The best way to create and share ideas
LG Interactive Digital Board

TR3D/TC3D Series

LG | Business Solutions

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 Interactive Digital Board (IDB) has been developed as a means of maximizing the effectiveness of such meetings, aiming to reduce spending time and costs unnecessarily. The use of IDB will 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 Board?

The LG Interactive Digital Board(IDB), powered by IDB app, is the optimal solution to meet the requirements of all spaces where meetings might take place. It facilitates a successful meeting by driving participants to freely submit their ideas on the screen using the intuitive touch and writing tools, as well as increasing their engagement thanks to superb connectivity and high readability.

Experience Intuitive Touch and Writing

- The most advanced touch technology enables intuitive and precise touch responses
- The embedded writing application is an optimized tool for writing directly onto the board
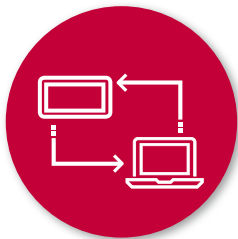
Facilitate Efficient Collaboration Without a PC

- 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

Ensure the Best Picture Quality

- Ultra HD resolution presents details clearly and without distortion even in zoom mode, resulting in clear images
- The LG IPS panel provides a wide viewing angle with accurate colors, no matter where attendees are in the meeting room
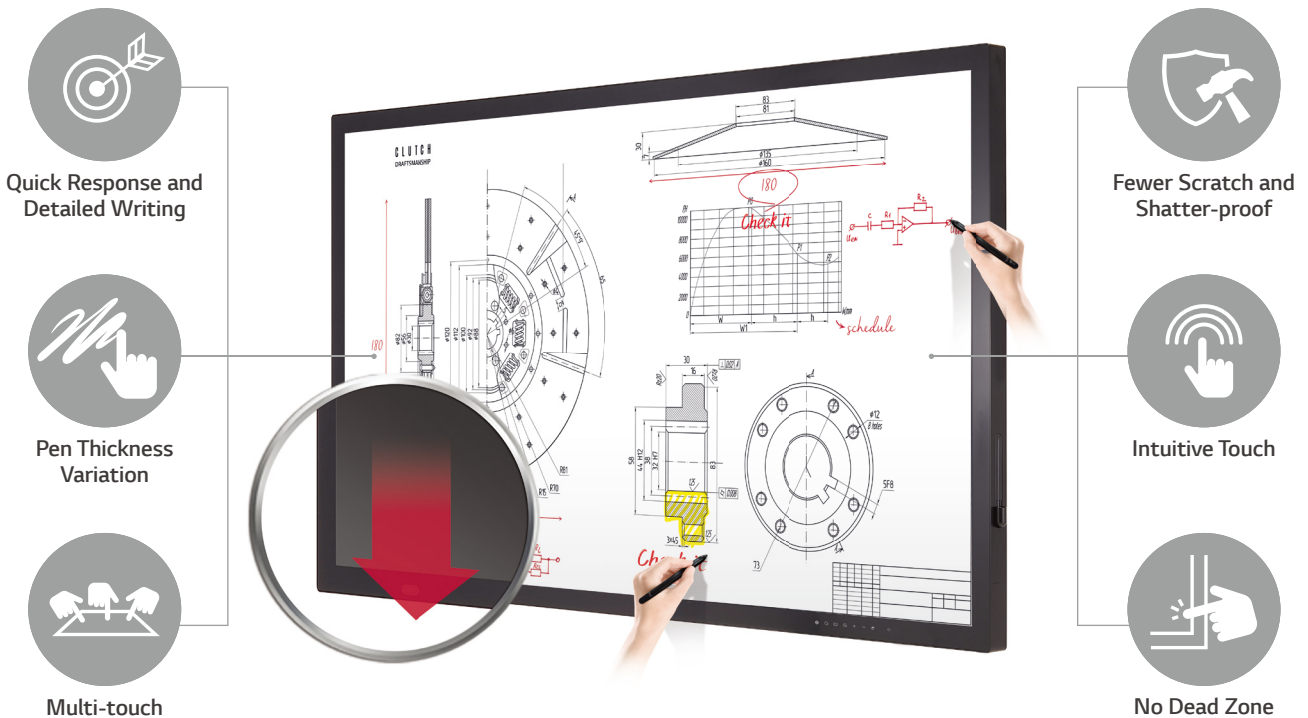
Maximize User Convenience

- User-friendly design and functions help participants to maintain full concentration in meetings by minimizing unnecessary processes and ensuring a comfortable environment

Experience Intuitive Touch and Writing

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

Quick Response and Detailed Writing

Pen Thickness Variation

Multi-touch

Fewer Scratch and Shatter-proof

Intuitive Touch

No Dead Zone

Precise Touch Performance

- **Quick Response and Detailed Writing**
  The screen recognizes even the smallest 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 (TR3D) to 40 points (TC3D) so that multiple participants can simultaneously use touch features.

- **Smooth Surface**
  As there is no need for sensors on the bezel, little or no gap space is required between the screen and bezel, meaning multiple participants can use touch features simultaneously.

- **Fewer Scratches and Shatter-proof**
  When a user touches a screen directly, this can result in scratches on the screen or even damage to the glass. 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 feels similar to their mobile phones or tablets.

- **No Dead Zone**
  Unlike IR touch screens, the display detects touch points even at the corner or edge of the display accurately.

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

Experience Intuitive Touch and Writing

With the most advanced built-in touch technology, 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.

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

• **Palm Erase**
Writers can freely take a note and easily erase it with their palm as they do when using a conventional whiteboard. *TR3D Only*
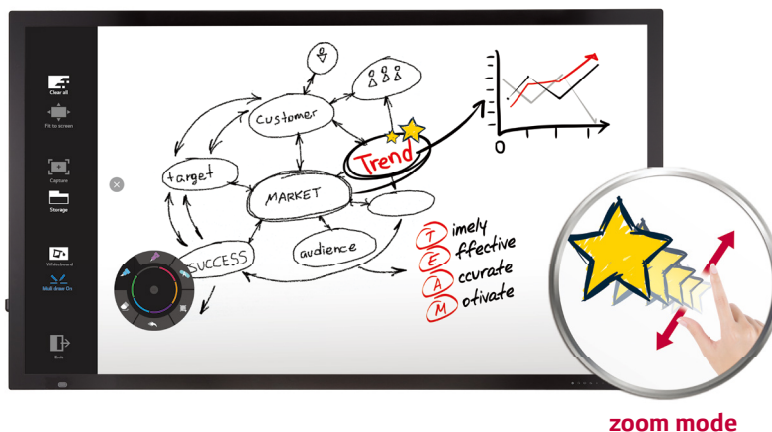
• **Screen Capture & Storage**
The written materials can be captured and automatically saved, which is useful when discussed content need to be stored by stages.

zoom mode

Floating Toor 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.
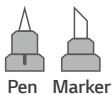
Pen Marker	Allows users to choose between a pen or marker for different levels of thickness in drawing, as well as different colors.
A Highlighter	Allows users to highlight certain information on the screen.
Eraser	Allows users to erase drawings and control the thickness of the eraser.
Select	Allows users to adjust the size of an object or change its location by clicking on it.
Undo	Allows users to undo the most recent action performed.

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

Facilitate Efficient Collaboration Without a PC

IDB app makes it possible to collaborate without the need for a PC based on the webOS 3.0+ smart platform.
Also, it is a complete way to enhance collaboration efficiency during a meeting, by combining whole processes which includes file sharing, writing, and saving on LG IDB.
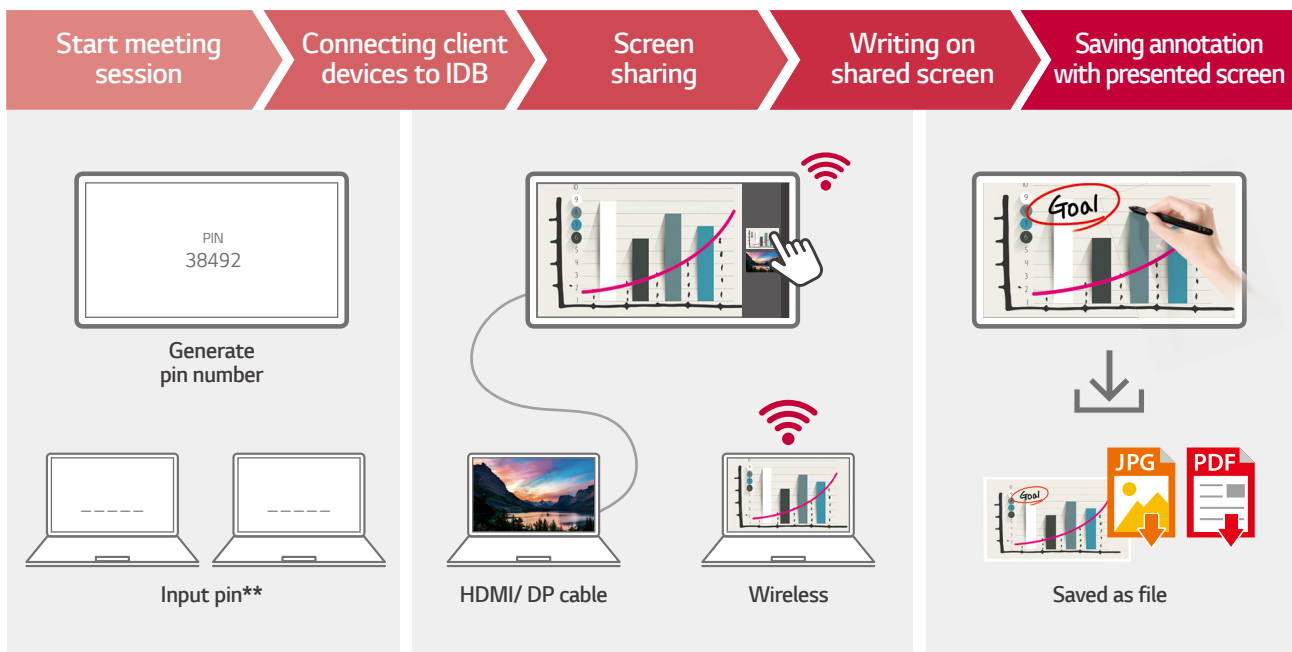
No Need For a PC

LG webOS 3.0+ is powered by high-performance 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
webOS 3.0+
High-performance SoC
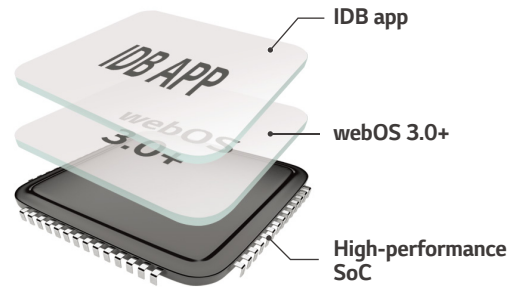
Optimized Work-flow for Efficient Collaboration

The LG IDB app provides users with a convenient and effective meeting experience beyond expectation. Incredibly, a virtual meeting space can be created in 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.

Start meeting session	Connecting client devices to IDB	Screen sharing	Writing on shared screen	Saving annotation with presented screen

PIN
38492

Generate pin number

Input pin**

HDMI/ DP cable

Wireless

Goal

JPG   PDF

Saved as file

Drawing Overlay on top of HDMI/DP and Save
HDMI or DP cables are still preferred among users when connecting their digital devices to IDB. LG IDB enables screen sharing using these 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 reduces unnecessary time spent wrapping-up or announcing meeting minutes.

Annotate on Mirrored Screen and Save
The whole process mentioned above is also available using 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 above feature is expected to be available at the end of 2017.
** The IDB companion (client app) installation is required. The download link will be released at the end of 2017.

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Ensure the Best Picture Quality

LG IDB provides the best picture quality regardless of content type and viewer position.

ULTRA HD
3,840 X 2,160

FULL HD
1,920 X 1,080
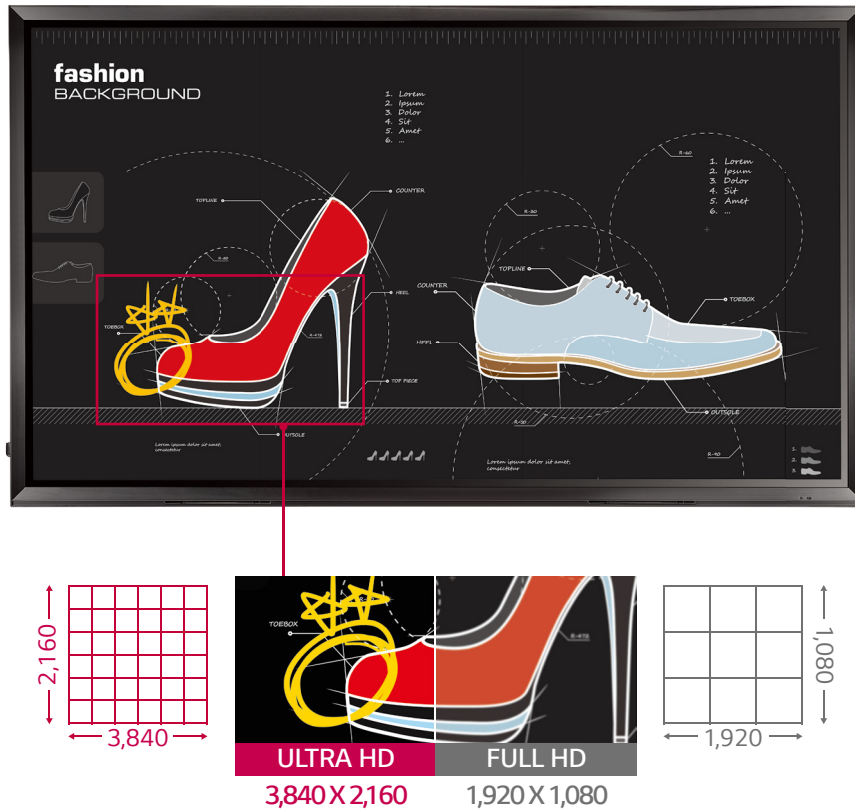
LG Ultra HD Technology with Ultra-high Resolution

IDB users often use the zoom-in function to view complex images such as design drawing in more detail or write on the presentation material. The UHD resolution of 86TR3D/75TC3D features 8.3 million pixels, which is 4 times that of 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 to meeting attendees.

LG IPS Panel with Wide Viewing Angle and True Color

Attendees in the meeting room may view the display from a wide viewing angle. The LG IPS panel has a wide viewing angle that delivers clear content, no matter where attendees are in the room. Moreover, every pixel in the IPS panel truly reproduces the image colors without distorting them. The outstanding color reproduction provides excellent user experience for employees in design industries such as architecture and fashion.

Maximize User Convenience

LG has enhanced operability for IDB users.

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*.

Touch USB

HDMI

**NO External Input Adjustment**

Editable Assistive Touch Menu

It was difficult to use the menu with the conventional IDB with large screen of 65" or more, since the setting menu could 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 a presentation, 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 TR3D and in the lower section of the front of the TC3D series, allowing users to easily turn the touch function on/off.
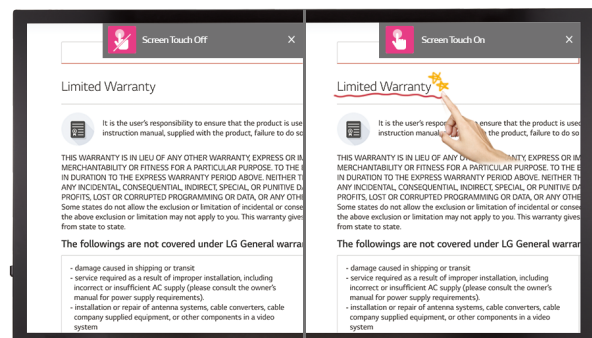
Touch Off   **Touch On**

Maximize User Convenience

LG has enhanced operability for IDB users.

Multi Screen with PBP/PIP

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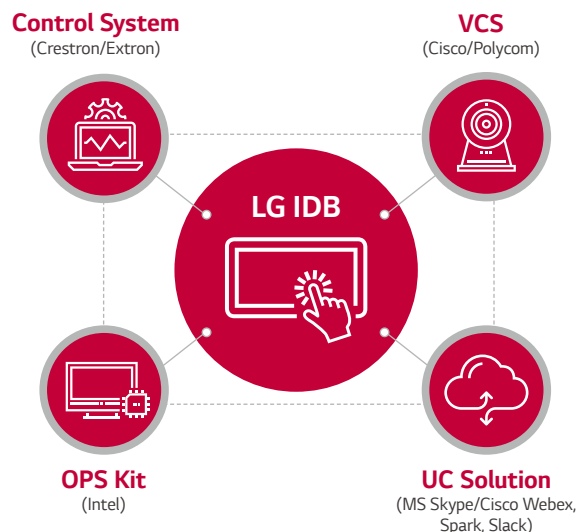
PBP

PIP
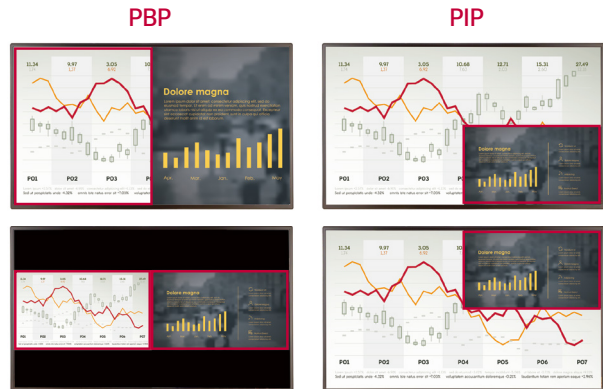
Eye Care Support

If a meeting is held for a long time, participants may feel their eyes growing tired and their concentration may ultimately suffer as a result. To prevent such problems, Reader mode decreases blue light, a cause of eye strain, by 70%, improving the comfort of those who are viewing the screen for a long time. Also 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.

70%
Blue light reduction

Auto Brightness Control

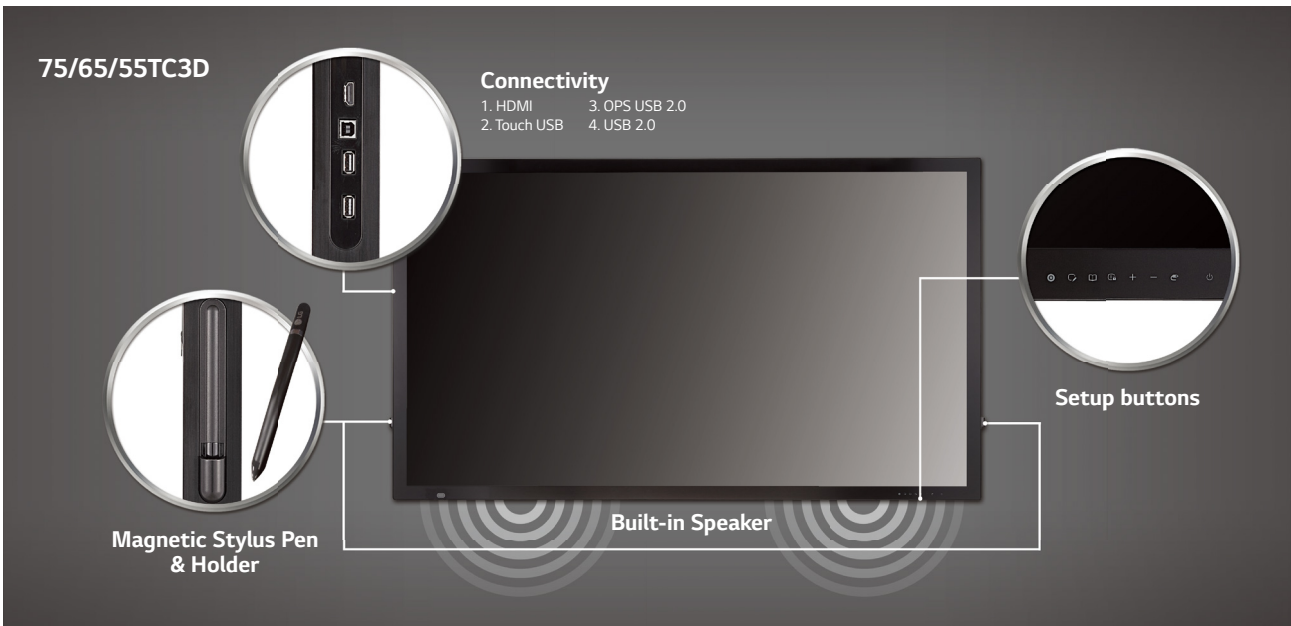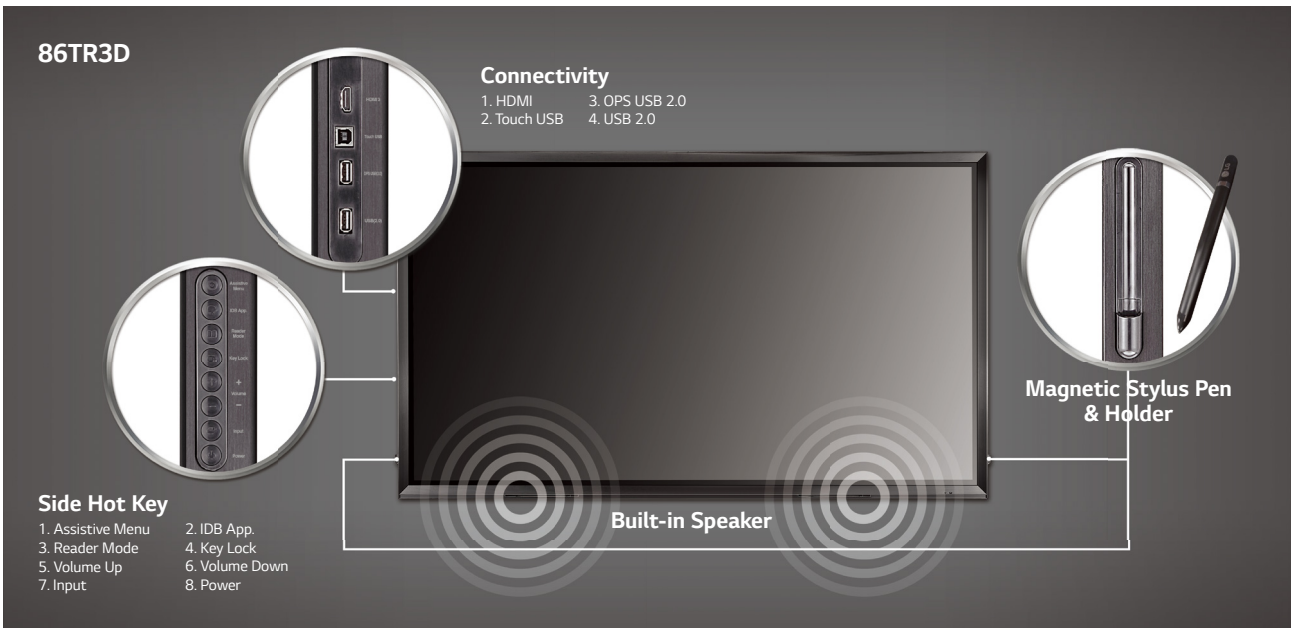**Conventional**   **Anti glare Coating**
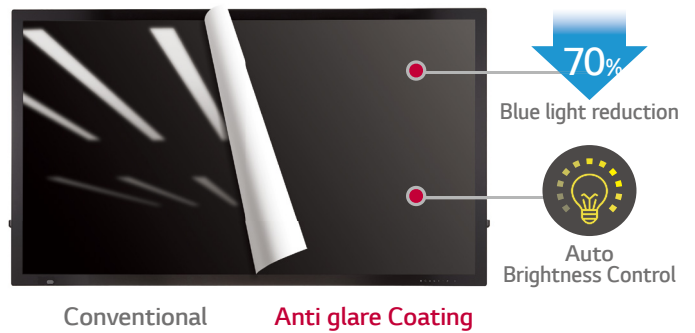
Compatibility with Partners

Compatibility is critical in meeting room environments that work with multiple devices. Especially 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.
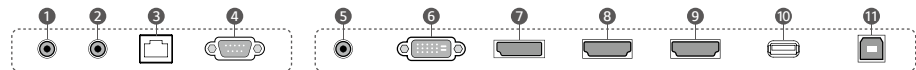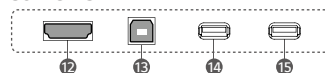
Control System
(Crestron/Extron)

VCS
(Cisco/Polycom)

LG IDB

OPS Kit
(Intel)

UC Solution
(MS Skype/Cisco Webex, Spark, Slack)

Product Information

86TR3D

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

Magnetic Stylus Pen & Holder

Built-in Speaker

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

75/65/55TC3D

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

Setup buttons

Magnetic Stylus Pen & Holder

Built-in Speaker

Connectivity

❶ RS232C out   ❾ HDMI 2
❷ RS232C in   ❿ USB 3.0
❸ LAN   ⓫ Touch USB
❹ RGB in   ⓬ HDMI 3
❺ Audio in   ⓭ Touch USB
❻ DVI-D in   ⓮ OPS USB (2.0)
❼ DP in   ⓯ USB 2.0
❽ HDMI 1   ⓰ USB 3.0

86TR3D REAR

❶ ❷ ❸ ❹   ❺ ❻ ❼ ❽ ❾ ❿ ⓫

86TR3D SIDE

⓬ ⓭ ⓮ ⓯

65/55TC3D REAR

❶ ❷ ❸   ❹ ❺ ❻ ❼ ❽ ❾ ⓰ ⓫

75TC3D REAR

❶ ❷ ❸ ❹   ❺ ❻ ❼ ❽ ❾ ⓰ ⓫

65/55/75TC3D SIDE

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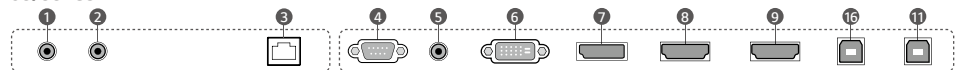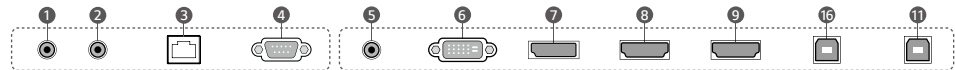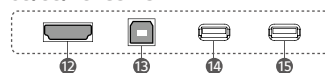
Specification

		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/m²	500 cd/m²	450 cd/m²	450 cd/m²
	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)	41.6mm(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 × 1,470 × 371 mm	1,870 × 1,264 × 285 mm (with pallet)	1,650 × 1,035 × 228 mm	1,369 × 890 × 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	0℃ to 40℃	0℃ to 40℃	0℃ to 40℃	0℃ to 40℃
	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
	Power Consumption — Smart Energy Saving	≤ 200 W	≤ 170 W	≤ 85 W	≤ 70 W
	Power Consumption — DPM	≤ 0.5 W	≤ 0.5 W	≤ 0.5 W	≤ 0.5 W
AUDIO	Built-in Speker	20 W (10W×2)	20 W (10W×2)	20 W (10W×2)	20 W (10W×2)
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.

LG Business Solutions