

# INTERACTIVE FLAT PANEL DISPLAYS

## 2019 - 2020



**VESTEL**  
[www.vestelvisualsolutions.com](http://www.vestelvisualsolutions.com)







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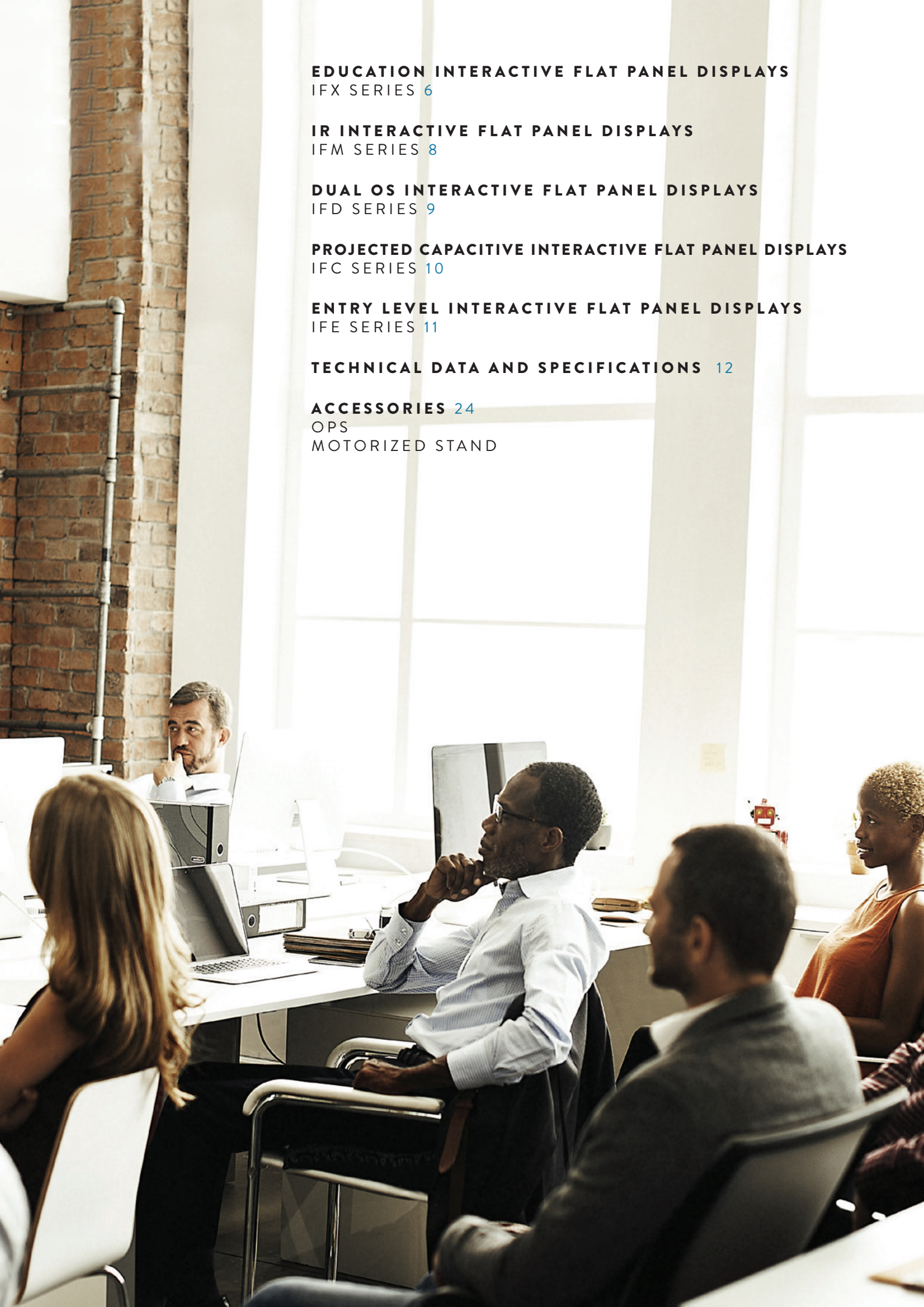
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OPS

MOTORIZED STAND





## COMPANY PROFILE

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

As one of the leading enterprises in Turkey, Vestel is a major player in consumer electronics, mobile technologies, household appliances, professional displays and Led lighting with renowned products, including television sets, educational, hospitality and digital signage solutions, digital set-top boxes, tablet PCs, smart phones, refrigerators, washing machines, cooking appliances,

dishwashers, air conditioners, and water heaters.

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

Vestel offers a wide range of visual solution products for retail, corporate, hospitality, betting, transportation and education sectors. Vestel visual solutions are designed to fit various environmental

requirements with a long lifetime and low power consumption. The unique designs also help reducing operational and maintenance costs with increased return over investment.

Manufacturing at the highest quality standards requires discipline as well as knowledge and experience.

All Vestel products are tested in-house in the company's certified quality





**1.100.000 m<sup>2</sup>**  
Closed Production Area



**35 Million**  
Device Production  
Capacity



**16.000**  
Employees



**\$ 4 Billion**  
Turnover



**18 Million**  
TV Production  
Capacity



Export Leader of Turkey with  
**\$ 2,5 Billion**

labs to ensure electronic and mechanical sustainability.

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

R&D facilities located in Manisa, İstanbul, United Kingdom, and China employ the highest caliber engineers

to develop hardware and software solutions that provide clients with world-class quality products.

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

Vestel Trade, the company responsible for the marketing and sales of Vestel products overseas, exports 73% percent

of its production under leading Japanese and European brands to 155 countries.

Distributing its products to seven continents, Vestel takes its place as a world-class company.





## **GLOBAL OPERATIONS**

### **Manufacturing & Assembly Plants**

**TV, Set-top Boxes**

**Manisa, Turkey**

**Professional Displays, Tablet PC, Smart Phone, LED lighting**

**Manisa, Turkey**

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

**Manisa, Turkey**





## **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**

## **R&D Centers**

**Manisa, Turkey**  
**Istanbul, Turkey**  
**Bristol, United Kingdom**  
**Shanghai, China**



# Education IFPDs

## IFX Series

65"

Resolution: 3840x2160 (UHD)

Brightness: 350 cd/m<sup>2</sup>

Touch Points: 10 Points Multi Touch

Touch Technology: IR Touch

Interface: HDMI 2.0 / VGA / USB /

RS232 / RJ45 / RJ12 for sensors / IR / HP

/ Audio / Speaker



**IFX is specially designed for education needs such as front facing powerful speakers, pen locations, front input and outputs for quick access with external sources and front control buttons to minimize unnecessary processes.**



### Smart IFPD

Voice command using the embedded microphone adds convenience to classroom activities. The proximity sensor activates the IFPD when a person walks in the room, and after touching the power the product will switch on instantly.



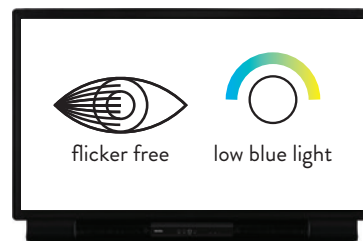
### Fast and Easy to Reach

Easily connect computers or other devices to the front facing HDMI, Touch and USB inputs. Front firing speakers ensure clearly projected sound within the classroom environment.



### Dual OS

The IFX gives you the ultimate flexibility by offering Dual OS, with built in Android, and a windows based OPS device.



### Eye-Care panel

For long time use IFX series has a special picture mode named "Eye-Care". This picture mode decreases the blue light and also it has no flicker at max brightness.





App Store



Eshare



Whiteboard

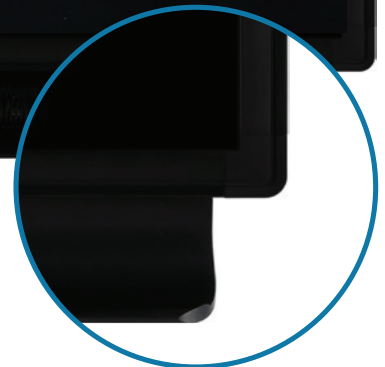
Narrow bezel and  
modern design



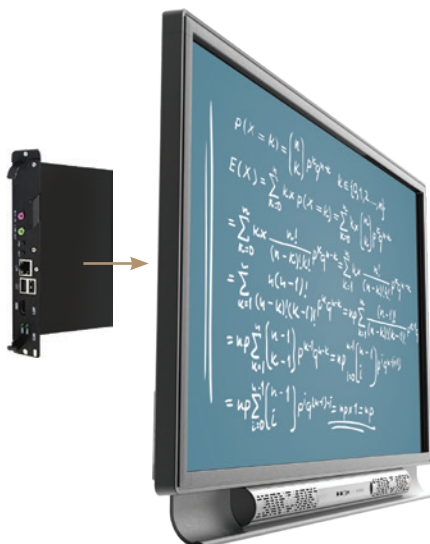
4 mm toughened  
safety glass



USB USB USB Type B HDMI-In Proximity Sensor  
Microphone optional Control Buttons



Comes with **two parking areas**  
**for pens** on each side of the  
smart front kit



### Powerful Computing Options

#### Microsoft® ecosystem

OPS Module options for schools using Windows operating system

#### Celeron & Intel i5 OPS Options

Fast and powerful computing systems

#### Intel® Vpro™ Technology

Built for business with performance, manageability, and security. Compatible with Intel Unite wireless collaboration



UNITE™



Windows 10



Microsoft

# IR IFPDs IFM Series

**55" / 65" / 75" / 86"**

Resolution: 3840x2160 (UHD)

Brightness: 400 cd/m<sup>2</sup> (65": 350 cd/m<sup>2</sup>)

Touch Points: 10 Points Multi Touch

Touch Technology: IR Touch

Interface: HDMI 2.0 / VGA / USB /

RS232 / RJ45 / RJ12 for sensors / IR /

HP / Audio / Speaker

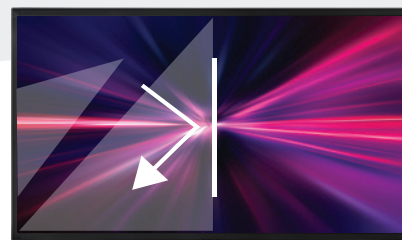


**Designed with Touch screen technology, the Vestel Interactive Flat Panel Display is a dynamic and engaging solution for both education and business environments. Encouraging interactive communication, its technology facilitates learning as well as information sharing.**



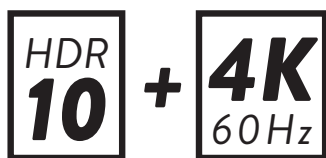
## Collaborate, Annotate with Octopus

Is there a feature of Octopus that allows easier note taking on external tablets or laptops? I am not sure of the relevance to the touch screen with Octopus built in?



## Anti Glare Tempered Glass

Prevents light reflection and provides smooth touch performance with antiglare technology. Robust design with toughened glass material to avoid any damage to the screen



## HDR10 & 4K HDMI @60Hz

Displays supporting HDR10 allows HDR based content to be shown, giving a brighter and more dynamic picture. This is further enhanced due to the support of 4K 60Hz, allowing ultra sharp, smooth Video content to be presented.



## Simultaneous Smooth writing Multi - Touch

10 point touch support detects multiple touch points, enhancing the possibility of collaborative work. The screens also provide a precise and user friendly writing experience with its smooth surface



# Dual OS IFPDs IFD Series

**55" / 65" / 75" / 86"**

Resolution: 3840x2160 (UHD)

Brightness: 400 cd/m<sup>2</sup> (65": 350 cd/m<sup>2</sup>)

Touch Points: 10 Points Multi Touch

Touch Technology: IR Touch

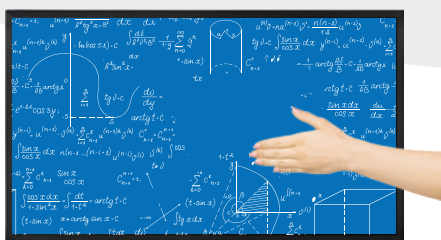
Interface: HDMI 2.0 / VGA / USB /

RS232 / RJ45 / RJ12 for sensors / IR /

HP / Audio / Speaker

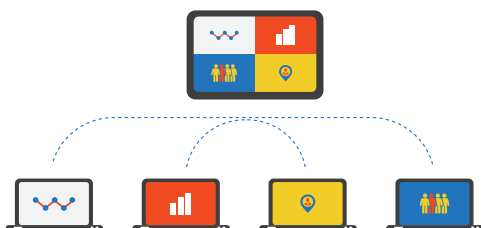


**Designed with Touch screen technology, IFD series comes with on-board Android 7.1 OS. You can either use Android or upgrade your touch display with Windows 10 OPS.**



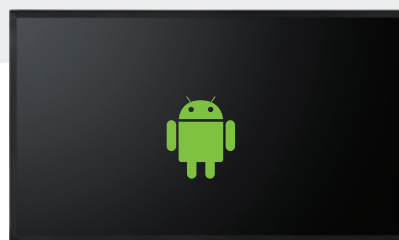
## Palm Erase

Automatic palm erasing function allows teachers and students to simplify the white board experience with smooth writing and erasing.



## Wireless Presentation

Teachers, students or any user can share their screen efficiently and conveniently in the classroom or meeting room via EShare application. This application can connect any operating system and show up to 4 different screen at the same time.



## Ease of use with Android

Android gives teachers one touch access for lessons and collaboration tools including whiteboard, web browser, apps library, and native wireless screen sharing.



## Different Sizes for various classrooms

Available in a variety of large screen sizes, the IFD range gives customers the options to choose exactly what they need for their room size.

# PCAP IFC Series

65"

Resolution: 3840x2160 (UHD)

Brightness: 400 cd/m<sup>2</sup>

Touch Points: 10 Points Multi Touch

Touch Technology: Projected Capacitive Touch

Interface: HDMI 2.0 / VGA / USB /

RS232 / RJ45 / RJ12 for sensors / IR / HP

/ Audio / Speaker



**Designed with Capacitive touch screen technology, the Vestel PCAP IFPD is a dynamic and engaging solution for both education and business environments.**



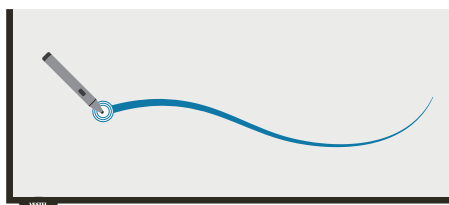
## Powered by Windows 10

The IFC series is able to enhance your meetings with an Windows OPS incorporating Vpro technology. Dedicated software such as OneNote for business and Skype for business. Collaboration can be easily completed with up to 4 devices at the same time using Intel Unite.



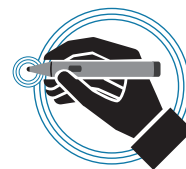
## Active Pen

The IFC series capacitive touch technology enhances the user experience by allowing the use of active stylus pens, even if you are resting your palm on the screen.



## Pressure sensitive touch screen

IFC Series differentiates itself from its rivals with its revolutionary touch technology, pressure sensitive touch. This advanced technology recognizes the level of pressure and acts accordingly such as writing thin or bold with Active Pen. No need to go through all menu items over and over again. With this feature, it is just a click away.



## Palm Rejection

Vestel's PCAP touch screen solution gives you a perfect experience like you are writing on a sheet of paper in real life. This sensitive technology allows you to use Vestel Interactive Flat Panel Display in your meeting rooms to take notes and also share them simultaneously.



# Entry Level IFPDs

## IFE Series

65"

Resolution: 3840x2160 (UHD)

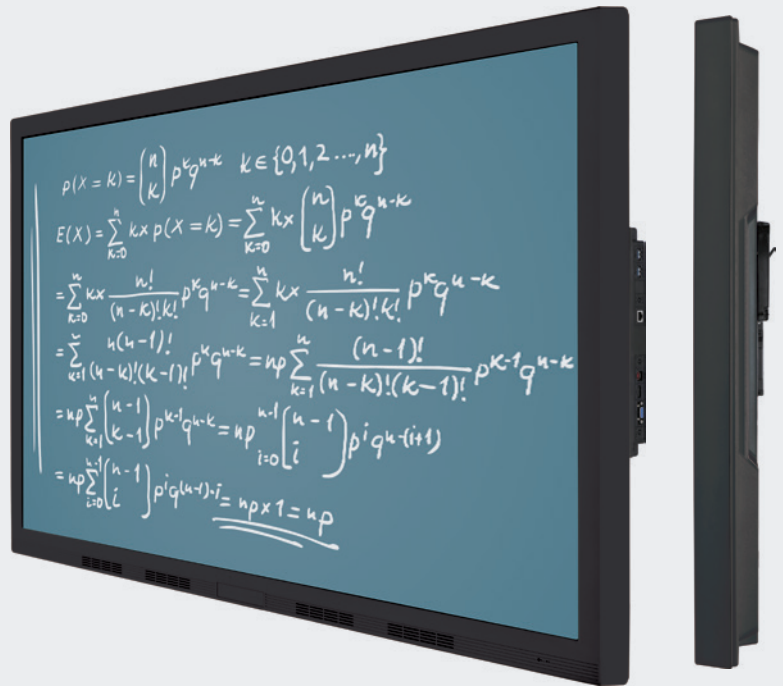
Brightness: 400 cd/m<sup>2</sup>

Touch Points: 10 Points Multi Touch

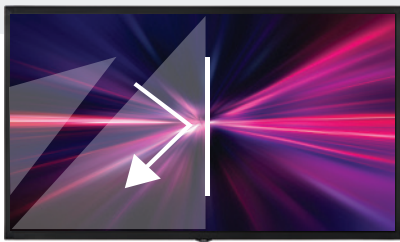
Touch Technology: IR Touch

Interface: HDMI 2.0 / VGA / USB /

RS232 / RJ45 / IR / HP / Speaker



**Cost effective IFE series make classrooms affordable to switch interactive flat panel rather than traditional whiteboards. Lower initial investment and maintenance costs reduces the return of investment for schools. With a plastic front and backcover, IFE offers a robust design.**



### Anti-Glare Glass

Our screens come with a special screen to prevent light reflection and providing smooth touch experience with antiglare technology.

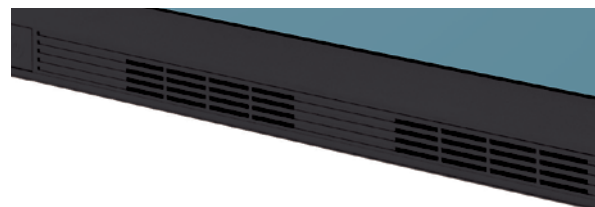
### Ultra HD 4K Display

You will be able to experience excellent 4K content via USB, HDMI, DVI and display ports, and our 4K supporting pluggable computers (OPS). Vestel IFPD is best for any application that aim perfect visual experience for its users.



### OPS Support

All our products in this series have compliance with OPS (Open Pluggable Standard). OPS will empower your screens with enhanced processing power and ability to choose Windows or Android as your operating system to fit your specific application.



### Convenient & Easy Accessibility

Sound directed to classroom : Front facing speakers offer better sound transmission to classroom and this increases the level of audiovisual performance during classes. Minimize unnecessary processes by front buttons : Switch sources, Increase and Decrease Volume, Power On/off can be done with ease of front buttons.

# Education IFPDs

## IFX Series

1. HDMI OUT
2. HDMI IN 1
3. HP
4. IR IN
5. HDMI IN 2 or Micro SD\*
6. HDMI IN 3
7. HDMI IN 4
8. Optical SPDIF
9. Android LAN\*
10. RJ12-Sensors
11. RJ12
12. AUDIO IN L/R
13. DSUB9-RS232
14. VGA
15. RJ45
16. USB 2
17. USB 1 or USB for Android\*



### KEY SERIES FEATURES

- |                         |                         |                     |                         |
|-------------------------|-------------------------|---------------------|-------------------------|
| • 4K HDMI @60Hz         | • HDMI Switching        | • Signal Failover   | • Brightness Scheduling |
| • Built-in Connectivity | • HDMI CEC              | • Input Search      | • USB Cloning           |
| • Built-in WiFi         | • HDMI Auto-Switch      | • Device ID         | • USB Operations        |
| • Built-in Bluetooth    | • SoC CMS               | • Display Lifetime  | • USB Information       |
| • Sensor Compatibility  | • HTML5 API Support     | • Serial Number     | • USB Safe Eject        |
| • OPS Support           | • Display Control       | • Software Upgrade  | • Volume Limit          |
| • 10-Point Multi Touch  | • Usb Auto-Play         | • Start Url         | • Startup Volume        |
| • Button Lock           | • USB Secure Cover      | • OPS Status        | • Headphone Volume      |
| • RCU Lock              | • Carrying Handles      | • OPS Power Control |                         |
| • Menu Lock             | • Detachable Logo       | • Power-up Mode     |                         |
| • Boot-up Picture       | • Detachable Power Cord | • Power on Delay    |                         |
| • Daisychain            | • OSD Rotation          | • Auto-Launch       |                         |
| • HDMI Wakeup           | • Pixel Shifting        | • Scheduler         |                         |



## IFX Series

	IFX65TH752/4	IFXD65TH752/3
Panel		
Screen Size	65"	65"
Backlight Type	Direct-Type LED	Direct-Type LED
Brightness (typical)	350 cd/m²	350 cd/m²
Native Resolution	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD
Contrast Ratio (typical)	4000:1	4000:1
Dynamic Contrast Ratio	35000:1	35000:1
Panel Life Time ( Min. )	30000 Hrs	30000 Hrs
Response Time (typical)	8 ms	8 ms
Active Area (H x V)	1428 x 804 mm	1428 x 804 mm
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Color Value	1.07 B (10-bit)	1.07 B (10-bit)
Screen Treatment	3H	3H
Haze Level	2%	2%
Refresh Rate	60 Hz	60 Hz
Front Type	Black Super Narrow Bezel	Black Super Narrow Bezel
Orientation	Horizontal	Horizontal
Operation Hours	16/7	16/7
Area of Usage	Indoor	Indoor
Mainboard		
Mainboard Model	17MB135VS	17MB135VS
Monitor Connectivity		
RGB Input	VGA(DE-15F)	VGA(DE-15F)
RGB Output	N/A	N/A
Video Input	4xHDMI2.0, 2xUSB2.0, USB2.0(Internal)	3xHDMI2.0, 2xUSB2.0, USB2.0(Internal), 1x MicroSD
Video Output	HDMI2.0	HDMI2.0
Audio Input	Line In L/R	Line In L/R
Audio Output	Headphone, Optic SPDIF	Headphone, Optic SPDIF
External Control	RS232(DE-9F), Ethernet(RJ45), Service(RJ12)	RS232(DE-9F), Ethernet(RJ45), Service(RJ12)
External Sensor	RJ12	RJ12
Touch Technology		
Type of Touch Technology	Infrared (IR) Technology	Infrared (IR) Technology
Supported Point	10 Points	10 Points
Sensitivity	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer
Connectivity	HID, TUIO, Flash	HID, TUIO, Flash
Supported OS and Applications	Windows®7, Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Androi	Windows®7, Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Androi
Orientation	Landscape Support	Landscape Support
Calibration	No need	No need
Accuracy	90% <	90% <
Reporting Rate	Up to 450 fps	Up to 450 fps
Glass Type	Anti Glared (AG), 4mm tempered	Anti Glared (AG), 4mm tempered
Frame Rate	Up to 450 fps	Up to 450 fps
Communication	USB2.0	USB2.0
Power Supply Mode	USB	USB
Supply Voltage	DC 5V +/- 5%	DC 5V +/- 5%
Average Current	< 400 mA	< 400 mA
Response Time	< 10 ms	< 10 ms
Touch Accuracy	+/-2mm (over 90% area)	+/-2mm (over 90% area)
Object Sizes for Touch	5 mm	5 mm
Touch Durability	Unlimited	Unlimited
HID Compatibility	Yes USB	Yes USB
Mechanical		
Product Dimensions (WxDxH)	1513 x 139 x 975 mm	1513 x 139 x 975 mm
Package Dimensions (WxDxH)	1765 x 265 x 1187 mm	1765 x 265 x 1187 mm
Product Weight	48 Kg	48 Kg
Package Weight	62 Kg	62 Kg
Vesa Mounting	400 x 400 mm	400 x 400 mm
Bezel Width	B:129  T:41   L/R:41 mm	B:129  T:41   L/R:41 mm
Environmental Conditions		
Operating Temperature	+40°C / 0°C	+40°C / 0°C
Operating Humidity	90%	90%
Power		
Power Supply	110 VAC - 240 VAC	110 VAC - 240 VAC
Power Consumption		
Typical	TBD	TBD
Deep Standby	≤ 0.5W	≤ 0.5W
Features		
Main Features	Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Hotplug, Auto-switch on Failover, Panel Lock	
Mechanical Features	IR Touch, Joystick, IR Extender Support, Rocker Switch, Detachable power cable, Carrying slots, Detachable logo positioning, Internal usb cover, Cable Holder	
Optional Features	OPS Compliance	OPS Compliance
Speaker	2x12W	2x12W
Accessory		
Standard	QSG, IB, Power Cord, Remote Control, RC Battery, Mounting Kit, Extension Brackets	
Certification		
Safety	YES	YES
EMC	YES	YES
CE	YES	YES
Reability Approval	YES	YES

# IR IFPDs IFM Series

1. HDMI OUT
2. HDMI IN 1
3. HP
4. IR IN
5. HDMI IN 2
6. HDMI IN 3
7. HDMI IN 4
8. Optical SPDIF
9. RJ12-Sensors
10. RJ12
11. AUDIO IN L/R
12. DSUB9-RS232
13. VGA
14. RJ45
15. USB 2
16. USB 1



## KEY SERIES FEATURES

- |                         |                         |                     |                         |
|-------------------------|-------------------------|---------------------|-------------------------|
| • 4K HDMI @60Hz         | • HDMI Switching        | • Signal Failover   | • Brightness Scheduling |
| • Built-in Connectivity | • HDMI CEC              | • Input Search      | • USB Cloning           |
| • Built-in WiFi         | • HDMI Auto-Switch      | • Device ID         | • USB Operations        |
| • Built-in Bluetooth    | • SoC CMS               | • Display Lifetime  | • USB Information       |
| • Sensor Compatibility  | • HTML5 API Support     | • Serial Number     | • USB Safe Eject        |
| • OPS Support           | • Display Control       | • Software Upgrade  | • Volume Limit          |
| • 10-Point Multi Touch  | • Usb Auto-Play         | • Start Url         | • Startup Volume        |
| • Button Lock           | • USB Secure Cover      | • OPS Status        | • Headphone Volume      |
| • RCU Lock              | • Carrying Handles      | • OPS Power Control |                         |
| • Menu Lock             | • Detachable Logo       | • Power-up Mode     |                         |
| • Boot-up Picture       | • Detachable Power Cord | • Power on Delay    |                         |
| • Daisychain            | • OSD Rotation          | • Auto-Launch       |                         |
| • HDMI Wakeup           | • Pixel Shifting        | • Scheduler         |                         |



# IFM Series

	IFM55TH652/4	IFM65TH752/4	IFM75TH653/4	IFM86TH650B/4
<b>Panel</b>				
Screen Size	55"	65"	75"	86"
Backlight Type	Direct-Type LED	Direct-Type LED	Direct-Type LED	Edge-Type LED
Brightness (typical)	400 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>
Native Resolution	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD
Contrast Ratio (typical)	1300:1	1200:1	1200:1	1200:1
Dynamic Contrast Ratio	40000:1	35000:1	40000:1	50000:1
Panel Life Time ( Min. )	30000 Hr	30000 Hrs	30000 Hrs	30000 Hrs
Response Time (typical)	6 ms	9 ms	8 ms	8 ms
Active Area (H x V)	1210 x 681 mm	1428 x 804 mm	1650 x 928 mm	1907 x 1076 mm
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Color Value	16.7 M (8-bit)	1.07 B (10-bit)	1.07 B (10-bit)	1.07 B (10-bit)
Screen Treatment	2H	2H	2H	2H
Haze Level	3%	3%	3%	3%
Refresh Rate	60 Hz	60 Hz	60 Hz	120 Hz
Front Type	Black Super Narrow Bezel	Black Super Narrow Bezel	Touch Bezel Type	Black Touch Bezel Type
Orientation	Horizontal	Horizontal	Horizontal	Horizontal
Operation Hours	16/7	16/7	16/7 Panel	16/7
Area of Usage	Indoor	Indoor	Indoor	Indoor
<b>Mainboard</b>				
Mainboard Model	17MB135VS	17MB135VS	17MB135VS	17MB135VS
<b>Monitor Connectivity</b>				
RGB Input	VGA(DE-15F)	VGA(DE-15F)	VGA(DE-15F)	VGA(DE-15F)
RGB Output	N/A	N/A	N/A	N/A
Video Input	4xHDMI2.0, 2xUSB2.0, USB2.0(Internal)	4xHDMI2.0, 2xUSB2.0, USB2.0(Internal)	4xHDMI2.0, 2xUSB2.0, USB2.0(Internal)	4xHDMI2.0, 2xUSB2.0, USB2.0(Internal)
Video Output	HDMI2.0	HDMI2.0	HDMI2.0	HDMI2.0
Audio Input	Line In L/R	Line In L/R	Line In L/R	Line In L/R
Audio Output	Headphone, Optic SPDIF	Headphone, Optic SPDIF	Headphone, Optic SPDIF	Headphone, Optic SPDIF
External Control	RS232(DE-9F), Ethernet(RJ45), Service(RJ12)	RS232(DE-9F), Ethernet(RJ45), Service(RJ12)	RS232(DE-9F), Ethernet(RJ45), Service(RJ12)	RS232(DE-9F), Ethernet(RJ45), Service(RJ12)
External Sensor	RJ12	RJ12	RJ12	RJ12
<b>Touch Technology</b>				
Type of Touch Technology	Infrared (IR) Technology	Infrared (IR) Technology	Infrared (IR) Technology	Infrared (IR) Technology
Supported Point	10 Points	10 Points	10 Points	10 Points
Sensitivity	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer
Connectivity	HID, TUIO, Flash	HID, TUIO, Flash	HID, TUIO, Flash	HID, TUIO, Flash
Supported OS and Applications	Windows®7, Windows®8, Win- dows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Win- dows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Win- dows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Win- dows®10, Vista, XP, Mac® OS, Linux, Android
Orientation	Landscape support	Landscape Support	Landscape support	Landscape support
Calibration	No need	No need	No need	No need
Accuracy	%90 <	90% <	%90 <	%90 <
Reporting Rate	Up to 450 fps	Up to 450 fps	Up to 450 fps	Up to 450 fps
Glass Type	Anti Glared (AG), 4mm Tempered	Anti Glared (AG), 4mm tempered	Anti Glared (AG), 4mm Tempered	Anti Glared (AG), 4mm Tempered
Frame Rate	up to 450 fps	Up to 450 fps	up to 450 fps	up to 450 fps
Communication	USB 2.0	USB2.0	USB 2.0	USB 2.0
Power Supply Mode	USB	USB	USB	USB
Supply Voltage	DC 5V +/- 5%	DC 5V +/- 5%	DC 5V +/- 5%	DC 5V +/- 5%
Average Current	<400mA	< 400 mA	<400mA	<400mA
Response Time	<10ms	< 10 ms	<10ms	<10ms
Touch Accuracy	+/-2mm (over 90% area)	+/-2mm (over 90% area)	+/-2mm (over 90% area)	+/-2mm (over 90% area)
Object Sizes for Touch	5mm	5 mm	5mm	5mm
Touch Durability	Unlimited	Unlimited	Unlimited	Unlimited
HID Compatibility	Yes USB	Yes USB	Yes USB	Yes USB
<b>Mechanical</b>				
Product Dimensions (WxDxH)	1280 x 123 x 751 mm	1507 x 118 x 882 mm	1731 x 119 x 1008 mm	1975 x 103 x 1146 mm
Package Dimensions (WxDxH)	1480 x 265 x 930 mm	1756 x 265 x 1100 mm	1990 x 265 x 1227 mm	2163 x 318 x 1405 mm
Product Weight	29.45 kg	41.6 mm	58.3 kg	90.5 kg
Package Weight	38.15 kg	53.6 mm	72.3 kg	110.6 kg
Vesa Mounting	400 x 200 mm	400 x 400 mm	600 x 400 mm	600 x 400 mm
Bezel Width	B:34   T:34   L/R:34 mm	B:38   T:38   L/R:38 mm	B:38   T:38   L/R:38 mm	B:38   T:38   L/R:38 mm
<b>Environmental Conditions</b>				
Operating Temperature	+40°C / 0°C	+40°C / 0°C	+40°C / 0°C	+40°C / 0°C
Operating Humidity	90%	90%	90%	90%
<b>Power</b>				
Power Supply	110 VAC - 240 VAC	110 VAC - 240 VAC	110 VAC - 240 VAC	110 VAC - 240 VAC
<b>Power Consumption</b>				
Typical	83 W	149W	220 W	280W
Deep Standby	≤0.5W	≤ 0.5W	≤0.5W	≤0.5W
<b>Features</b>				
Main Features	Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Hotplug, Auto-switch on Failover, Panel Lock, OSD Rotation, NoSignalPowerOff, Screen Saver, Pixel shift, Scheduler, Videowall support, remote control via LAN, Real Time Clock			
Mechanical Features	IR Touch, Joystick, IR Extender Support, Rocker Switch, Detachable power cable, Carrying slots, Detachable logo positioning, Internal usb cover, Cable Holder			
Optional Features	OPS Compliance	OPS Compliance	OPS Compliance	OPS Compliance
Speaker	2 x 8 W	2x8W	2 x 12 W	2 x 12 W
<b>Accessory</b>				
Standard	QSG, IB, Power Cord, Remote Control, RC Battery, Mounting Kit, Extension Brackets, IR Extender Cable	QSG, IB, Power Cord, Remote Control, RC Battery, Mounting Kit, Extension Brackets, IR Extender Cable	QSG, IB, Power Cord, Remote Control Unit, RC Battery, Mounting Kit, Extension Brackets, IR Extender Cable	QSG, IB, Power Cord, Remote Control Unit, RC Battery, Mounting Kit, Extension Brackets, IR Extender Cable
<b>Certification</b>				
Safety	YES	YES	YES	YES
EMC	YES	YES	YES	YES
CE	YES	YES	YES	YES
Reability Approval	YES	YES	YES	YES

# DualOS IFPDs

## IFD Series

1. HDMI OUT
2. HDMI IN 1
3. HP
4. IR IN
5. Micro SD
6. HDMI IN 3
7. HDMI IN 4
8. Optical SPDIF
9. Android LAN
10. RJ12-Sensors
11. RJ12
12. AUDIO IN L/R
13. DSUB9-RS232
14. VGA
15. RJ45
16. USB 2.0
17. USB 2.0 for Android



### KEY SERIES FEATURES

- |                         |                         |                     |                         |
|-------------------------|-------------------------|---------------------|-------------------------|
| • 4K HDMI @60Hz         | • HDMI Switching        | • Signal Failover   | • Brightness Scheduling |
| • Built-in Connectivity | • HDMI CEC              | • Input Search      | • USB Cloning           |
| • Built-in WiFi         | • HDMI Auto-Switch      | • Device ID         | • USB Operations        |
| • Built-in Bluetooth    | • SoC CMS               | • Display Lifetime  | • USB Information       |
| • Sensor Compatibility  | • HTML5 API Support     | • Serial Number     | • USB Safe Eject        |
| • OPS Support           | • Display Control       | • Software Upgrade  | • Volume Limit          |
| • 10-Point Multi Touch  | • Usb Auto-Play         | • Start Url         | • Startup Volume        |
| • Button Lock           | • USB Secure Cover      | • OPS Status        | • Headphone Volume      |
| • RCU Lock              | • Carrying Handles      | • OPS Power Control |                         |
| • Menu Lock             | • Detachable Logo       | • Power-up Mode     |                         |
| • Boot-up Picture       | • Detachable Power Cord | • Power on Delay    |                         |
| • Daisychain            | • OSD Rotation          | • Auto-Launch       |                         |
| • HDMI Wakeup           | • Pixel Shifting        | • Scheduler         |                         |

## IFD Series

	IFD55TH652/3	IFD65TH752/3	IFD75TH653/3	IFD86TH650B/3
Panel				
Screen Size	55"	65"	75"	86"
Backlight Type	Direct-Type LED	Direct-Type LED	Direct-Type LED	Edge-Type LED
Brightness (typical)	400 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>
Native Resolution	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD
Contrast Ratio (typical)	1300:1	1200:1	1200:1	1200:1
Dynamic Constrast Ratio	40000:1	35000:1	40000:1	50000:1
Panel Life Time ( Min. )	30000 Hr	30,000 hrs	30,000 Hrs	30000 Hrs
Response Time (typical)	6 ms	8 ms	8 ms	8 ms
Active Area (H x V)	1210 x 681 mm	1428 x 804 mm	1650 x 928 mm	1907 x 1076 mm
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Color Value	16.7 M (8-bit)	1.07 B (10-bit)	1.07 B (10-bit)	1.07 B (10-bit)
Screen Treatment	2H	2H	2H	2H
Haze Level	3%	3%	3%	3%
Refresh Rate	60 Hz	60 Hz	60 Hz	120 Hz
Front Type	Black Super Narrow Bezel	Touch Bezel	Touch Bezel	Black Touch Bezel Type
Orientation	Horizontal	Horizontal	Horizontal	Horizontal
Operation Hours	16/7	16/7 Panel	16/7 Panel	16/7
Area of Usage	Indoor	Indoor	Indoor	Indoor
Mainboard				
Mainboard Model	17MB135VS	MB135VS	17MB135VS	17MB135VS
Monitor Connectivity				
RGB Input	VGA(DE-15F)	VGA(DE-15F)	VGA(DE-15F)	VGA(DE-15F)
RGB Output	N/A	N/A	N/A	N/A
Video Input	3xHDMI2.0, 2xUSB2.0, USB2.0(In-ternal), 1xMicroSD	3xHDMI2.0, 2xUSB2.0, USB2.0(In-ternal), 1xMicroSD	3xHDMI2.0, 2xUSB2.0, USB2.0(In-ternal), 1xMicroSD	3xHDMI2.0, 2xUSB2.0, USB2.0(In-ternal), 1xMicroSD
Video Output	HDMI2.0	HDMI2.0	HDMI2.0	HDMI2.0
Audio Input	Line In L/R	Line In L/R	Line In L/R	Line In L/R
Audio Output	Headphone, Optic SPDIF	Headphone, Optic SPDIF	Headphone, Optic SPDIF	Headphone, Optic SPDIF
External Control	RS232(DE-9F), 2*Ethernet(RJ45), Service(RJ12)	RS232(DE-9F), 2*Ethernet(RJ45), Service(RJ12)	RS232(DE-9F), 2*Ethernet(RJ45), Service(RJ12)	RS232(DE-9F), 2*Ethernet(RJ45), Service(RJ12)
External Sensor	RJ12	RJ12	RJ12	RJ12
Touch Technology				
Type of Touch Technology	Infrared (IR) Technology	Infrared (IR) Technology	Infrared (IR) Technology	Infrared (IR) Technology
Supported Point	10 Points	10 Points	10 Points	10 Points
Sensitivity	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer
Connectivity	HID, TUIO, Flash	HID, TUIO, Flash	HID, TUIO, Flash	HID, TUIO, Flash
Supported OS and Applications	Windows®7, Windows®8, Win-dows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Win-dows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Win-dows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Win-dows®10, Vista, XP, Mac® OS, Linux, Android
Orientation	Landscape support	Landscape support	Landscape support	Landscape support
Calibration	No need	No need	No need	No need
Accuracy	%90 <	%90 <	90% <	%90 <
Reporting Rate	Up to 450 fps	Up to 450 fps	up to 450 fps	Up to 450 fps
Glass Type	Anti Glared (AG), 4mm Tempered	Anti Glared (AG), 4mm Tempered	Anti Glared (AG), Tempered 4mm	Anti Glared (AG), 4mm Tempered
Frame Rate	up to 450 fps	up to 450 fps	up to 450 fps	up to 450 fps
Communication	USB 2.0	USB 2.0	USB2.0	USB 2.0
Power Supply Mode	USB	USB	USB	USB
Supply Voltage	DC 5V +/- 5%	DC 5V +/- 5%	DC 5V +/- 5%	DC 5V +/- 5%
Average Current	<400mA	<400mA	< 400 mA	<400mA
Response Time	<10ms	<10ms	< 10 ms	<10ms
Touch Accuracy	+/-2mm (over 90% area)	+/-2mm (over 90% area)	+/-2mm (over 90% area)	+/-2mm (over 90% area)
Object Sizes for Touch	5mm	5mm	5 mm	5mm
Touch Durability	Unlimited	Unlimited	Unlimited	Unlimited
HID Compatibility	Yes USB	Yes USB	YES USB	Yes USB
Mechanical				
Product Dimensions (WxDxH)	1280 x 123 x 751 mm	1507 x 118 x 882 mm	1731 x 119 x 1008 mm	1975 x 103 x 1146 mm
Package Dimensions (WxDxH)	1480 x 265 x 930 mm	1756 x 265 x 1100 mm	1948 x 310 x 1248 mm	2163 x 318 x 1405 mm
Product Weight	29.45 kg	38.6 kg	58.3 kg	90.5 kg
Package Weight	38.15 kg	48 kg	72.4 kg	110.6 kg
Vesa Mounting	400 x 200 mm	400 x 400 mm	600 x 400 mm - M6	600 x 400 mm
Bezel Width	B:34   T:34   L/R:34 mm	B:38  T:38   L/R:38 mm	B:38   T:38   L/R:38 mm	B:38  T:38   L/R:38 mm
Environmental Conditions				
Operating Temperature	+40°C / 0°C	+40°C / 0°C	0-40°C	+40°C / 0°C
Operating Humidity	90%	90%	10-90%	90%
Power				
Power Supply	110 VAC - 240 VAC	110 VAC - 240 VAC	110 VAC - 240 VAC - 50/60 Hz	110 VAC - 240 VAC
Power Consumption				
Typical	83 W	195 W		280W
Deep Standby	≤0.5W	≤ 0.5W	≤ 0.5W	≤0.5W
Features				
Main Features	Android 7.1 OS, Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Hotplug, Auto-switch on Failover, Panel Lock, OSD Rotation, NoSignalPowerOff, Screen Saver, Pixel shift, Scheduler, Videowall support, remote control via LAN, Real Time Clock			
Mechanical Features	Joystick, IR Extender Support, Rocker Switch, Detachable power cable, Carrying slots, Detachable logo positioning, Cable Holder			
Optional Features	OPS Compliance	OPS Compliance	OPS Compliance	OPS Compliance
Speaker	2 x 8 W	2 x 12 W	2 x 12 W	2 x 12 W
Accessory				
Standard	QSG, IB, Power Cord, Remote Control, RC Battery, Mounting Kit, Extension Brackets, IR Extender Cable			
Certification				
Safety	YES	YES	YES	YES
EMC	YES	YES	YES	YES
CE	YES	YES	YES	YES
Reability Approval	YES	YES	YES	YES



# PCAP IFC Series

1. HDMI OUT
2. HDMI IN 1
3. HP
4. IR IN
5. HDMI IN 2
6. HDMI IN 3
7. HDMI IN 4
8. Optical SPDIF
9. RJ12-Sensors
10. RJ12
11. AUDIO IN L/R
12. DSUB9-RS232
13. VGA
14. RJ45
15. USB 2
16. USB 1



## KEY SERIES FEATURES

- |                         |                         |                     |                         |
|-------------------------|-------------------------|---------------------|-------------------------|
| • 4K HDMI @60Hz         | • HDMI Switching        | • Signal Failover   | • Brightness Scheduling |
| • Built-in Connectivity | • HDMI CEC              | • Input Search      | • USB Cloning           |
| • Built-in WiFi         | • HDMI Auto-Switch      | • Device ID         | • USB Operations        |
| • Built-in Bluetooth    | • SoC CMS               | • Display Lifetime  | • USB Information       |
| • Sensor Compatibility  | • HTML5 API Support     | • Serial Number     | • USB Safe Eject        |
| • OPS Support           | • Display Control       | • Software Upgrade  | • Volume Limit          |
| • 10-Point Multi Touch  | • Usb Auto-Play         | • Start Url         | • Startup Volume        |
| • Button Lock           | • USB Secure Cover      | • OPS Status        | • Headphone Volume      |
| • RCU Lock              | • Carrying Handles      | • OPS Power Control |                         |
| • Menu Lock             | • Detachable Logo       | • Power-up Mode     |                         |
| • Boot-up Picture       | • Detachable Power Cord | • Power on Delay    |                         |
| • Daisychain            | • OSD Rotation          | • Auto-Launch       |                         |
| • HDMI Wakeup           | • Pixel Shifting        | • Scheduler         |                         |

## IFC Series

IFC65TH652/4	
<b>Panel</b>	
Screen Size	65"
Backlight Type	Direct-Type LED
Brightness (typical)	400 cd/m <sup>2</sup>
Native Resolution	3840 x 2160 (16:9) - UHD
Contrast Ratio (typical)	1200:1
Dynamic Contrast Ratio	40000:1
Panel Life Time ( Min. )	30000 Hrs
Response Time (typical)	8 ms
Active Area (H x V)	1429 mm (H) x 804 mm (V)
Pixel Pitch (H x V)	0.372 x 0.372 mm
PPI (pixel per inch)	68
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Color Value	1.07 B (10-bit)
Screen Treatment	2H
Haze Level	3%
Refresh Rate	60 Hz
Front Type	Black PCAP Touch Bezel
Orientation	Horizontal
Operation Hours	16/7 Panel
Area of Usage	Indoor
<b>Mainboard</b>	
Mainboard Model	17MB135VS
<b>Monitor Connectivity</b>	
RGB Input	VGA(DE-15F)
RGB Output	N/A
Video Input	4xHDMI2.0, 2xUSB2.0, USB2.0(Internal)
Video Output	HDMI2.0
Audio Input	Line In L/R
Audio Output	Headphone, Optic SPDIF
External Control	RS232(DE-9F), Ethernet(RJ45), Service(RJ12)
External Sensor	RJ12
<b>Touch Technology</b>	
Type of Touch Technology	P-cap Technology
Supported Point	10 Points with finger touch
Sensitivity	Finger (Multi-touch), Active Pen (Single Touch)
Connectivity	HID
Supported OS and Applications	Windows®7, Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Android
Orientation	Landscape support
Calibration	No need
Accuracy	%90 <
Reporting Rate	>100Hz
Glass Type	Anti Glared (AG), 4mm Tempered
Communication	USB 1.1 Full Speed
Power Supply Mode	USB
Supply Voltage	DC 5V
Average Current	<400mA
Response Time	<25ms
Touch Accuracy	+/-2mm (over 90% area)
Object Sizes for Touch	8mm for finger
Touch Durability	5 years
HID Compatibility	Yes USB
<b>Mechanical</b>	
Product Dimensions (WxDxH)	1510 x 105 x 885 mm
Package Dimensions (WxDxH)	1765 x 265 x 1100 mm
Product Weight	44.2 kg
Package Weight	57 kg
Vesa Mounting	400 x 400 mm
<b>Environmental Conditions</b>	
Operating Temperature	+40°C / 0°C
Operating Humidity	90%
<b>Power</b>	
Power Supply	110 VAC - 240 VAC
<b>Power Consumption</b>	
Typical	118 W
Deep Standby	≤0.5W
<b>Features</b>	
Main Features	Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Hotplug, Auto-switch on Failover, Panel Lock
Mechanical Features	Projective Capacitive Touch (PCAP), Joystick, IR Extender Support, Rocker Switch, Detachable power cable, Carrying slots, Detachable logo positioning, Internal usb cover, Cable Holder
Optional Features	OPS Compliance
Speaker	2 x 8 W
<b>Accessory</b>	
Standard	QSG, IB, Power Cord, Remote Control, RC Battery, Mounting Kit, Extension Brackets, IR Extender Cable
<b>Certification</b>	
Safety	YES
EMC	YES
CE	YES
Reability Approval	YES

# Entry Level IFPDs

## IFE Series

1. OPS USB 3.0
2. OPS USB 3.0
3. OPS Headphone
4. OPS Ethernet
5. Audio OUT
6. USB Type B for Touch
7. HDMI 2.0
8. VGA
9. Audio IN



### KEY SERIES FEATURES

- 4K HDMI @60Hz
- Input Search
- Built-in Connectivity
- Device ID
- Built-in WiFi
- Display Lifetime
- Built-in Bluetooth
- Serial Number
- Sensor Compatibility
- Software Upgrade
- OPS Support
- OPS Status
- 10-Point Multi Touch
- OPS Power Control
- Button Lock
- Power-up Mode
- RCU Lock
- Power on Delay
- Menu Lock
- Auto-Launch
- Boot-up Picture
- Volume Limit
- HDMI Wakeup
- Startup Volume
- HDMI CEC
- Headphone Volume

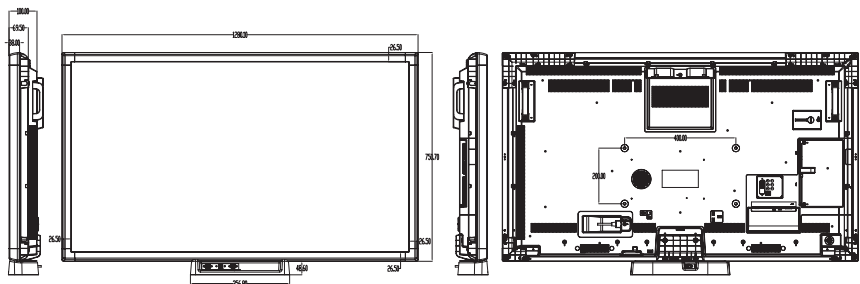


## IFE Series

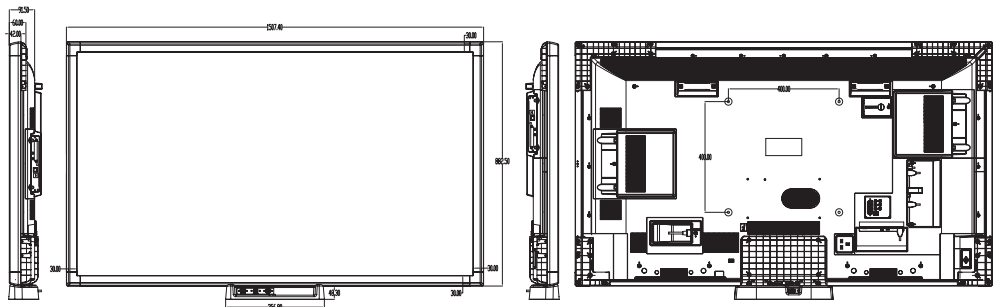
IFE65TI764/A4	
<b>Panel</b>	
Screen Size	65"
Backlight Type	Direct-Type LED
Brightness (typical)	350 cd/m <sup>2</sup>
Native Resolution	3840 x 2160 (16:9) - UHD
Contrast Ratio (typical)	4000:1
Dynamic Contrast Ratio	35000:1
Panel Life Time ( Min. )	30000 Hrs
Response Time (typical)	8 ms
Active Area (H x V)	1429 mm (H) x 804 mm (V)
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Color Value	1.07 B (10-bit)
Screen Treatment	2H
Haze Level	3%
Refresh Rate	60 Hz
Orientation	Horizontal
Operation Hours	16/7 Panel
Area of Usage	Indoor
<b>Mainboard</b>	
Mainboard Model	17MB130VS
<b>Monitor Connectivity</b>	
RGB Input	VGA(DE-15F)
RGB Output	N/A
Video Input	1xHDMI2.0
Video Output	N/A
Audio Input	Line In Jack
Audio Output	Line Out Jack
External Control	Service(RJ12), USB Type B for Touch
External Sensor	N/A
<b>Touch Technology</b>	
Type of Touch Technology	Infrared (IR) Technology
Supported Point	10 Points
Sensitivity	Any touch with finger, gloved hand or pointer
Connectivity	HID, TUIO, Flash
Supported OS and Applications	Windows®7, Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Android
Orientation	Landscape support
Calibration	No need
Accuracy	%90 <
Reporting Rate	Up to 450 fps
Glass Type	Anti Glared (AG), 4mm Tempered
Frame Rate	up to 450 fps
Communication	USB 2.0
Power Supply Mode	USB
Supply Voltage	DC 5V +/- 5%
Average Current	<400mA
Response Time	<10ms
Touch Accuracy	+/-2mm (over 90% area)
Object Sizes for Touch	5mm
Touch Durability	Unlimited
HID Compatibility	Yes USB
<b>Mechanical</b>	
Product Dimensions (WxDxH)	1525mm (L) x 915mm (H) x 115mm (D)
Package Dimensions (WxDxH)	1756mm (L) x 1100mm (H) x 265mm (D)
Product Weight	34 Kg
Package Weight	43 Kg
Vesa Mounting	400 x 400 mm
<b>Environmental Conditions</b>	
Operating Temperature	+40°C / 0°C
Operating Humidity	90%
<b>Power</b>	
Power Supply	110 VAC - 240 VAC
<b>Power Consumption</b>	
Typical	235W
Deep Standby	≤0.5W
<b>Features</b>	
Main Features	USB-Autoplay, HDMI-Hotplug, Auto-switch on Failover, Panel Lock
Mechanical Features	Front Buttons, Rocker Switch
Optional Features	OPS Compliance
Speaker	2 x 16 W
<b>Accessory</b>	
Standard	QSG, IB, Power Cord, Remote Control, RC Battery, Mounting Kit, Extension Brackets, IR Extender Cable
<b>Certification</b>	
Safety	YES
EMC	YES
CE	YES
Reability Approval	YES

IFM Series / IFD Series

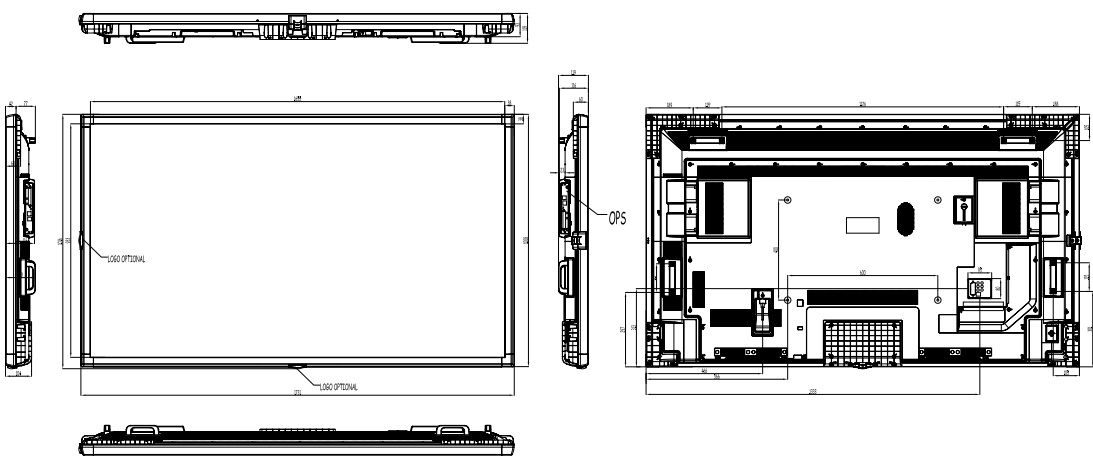
IFM55TH652/4 / IFD55TH652/3



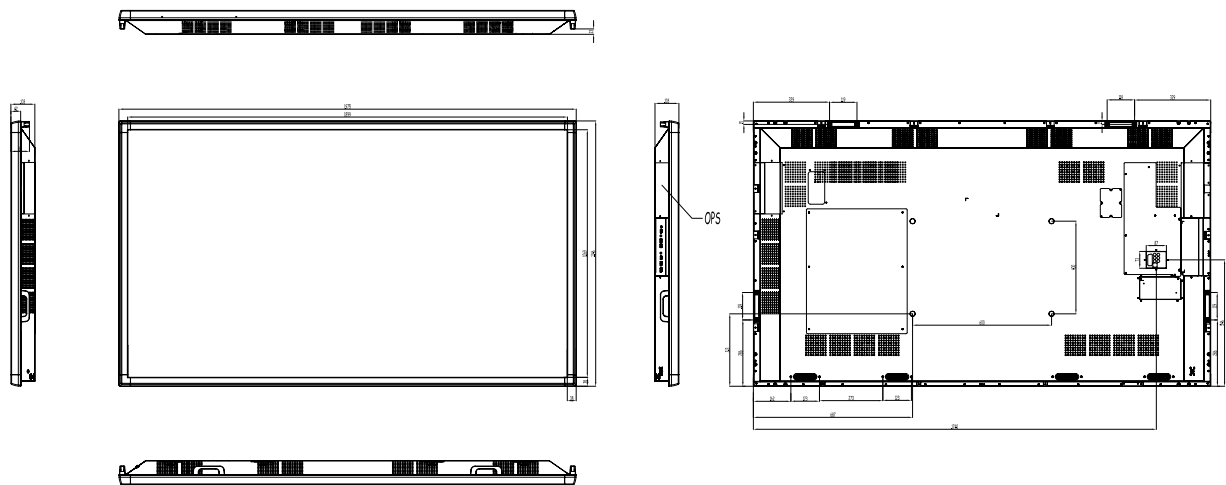
IFM65TH752/4 / IFD65TH752/3



IFM75TH653/4 / IFD75TH653/3

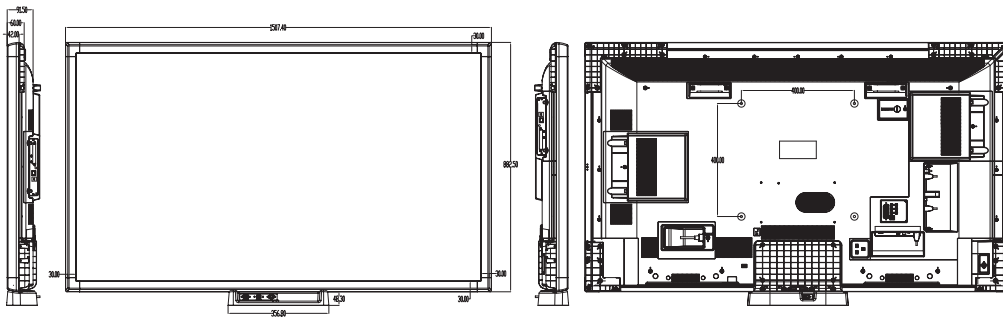


IFM86TH650B/4 / IFD86TH650B/3



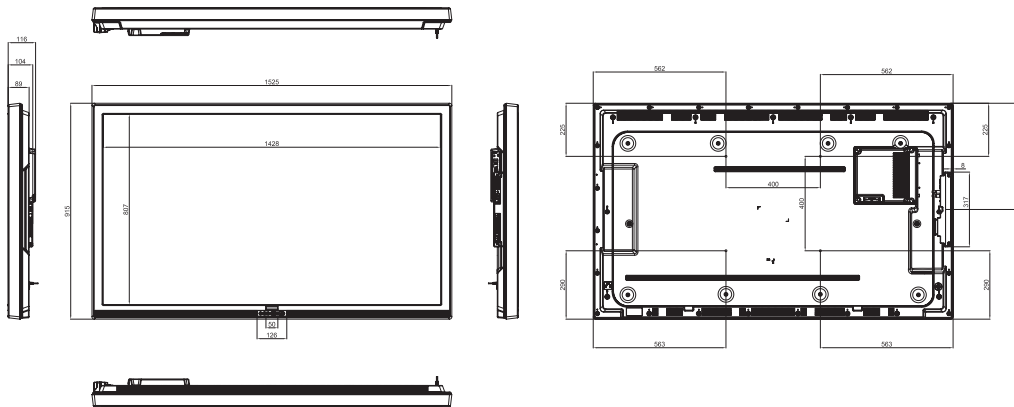
**IFC Series**

**IFC65TH652/4**



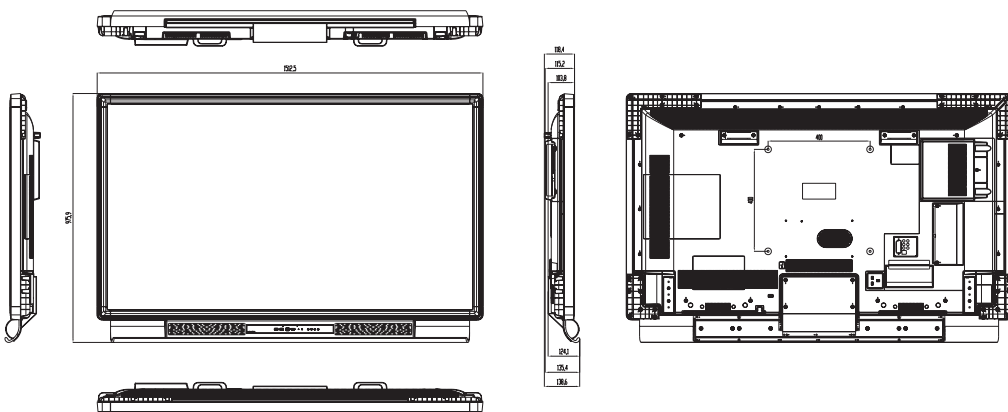
## IFE Series

**IFE65TI764/A4**



## IFX Series

**IFX65TH752/4 / IFXD65TH752/3**







### Plug-in OPS Module

Vestel's pluggable processors (OPS) are designed to give extra computational power to our displays.

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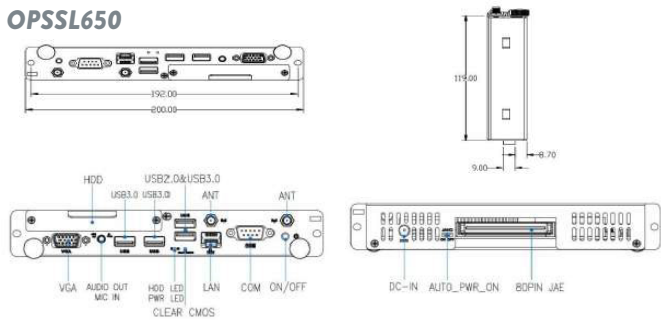
### Motorized Stand

You will be able to make use of our adjustable motorized stands together with our signage products.

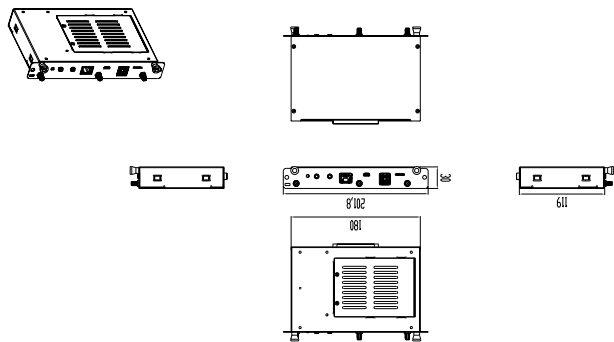
Accessories

Plug-in OPS Module

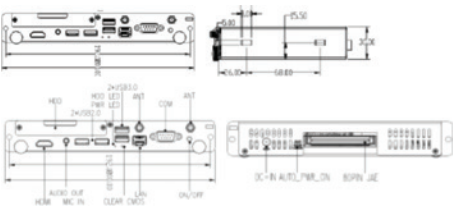
OPSSL650



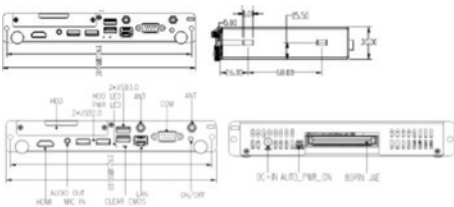
OPS150



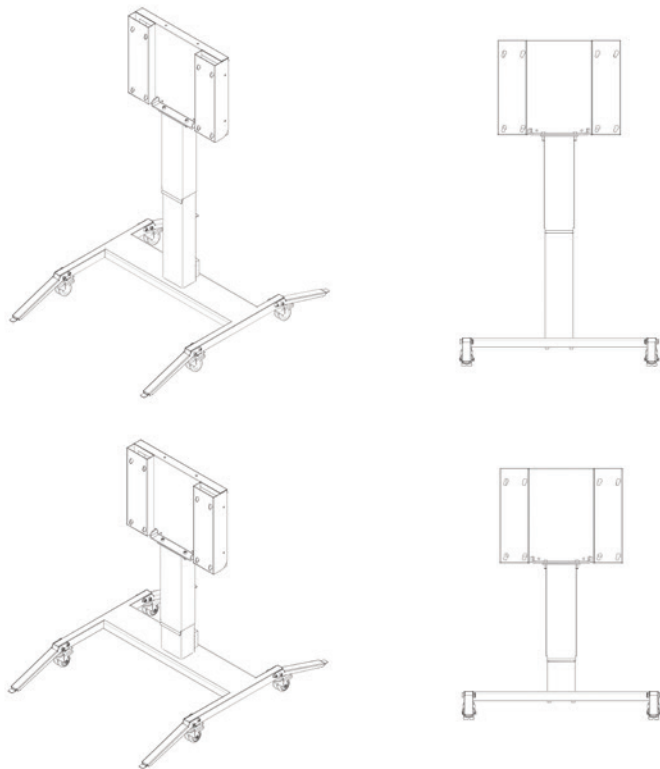
OPSKL756V



OPSKL3865



Motorized Stand



## NOTES

[illegible]



## NOTES

[illegible]

## NOTES

[illegible]

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