

Large Screen Collaboration

LG Interactive Digital Boards

86TR3D & TC3D Series





As the use of digital devices increases and digitalized working becomes more and more common, multiple people in different places are working together to solve problems and make important decisions. As these tasks become more complex and difficult, collaborative meetings have become a key to success for businesses. The LG Interactive Digital Board (IDB) Series of products have been developed as a means of maximizing the effectiveness of such meetings, aiming to reduce spending unnecessary time and costs. The use of an IDB can be extended beyond general business meeting rooms to various places such as fashion design offices, hospitals, military command centers, and architectural offices.

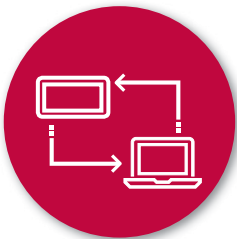
Why LG Interactive Digital Boards?

The LG Interactive Digital Board (IDB), powered by the IDB app, is the optimal solution to meet the requirements of meeting spaces. It helps facilitate a successful meeting by driving participants to freely submit their ideas on the screen using the intuitive touch and writing tools, as well as encouraging engagement thanks to easy connectivity and crisp graphics for high readability.



Experience Intuitive Touch and Writing

- The advanced touch technology enables intuitive and precise touch responses.
- The embedded writing application is an optimized tool for writing directly onto the board.



Facilitate Efficient Collaboration Without a PC

- The webOS 3.0+ smart platform makes it possible to collaborate without the need for a PC based on its high performance.
- The embedded IDB app enhances the optimized work-flow for efficient collaboration.

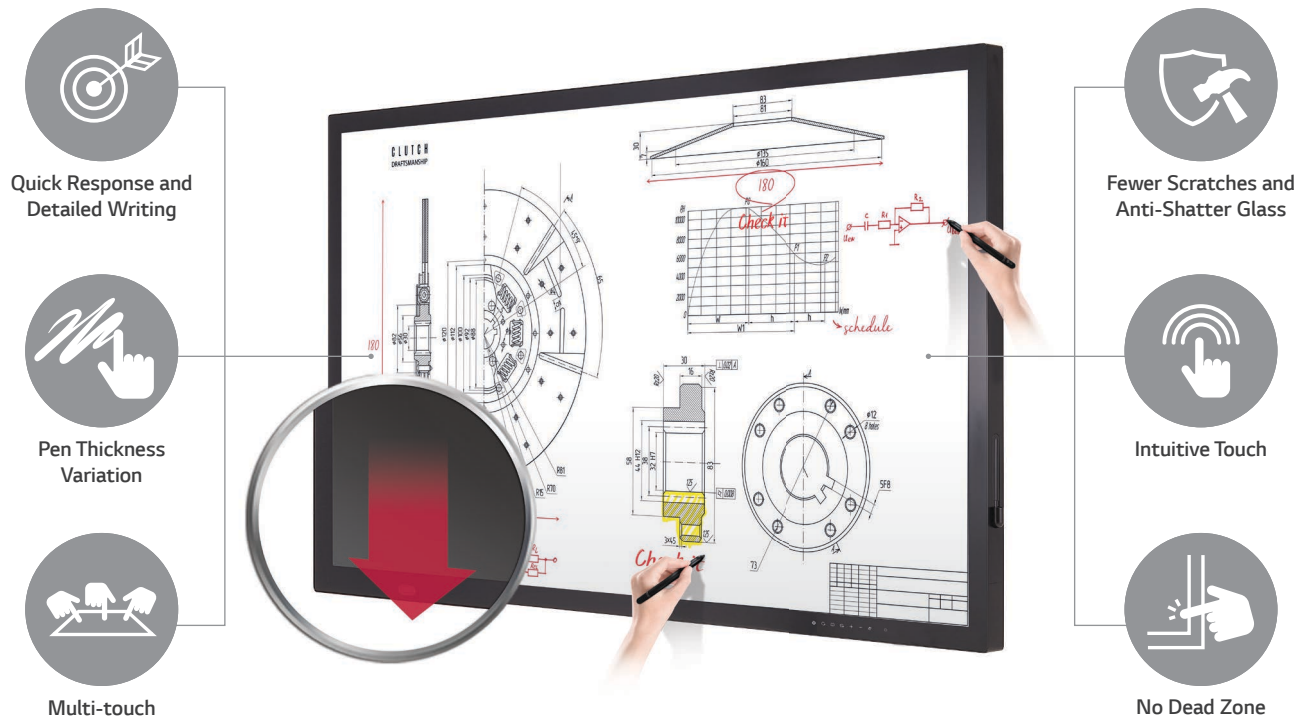


Ultra HD Picture Quality

- Ultra HD resolution presents details clearly and without distortion even in zoom mode, providing clear images.
- The LG IPS panel provides a wide viewing angle with accurate colors.

Experience Intuitive Touch and Writing

With the most advanced built-in touch technology, LG's 86TR3D & TC3D Series enables precise screen touch responses and a sleek design.



Precise Touch Performance

• Quick Response and Detailed Writing

The screen recognizes small touch points accurately and instantly shows the response to the touch point. This kind of accuracy and granularity means that users can use IDB both as a realistic handwriting tool and for detailed complex content such as drawings.

• Pen Thickness Variation

The thickness of the pen can be adapted to the user's writing speed, even when using the passive pen. Lines or characters become bolder as the writing speed increases. This makes users feel as if they are writing on paper using their usual ballpoint pen.

• Multi-touch

It allows multi-touches from 20 points (86TR3D) to 40 points (TC3D Series) so that multiple participants can simultaneously use touch features.

• Scratch-Resistant and Anti-Shatter Glass

The LG IDB has an advanced tempered screen coating to minimize scratches*. In addition, its anti-shatter glass is designed to minimize harm to the user, even in the event of an external shock.

• Intuitive Touch

Users will find the IDB easy to use because the touchscreen performance feels similar to their mobile phones or tablets.

• No Dead Zone

Unlike IR touch screens, the display accurately detects touch points at the corners and edges of the display.

* The use of an LG magnetic stylus pen is highly recommended.

Experience Intuitive Touch and Writing

With the most advanced built-in touch technology, the IDB app supports a comfortable writing experiences.

Easy Operation



• Quick Set-up

There's no need to waste time connecting and setting up various devices before the meeting. When the display power is on, the IDB app automatically shows pre-stored data and operates the writing software.



• Palm Erase

Writers can freely take a note and easily erase it with their palm as they do when using a conventional whiteboard. *86TR3D Only



• Open

The pre-stored files are easy to open on the screen with a simple touch.



• Screen Capture & Storage

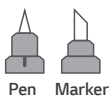
The written materials can be captured and automatically saved, which is useful when discussed content need to be stored by stages.



zoom mode

Floating Tool Bar

While using the writing function in IDB app mode, the user can place a floating toolbar anywhere on the screen by pressing and holding a touch point. Users can also drag it around using their fingertip or open and minimize it with a single tap, enabling comfortable and intuitive writing on the screen. Its special circular design helps users easily adopt and explore all features, even when trying the function for the first time.



Pen Marker



Allows users to choose between a pen or marker for different levels of thickness in drawing, as well as different colors.



Select

Allows users to adjust the size of an object or change its location by clicking on it.



Highlighter



Allows users to highlight certain information on the screen.



Undo

Allows users to undo the most recent action performed.



Eraser

Allows users to erase drawings and control the thickness of the eraser.

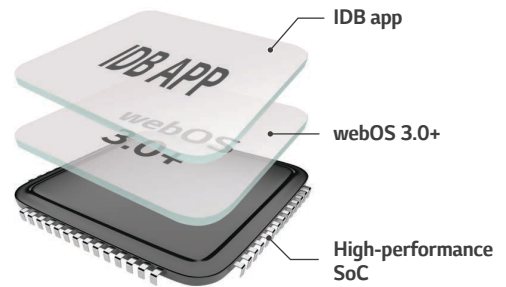
* Easy operation features will be available at the end of 2017.

Facilitate Efficient Collaboration Without a PC

The IDB app makes it possible to collaborate without the need for a PC based on the webOS 3.0+ smart platform. It enhances collaboration by having file sharing, writing, and saving capabilities.

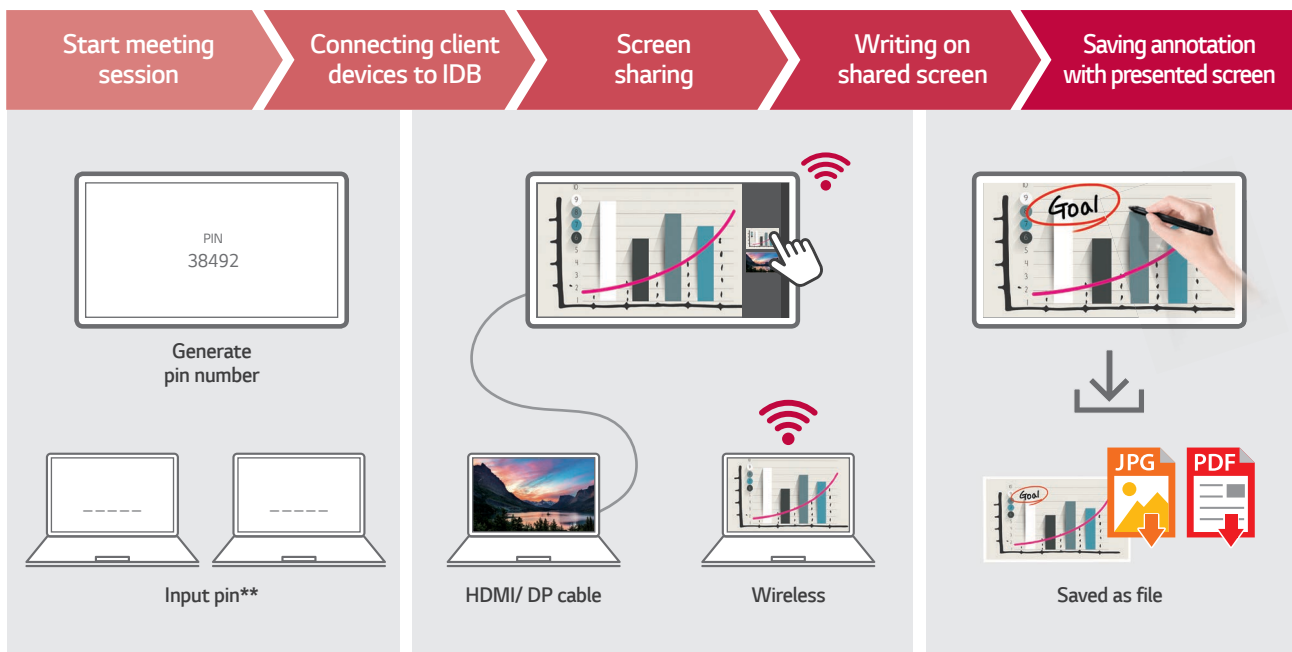
SoC and LG webOS

LG webOS 3.0+ is powered by high-performance System-on-Chip/SoC and can execute several tasks at the same time without the need for a separate media player or PC. Especially when combined with the IDB app, the LG IDB offers both interactive collaboration as well as an intuitive writing application, meaning additional licenses for IDB solution are not required.



IDB App for Efficient Collaboration

The LG IDB app provides users with a convenient and effective meeting experience beyond expectation. Additionally, a virtual meeting space can be created with the IDB, with participation access limited to users who enter a pin number generated by the IDB. Once the participants are in, the meeting session is ready to start.



Drawing Overlay on top of HDMI/DP and On-Screen Content Saving Functionality

The LG IDB enables screen sharing using HDMI or DP cables. Shared screens are shown on a list on the IDB, so that a presenter can select the desired material to be displayed in full screen mode. Also, the presenter can write notes on the shared screen and save the notes with the screen, which can reduce time spent on wrapping-up and/or meeting minutes. time spent wrapping-up or announcing meeting minutes.



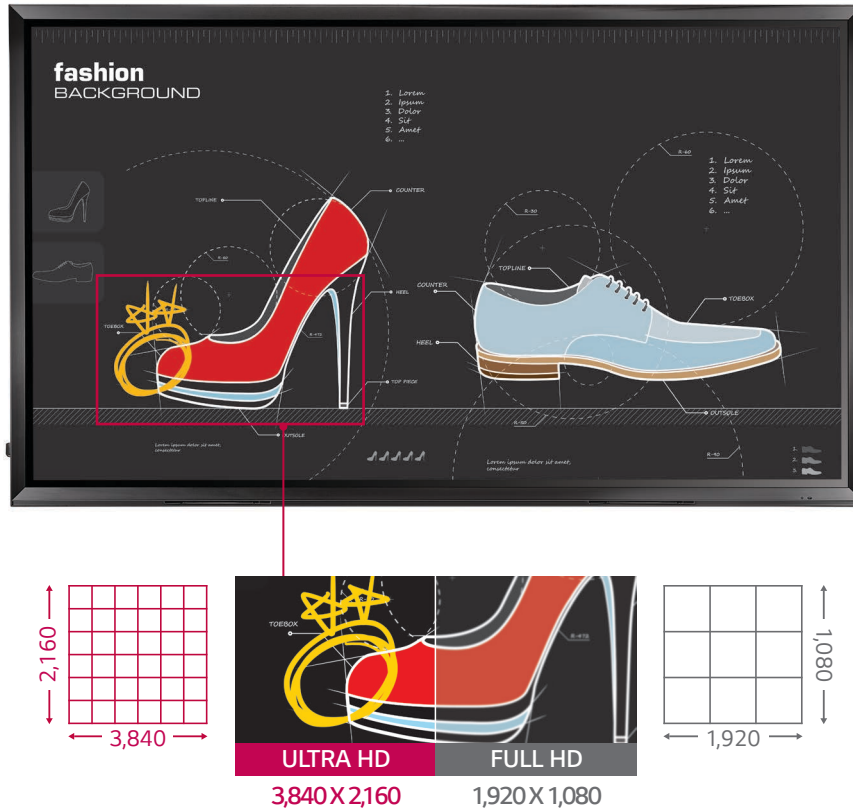
Annotate on Mirrored Screen and Save

The whole process mentioned above is also available using a wireless connection. The only difference is that screens can be shared with an IDB via wireless connection. Whether using cables or wireless connection, all mirrored screens are shown as a list on the IDB, so the presenter is able to choose from among them. LG IDB will be key to building an environment optimized for both efficient collaboration and effective meetings.

** The IDB companion (client app) installation is required. The download link will be released at the end of 2017.

Ensure the **Best Picture Quality**

The 86TR3D & TC3D Series provide high-quality imagery, regardless of content type.



LG UHD Technology

IDB users often use the zoom-in function to view complex images, such as design drawings in more detail and write on the presentation material. The UHD resolution of the 86TR3D & 75TC3D features 8.3 million pixels, 4 times more than FHD resolution allowing users to view details without distortion, even when zooming in on the display. Moreover, the outstanding resolution of UHD vividly delivers high-quality images or video content.

LG IPS Panel with Wide Viewing Angles and True Color

Thanks to IPS technology, viewers in meeting rooms can see crisp, clear content from a wide viewing angle. Moreover, every pixel in the IPS panel truly reproduces the image colors without distorting them. The outstanding color reproduction is well-suited for usage in industries such as fashion, design and architecture.

Maximize User Convenience

Auto Signal/Touch Switching

While using the IDB, it is often necessary to connect participant's laptops so that they can share their display with others. In such cases, time is often wasted during the meeting on adjusting the external input and touch USB on the display screen. LG has eliminated many elements that adversely affect user experience. The LG IDB is designed to connect signals from the side interface first, so that a display on notebooks connected to the side is immediately shown on the IDB screen and support touch functions. The original IDB display and the touch function are restored without any separate action when the notebook is disconnected from the side interface*.



NO External Input Adjustment

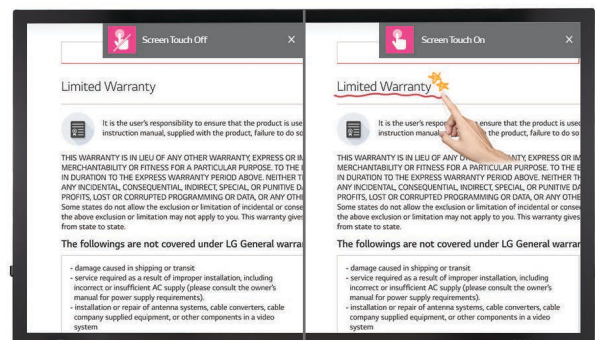
Editable Assistive Touch Menu

Traditional Interactive Digital Boards over 65" often have inconvenient menus to use, since most often the menu can only be called from the side of the screen. The Touch Menu is a subsidiary menu introduced to eliminate such inconvenience and improve user-friendliness. LG IDB users can run the desired function or change the setting from anywhere by softly pressing the screen to call up the Touch Menu**. Moreover, it is possible to edit the menu to include preferred apps.



Touch On/Off Key

During presentations, the touch function is not always required. In such cases, users can turn off the function just by tapping the "Assistive Menu" key. Users only need to tap this key again to turn the touch function back on. The key is on the left-hand side of the 86TR3D and in the lower section of the front of the TC3D Series, allowing users to easily turn the touch function on/off.



Touch Off

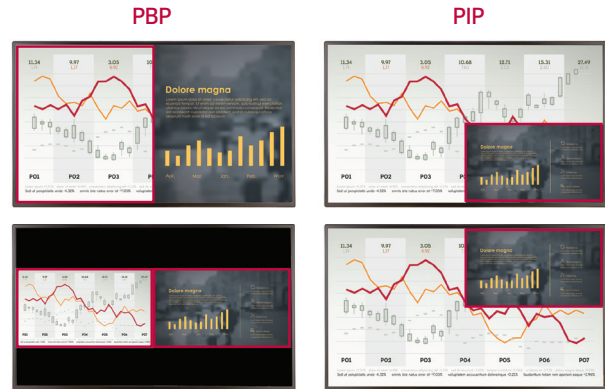
Touch On

* Pre-setting is required to perform the restore process
 ** The menu design(GUI) is subject to change without notice

Maximize User Convenience

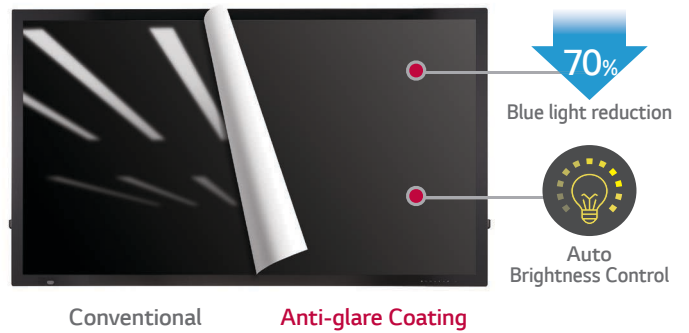
Multi-Screen with PBP/PIP

PBP (Picture-By-Picture) features multi-screen functionality in a single display with upto 2 input sources, thus maximizing the usability of the large screen. In addition, PIP (Picture-In-Picture) supports playing both main screen and a sub-screen at the same time with various layouts, so users can custom arrange their screens.



Reader Mode, Anti-Glare Coating and Auto Brightness Control

Reader Mode decreases blue light by 70%, helping to improve the comfort of those who are viewing the screen for a long time. The anti-glare coating on the screen reduces reflection for better visibility. And brightness is automatically adjusted according to ambient light of the surrounding to reduce eye strain through Auto Brightness Control.

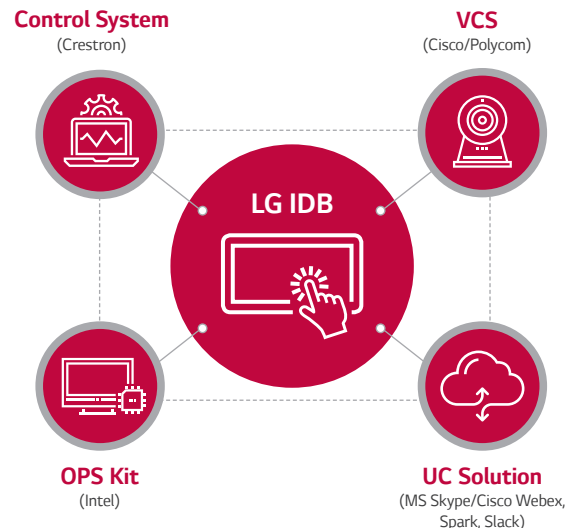


Compatibility with Partners

Compatibility is critical in meeting room environments that work with multiple devices. LG IDB is certified for compatibility with AV control systems, enabling seamless integration and automated control in meeting rooms. The LG IDB also allows video conferencing to be held reliably, as it supports connections with VCS solutions or UC (Unified Communication) solutions.

Partner Compatibility

- Control System: Crestron Connected Certified
- VCS: Cisco/Polycom
- OPS Kit: Intel
- UC Solution: Microsoft Skype/Cisco Webex, Spark, Slack



Product Information

86TR3D

Connectivity

1. HDMI
2. Touch USB
3. OPS USB 2.0
4. USB 2.0

Side Hot Key

1. Assistive Menu
2. IDB App.
3. Reader Mode
4. Key Lock
5. Volume Up
6. Volume Down
7. Input
8. Power

Built-in Speaker

Magnetic Stylus Pen & Holder

75/65/55TC3D

Connectivity

1. HDMI
2. Touch USB
3. OPS USB 2.0
4. USB 2.0

Built-in Speaker

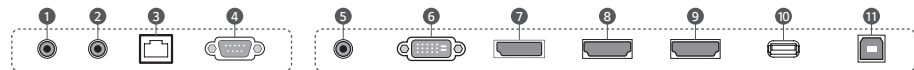
Magnetic Stylus Pen & Holder

Setup buttons

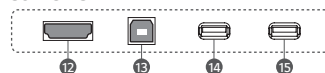
Connectivity

- | | |
|--------------|------------------|
| 1 RS232C out | 9 HDMI 2 |
| 2 RS232C in | 10 USB 3.0 |
| 3 LAN | 11 Touch USB |
| 4 RGB in | 12 HDMI 3 |
| 5 Audio in | 13 Touch USB |
| 6 DVI-D in | 14 OPS USB (2.0) |
| 7 DP in | 15 USB 2.0 |
| 8 HDMI 1 | 16 USB 3.0 |

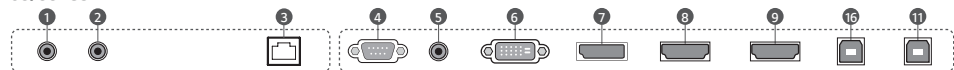
86TR3D REAR



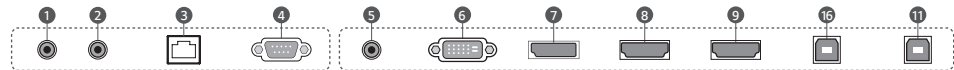
86TR3D SIDE



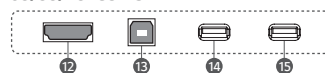
65/55TC3D REAR



75TC3D REAR



65/55/75TC3D SIDE



Specification





		86TR3D	75TC3D	65TC3D	55TC3D	
PANEL	Screen Size	86"	75"	65"	55"	
	Panel Technology	IPS	IPS	IPS	IPS	
	Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9	
	Native Resolution	3,840 x 2,160 (UHD)	3,840 x 2,160 (UHD)	1,920 x 1,080 (FHD)	1,920 x 1,080 (FHD)	
	Brightness*	410 cd/m ²	500 cd/m ²	450 cd/m ²	450 cd/m ²	
	Viewing Angle (H x V)	178 x 178	178 x 178	178 x 178	178 x 178	
CONNECTIVITY	Input	HDMI (3), DP, DVI-D, RGB, Audio in, USB 3.0, USB 2.0, OPS USB 2.0				
	Output	Touch USB 2.0 (2)				
	External Control	RS232C in/out, RJ45 in				
PHYSICAL SPECIFICATION	Bezel Width	50.7 mm (T/L/R), 62.2 mm (B)	41.6 mm(T/L/R/B)	36.1mm(T/L/R), 42.2mm(B)	32.7mm (T), 33.4(L/R), 38.8 mm(B)	
	Monitor Dimension (W x H x D)	2,026.9 x 1,180.3 x 75.6 mm (w/o Handle)	1,732.8 x 1011.1 x 69.7 mm (w/o Handle)	1,530.8 x 883.8 x 71.7 mm (w/o Handle)	1,276.4 x 751.9 x 63.9 mm	
	Weight (Head)	92.7 kg	74.5 kg	51kg	29.1 kg	
	Carton Dimensions (W x H x D)	2,190 x 1,470 x 371 mm	1,870 x 1,264 x 285 mm (with pallet)	1,650 x 1,035 x 228 mm	1,369 x 890 x 210 mm	
	Packed Weight	121.2 kg	94 kg	59kg	34.9 kg	
	VESA™ Standard Mount Interface	600 x 400 mm	600 x 400 mm	300 x 300 mm	300 x 300 mm	
KEY FEATURES	webOS 3.0+, IDB app, Crestron Connected® Certified, Mirroring, Soft AP, Beacon, Reader Mode, Auto Brightness Sensor, Internal Memory (64GB, System 8GB)					
SPECIAL FEATURES	Temperature Sensor, ISM method, DPM Select, Brightness Control, PM Mode, Wake on LAN, Energy Saving, File Play with USB, 2 PIP/PBP, Built-in Wi-Fi (802.11n Combo), USB Cloning, Failover, No Signal Image					
ENVIRONMENT CONDITIONS	Operation Temperature Range	32° F to 104° F	32° F to 104° F	32° F to 104° F	32° F to 104° F	
	Operation Humidity Range	10% to 80%	10% to 80%	10% to 80%	10% to 80%	
POWER	Power Supply	100-240V-, 50/60Hz	100-240V-, 50/60Hz	100-240V-, 50/60Hz	100-240V-, 50/60Hz	
	Power Type	Built-In Power	Built-In Power	Built-In Power	Built-In Power	
	Power Consumption	Typ.	≤ 330 W	≤ 240 W	≤ 120 W	≤ 100 W
		Smart Energy Saving	≤ 200 W	≤ 170 W	≤ 85 W	≤ 70 W
	DPM	≤ 0.5 W	≤ 0.5 W	≤ 0.5 W	≤ 0.5 W	
AUDIO	Built-in Speaker	20 W (10Wx2)	20 W (10Wx2)	20 W (10Wx2)	20 W (10Wx2)	
STANDARD (CERTIFICATION)	Safety	UL / cUL / CB / TUV / KC	UL / cUL / CB / TUV / KC	UL / cUL / CB / TUV / KC	UL / cUL / CB / TUV / KC	
	EMC	FCC Class "A" / CE / KCC	FCC Class "A" / CE / KCC	FCC Class "A" / CE / KCC	FCC Class "A" / CE / KCC	
MEDIA PLAYER COMPATIBILITY	OPS Type Compatible	Yes	Yes	Yes	Yes	
SOFTWARE COMPATIBILITY	Content Management Software	SuperSign Premium	SuperSign Premium	SuperSign Premium	SuperSign Premium	
	Control and Monitoring Software	SuperSign Link	SuperSign Link	SuperSign Link	SuperSign Link	
ACCESSORY	Basic	Remote Controller (include battery 2ea), Power Cord, QSG, HDMI (3M), Regulation Book, Phone to RS232C Gender, Touch Pen (2ea), Eyebolt (2ea, 86TR3D only), Touch Pen Tip (1ea, TC3D only)				
	Optional	OPS Kit (KT-OPSA), LSW640A/B (Wall Mount)				
TOUCH SPECIFICATIONS	Touch type	InGlass™**	P-Cap(Ag Metal Mesh)	P-Cap(Ag Metal Mesh)	P-Cap(Ag Metal Mesh)	
	Available object size for touch	more than Ø 3 mm	more than Ø 6 mm	more than Ø 6 mm	more than Ø 6 mm	
	Accuracy	2 mm	2 mm	2 mm	2 mm	
	Interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0	
	Protection Glass Thickness	4T (Anti-Glare)	4T (Anti-Glare)	3.2T (Anti-Glare)	3.2T (Anti-Glare)	
	Multi touch point	Max. 20 Points	Max. 40 Points	Max. 40 Points	Max. 40 Points	

* Brightness without protection glass
 ** Applied FlatFlog's InGlass™ Technology.



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