-	-	-
HDMI (1.1/1.2/1.3/1.4/2.0/2.1)	2.1	2.1	2.1
SCREEN FORMAT			
VISIBLE SCREEN SIZE	122	140	164
SCREEN FORMAT	16:09	16:9	16:9
RECEPTION & TUNING SYSTEMS			
TUNER VHF/UHF/CABLE	■	■	■
APS / ATS (AUTO SEARCH)	■	■	■
PROGRAM STORAGE CAPACITY (ANALOG)	-	-	-
PAL SECAM B/G D/K I/I' (TRI STANDART)	-	-	-
NTSC	-	-	-
DUAL TUNER	-	-	-
UNICABLE	□	□	□
DISEQC	□	□	□
SOUND			
GER(D) + NICAM STEREO	■	■	■
EQUALIZER (5 BAND)	5 band	5 band	5 band
BASS / TREBLE	-	-	-
DOLBY DIGITAL PLUS (DD+) (E-AC3)	-	-	-
DDCO	-	-	-
MS10 (DOLBY)	-	-	-
MS11 (DOLBY)	-	-	-
MS12 (DOLBY)	■	■	■
DOLBY AUDIO PROCESSING (DAP)	■	■	■
DOLBY ATMOS	■	■	■
DOLBY AC4	■	■	■
DTS TRUSURROUND	-	-	-
DTS 2.0+ DIGITAL OUT	-	-	-
DTS HD	-	-	-
DTS VIRTUAL:X	-	-	-
DTS:X	-	-	-
SURROUND SOUND	-	-	-
AUDIO OUTPUT POWER (RMS)	2x10W	2x10W	2x12W
SUBWOOFER AUDIO OUTPUT MAX POWER (RMS)	2x12W	2x12W	2x12W
PLAY-FI	-	-	-
CONNECTORS			
RF: TV/CATV 75 OHMS COAXIAL	■	■	■
SCART (EUROCONNECTOR)	-	-	-
SVHS VIA SCART	-	-	-
RGB VIA SCART2	-	-	-
COMPOSITE VIDEO/AUDIO IN	-	-	-

COMPOSITE VIDEO OUT	-	-	-
AUDIO LINE OUT	-	-	-
AUDIO LINE OUT VIA HEADPHONE	-	-	-
S-VHS IN (S-VIDEO 4-PIN DIN)	-	-	-
YPBPR (COMPONENT) IN	-	-	-
YPBPR IN VIA VGA	-	-	-
VGA (PC IN: D-SUB15)	-	-	-
PC AUDIO IN	-	-	-
HDMI 1 (Side)	■	■	■
HDMI 2 (ARC) (Side)	■	■	■
HDMI 3 (Side)	■	■	■
HDMI 4 (Back)	-	-	-
HDCP (1.2/ 2.0 / 2.2)	1.4/2.2	1.4/2.2	1.4/2.2
DIGITAL AUDIO OUTPUT (COAXIAL)	-	-	-
DIGITAL AUDIO OUTPUT (OPTIC)	■	■	■
HEADPHONE OUT (MAIN VOLUME CONTROL)	■	■	■
HEADPHONE OUT (HEADPHONE VOL.CONTROL SUPPORT DUAL CHANNELS)	-	-	-
SUBWOOFER LINE OUT (PASSIVE)	-	-	-
INTERNAL SUBWOOFER	□	□	□
USB1 (2.0) (Side)	■	■	■
USB2 (2.0) (Side)	■	■	■
USB3 (2.0)	-	-	-
USB4 (2.0)	-	-	-
LAN-ETHERNET (IEEE 802.3) RJ45 (FOR RETURN CHANNEL-UK MARKET)	■	■	■
SMART PORT-INTERACTIVE READY HOTEL TV APP.RJ12	-	-	-
RS232 (IN/OUT)	-	-	-
DIGITAL SW UPDATE	USB / OTA	USB / OTA	USB / OTA
PIP / PAP / PAT			
TV PICTURE IN PC (PC PIP)	-	-	-
BASIC PIP-PAP (1 TUNER PIP)	-	-	-
PICTURE IN PICTURE (2 DIGITAL TUNER PIP)	-	-	-
PICTURE AND PICTURE (PAP)	-	-	-
PICTURE AND TELETEXT (PAT)	-	-	-
PICTURE			
ZOOM MODES (ASPECT RATIO)	■	■	■
COMB FILTER (2D / 3D)	3D	3D	3D
CTI/LTI	■	■	■
DIGITAL NOISE REDUCTION	■	■	■
PSEUDO(SOFT) PIXELLENCE	-	-	-
DYNAMIC CONTRAST	■	■	■
PROGRESSIVE SCAN	■	■	■
ME/MC (MOTION ESTIMATION – MOTION COMPENSATION)	■	■	■
PICTURE WIZARD	-	-	-
HDR (HDR10, HLG)	■	■	■
DOLBY VISION HDR	■	■	■
HDR10+	■	■	■
BLUE STRETCH	■	■	■
MICRO DIMMING	■	■	■
DE-CONTOUR	■	■	■
GAMUT MAPPING	■	■	■
SDR TO HDR (Max Vivid menu item)	-	-	-
SUPER RESOLUTION	■	■	■
FILM MAKER MODE	■	■	■
DOLBY VISION IQ	-	-	-
AI	-	-	-
TEXT			
FAST TEXT	-	-	-
NUMBER OF TELETEXT PAGES	-	-	-

CLOSED CAPTION	-	-	-
CONNECTIVITY FEATURES			
HBBTV (2.0.2)	2.0.4	2.0.4	2.0.4
FREEVIEW PLAY	Freely	Freely	Freely
WIFI (VIA USB DONGLE)	-	-	-
HTML5 SUPPORT (BY YOUTUBE LB4 2014)	■	■	■
4K SUPPORT (BY YOUTUBE VP9 2015)	■	■	■
DLNA 1.5	-	-	-
MHL VIA HDMI (MOBILE HD LINK)	-	-	-
BLUETOOTH	■	■	■
HOTEL TV	-	-	-
DIGITAL SIGNAGE	-	-	-
PORTAL SUPPORT	-	-	-
WIFI (INTERNAL)	■	■	■
OPEN INTERNET	■	■	■
BBC IPLAYER, NEWS, SPORTS, CRB - G31	■	■	■
NETFLIX	■	■	■
NETFLIX 4K	■	■	■
AMAZON PRIME VIDEO	■	■	■
AMAZON ALEXA READY (WORKS WITH ALEXA)	-	-	-
AMAZON ALEXA WITH FAR-FIELD MICROPHONE	-	-	-
AMAZON DASH (DASH REPLENISHMENT SYSTEM)	-	-	-
SKY NOW TV	-	-	-
DISNEY+	■	■	■
MIRACAST	-	-	-
GOOGLECAST	-	-	-
INTEL WI-DI	-	-	-
WAKE UP ON LAN (WOLAN / WOWLAN)	■	■	■
CAMERA (MODULAR ACCESORY)	-	-	-
WiFi 6	-	-	-
GOOGLE ASSISTANT WITH FAR-FIELD MICROPHONE	-	-	-
ADDITIONAL FEATURES			
NTSC PLAYBACK	-	-	-
SLEEP TIMER	■	■	■
HOTEL MODE (PASSIVE)	-	-	-
CHILD LOCK	■	■	■
NO IDENT TIMER	-	-	-
TOUCH KEY PAD	-	-	-
ONBOARD TACT SWITCH	-	-	-
USB CLONING	-	-	-
TOUCH SENSE	-	-	-
MAGIC BUTTONS (3 WAY SWITCH)	-	-	-
AIR MOUSE	-	-	-
FEATURE OSD	-	-	-
ANIMATED FEATURE OSD	-	-	-
E-IB	-	-	-
STR (SUSPEND TO RAM = INSTANT ON)	■	■	■
JOYSTICK (EXTERNAL TK)	-	-	-
ON / OFF (EXTERNAL TK)	■	■	■
DIGITAL (DVB)			
PROGRAM STORAGE CAPACITY (DIGITAL T/T2/C)	1000	1000	1000
PROGRAM STORAGE CAPACITY (DIGITAL S/S2)	10000	10000	10000
MENU LANGUAGES	Deutsch,English,Français, Espanol,Italiano,Polski	Deutsch,English,Français, Espanol,Italiano,Polski	Deutsch,English,Français, Espanol,Italiano,Polski
DIGITAL TELETXT MHEG/MHP (ONLY FOR UK ID TV)	-	-	-
EPG (ELECTRONIC PROGRAM GUIDE)	■	■	■
EPG NOW AND NEXT	-	-	-
EPG TIMELINE SCHEDULE	■	■	■
COMMON INTERFACE (PCMCIA SLOT FOR PAY CHANNELS)	■	■	■

SMART CARD	-	-	-
EMBEDDED SYSTEMS (CONAX, IRDETO ..ETC)	-	-	-
LCN INSTALLATION (CHECK FOR COUNTRY)	■	■	■
APPROVALS			
FREEVIEW HD	-	-	-
CABLE READY HD	☐	☐	☐
BOXER HD	☐	☐	☐
COMHEM	-	-	-
ANTENNA HD READY	☐	☐	☐
CANAL READY	-	-	-
CI+	■	■	■
FREESAT HD	-	-	-
RIKS TV	☐	☐	☐
ZIGGO	☐	☐	☐
UPC	☐	☐	☐
D-SMART READY	-	-	-
DIGITURK READY	-	-	-
ORF	☐	☐	☐
FRANSAT & FRANSAT CONNECT	☐	☐	☐
M7	☐	☐	☐
TELENET	☐	☐	☐
TDT HIBRIDA	☐	☐	☐
FREEVIEW PLUS	-	-	-
HD+	☐	☐	☐
R2	-	-	-
LA TIVU	-	-	-
LA TIVU 4K	☐	☐	☐
MINDIG	☐	☐	☐
SAORVIEW	☐	☐	☐
SKY DEUTSCHLAND	☐	☐	☐
STOFA	-	-	-
YOUSEE	☐	☐	☐
TKGS	-	-	-
TIVIBU	-	-	-
UNITYMEDIA	☐	☐	☐
DTVP	☐	☐	☐
VOO	☐	☐	☐
LEVIRA	-	-	-
CRA	☐	☐	☐
LOVESTV	☐	☐	☐
SIMPLITV & SIMPLITV SAT	☐	☐	☐
EVOTV	☐	☐	☐
NCA	-	-	-
DIGITAL TV	-	-	-
POLSAT	-	-	-
EPT HYBRID	-	-	-
DVD FEATURES			
CD COMPATIBLE PLAYBACK	-	-	-
DVD COMPATIBLE PLAYBACK	-	-	-
CD-R COMPATIBLE PLAYBACK	-	-	-
CD-RW COMPATIBLE PLAYBACK	-	-	-
DVD-R COMPATIBLE PLAYBACK	-	-	-
DVD-RW COMPATIBLE PLAYBACK	-	-	-
MP3 COMPATIBLE PLAYBACK	-	-	-
DIVX COMPATIBLE PLAYBACK (DIVX FORMATS)	-	-	-
SACD COMPATIBLE PLAYBACK	-	-	-
S-VHS COMPATIBLE PLAYBACK	-	-	-
DVD+R	-	-	-
DVD+RW	-	-	-

CD-AUDIO	-	-	-
KODAK PICTURE CD	-	-	-
DVD RAM	-	-	-
STIL/SLOW/SEARCH PLAYBACK	-	-	-
J-PEG IMAGE COMPATIBLE PLAYBACK	-	-	-
MULTIPLE LANGUAGE OPTIONS	-	-	-
MULTIPLE CAMERA ANGLES	-	-	-
PLAYBACK ZOOM	-	-	-
PARENTAL SETTINGS	-	-	-
REGION	-	-	-
DIGITAL AUDIO OUTPUT(COAX) DTS COMPATIBLE	-	-	-
DIGITAL AUDIO OUTPUT(OPTIC) SPDIF DTS COMPATIBLE	-	-	-
SCREEN SAVER	-	-	-
TRANSPARENCY LEVELS	-	-	-
RETURN TO FACTORY SETTINGS	-	-	-
SOFTWARE UPDATE WITH BOOT DISC	-	-	-
DVD MENU LANGUAGES	-	-	-
COMMUNICATION			
CEC (CONNECTED EQUIPMENT FEATURES VIA HDMI)	■	■	■
eARC (W/ HDMI 2.1)	■	■	■
ALLM (AUTO LOW LATENCY MODE W/ HDMI 2.1 / 1.4)	■	■	■
VRR (Variable Refresh Rate)	■	■	■
QMS (Quick Media Switching)	-	-	-
OPERATION			
ROCKER SWITCH	-	-	-
POWER SUPPLY	220-240V AC	220-240V AC	220-240V AC
STAND-BY POWER	<0.5W	<0.5W	<0.5W
AC/DC TV (MOBIL TV)	-	-	-
SUPPLIED EXTRAS (RELATED TO CABINET AND CONCEPT)			
WALL HANGING KIT	□	□	□
CERTIFICATES			
WEEE COMPLIANT	■	■	■
ROHS COMPLIANT	■	■	■

Notes

[illegible]

Notes

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings present.

Notes

[illegible]

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