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Professional Display Global Website: panasonic.net/prodisplays
YouTube: www.youtube.com/PanasonicProDisplay

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PROFESSIONAL DISPLAYS

LINE-UP CATALOGUE SEPTEMBER 2014



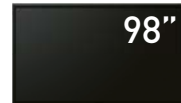
Panasonic Professional Displays Lineup

4K Large Display

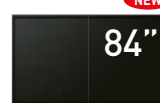


LQ70 Series

500 cd/m²



TH-98LQ70



TH-84LQ70

- Outstanding Picture Quality
- High Durability
- System Expandability



*Actual resolution : 3840 x 2160p



Indoor



LF50 Series

700 cd/m²



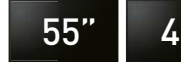
TH-80LF50



TH-70LF50

LF60 Series

700 cd/m²



TH-55LF60



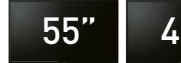
TH-47LF60



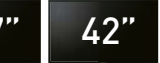
TH-42LF60

LF6 Series

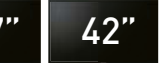
450 cd/m²



TH-55LF6



TH-47LF6



TH-42LF6

- High Brightness
- 24/7 Use Reliability
- System Expandability



(LF60/LF6 Series only)



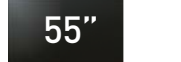
(LF50 Series only)

Video Wall



LFV70 Series

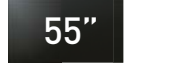
700 cd/m²



TH-55LFV70

LFV50 Series

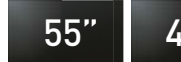
800 cd/m²



TH-55LFV50

LFV5 Series

500 cd/m²



TH-55LFV5



TH-47LFV5

- Super Narrow Bezel
- 24/7 Use Reliability
- Easy Installation & Connection



(LFV70 only)



(LFV70 only)



Outdoor



LFX60 Series

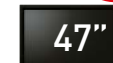
2000 cd/m²



TH-47LFX60

LFX6N Series

1200 cd/m²



TH-47LFX6N

- High Visibility Under Sunlight
- Durability Against Rain/Dust
- System Expandability

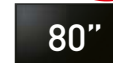


Multi Touch Screen

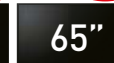


LFB70 Series

350 cd/m²



TH-80LFB70



TH-65LFB70



TH-50LFB70

- Easy set-up & Operation
- Wireless & Network Capability
- ECO & Good Usability

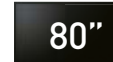


Network

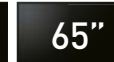


LFC70 Series

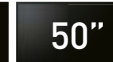
350 cd/m²



TH-80LFC70



TH-65LFC70



TH-50LFC70

- Bright Clear Image Quality
- Wireless & Network Capability
- Low Power Consumption

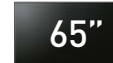


Standard

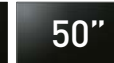


LFE7 Series

350 cd/m²



TH-65LFE7



TH-50LFE7



TH-42LFE7

- Slim & Stylish Design
- High Picture Quality & Ecology
- LAN & RS232C Control Capability



LQ Series



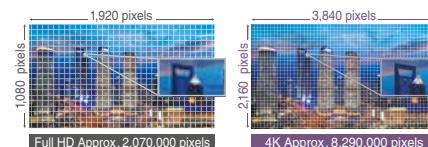
Model no.		TH-98LQ70	TH-84LQ70
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	98-inch/16:9	84-inch/16:9
	Panel Type	LCD IPS Panel/D-LED	LCD IPS Panel/E-LED
	Effective Display Area (W x H)	2,159 x 1,215 mm	1,861 x 1,047 mm
	Number of Pixels (H x V)	3,840 x 2,160 pixels	3,840 x 2,160 pixels
	Brightness (Typ)	500 cd/m ²	500 cd/m ²
	Contrast Ratio	1,300 :1	1,400 :1
	Response Time	8 ms (G to G)	12 ms (G to G)
	Viewing Angle (Horizontal/Vertical)	178° / 178°	178° / 178°
TERMINAL	HDMI In	HDMI TYPE A Connector x 2 (Up to 4K@ 50/60 Hz)*1, HDMI TYPE A Connector x 2 (Up to 2K@ 50/60 Hz)*1	
	DisplayPort In	DisplayPort x 1 (DP1.2a)*1	
	DVI-D In	DVI-D 24pin x 1	
	Audio In (L/R)	Pin Jack x 1 set	
	PC In	D-sub 15-pin x 1 (Female)*2	
	Audio In (L/R)	Pin Jack x 1 set	
	Audio Out	Stereo Mini Jack (M3) x 1	
	Optical Out	Opt Out x 1	
	Serial In / Out	D-sub 9-pin x 1 / x 1, RS-232C Compatible	
	LAN	RJ45 x 1 100BaseTX, Compatible with PLink™ (Shared with DIGITAL LINK)	
GENERAL	DIGITAL LINK	RJ45 x 1 (Shared with LAN)	
	Function Slot	Yes	
	Power Requirements	220-240 V AC, 50/60 Hz	
	Power Consumption	T.B.D.	T.B.D.
	Power Off Condition	T.B.D.	T.B.D.
	Stand-by Condition	T.B.D.	T.B.D.
	Dimensions (WxHxD)	2,233 x 1,288 x 122 mm*3	1,949 x 1,141 x 99 mm*3
	Carton Size (W x H x D)	2,664 x 1,756 x 720 mm	2,194 x 1,480 x 549 mm
	Bezel Width	32.5 mm	32.5 mm
	Weight	Approx. 140 kg*4	Approx. 100 kg*4
OPTIONS	Gross Weight	Approx. 226 kg*4	Approx. 128 kg*4
	Protective Glass	Yes	Yes
	Built-in Speaker	20W [10W + 10W]	
	Operating Environment	Temperature: 0 °C to 40 °C / Humidity: 20 % to 80 % (Non condensation)	
	Storage Environment	Temperature: -20 °C to 60 °C / Humidity: 20 % to 80 % (Non condensation)	
	Pedestal	TY-ST103PF9	TY-ST85P12
	Wall-hanging Bracket	TY-WK103PV9	TY-WK85PV12
	Ceiling-hanging Bracket	TY-CE103PS10	TY-CE85PS12
	Mobile Stand	—	TY-ST85PB1
	Terminal Board	3G-SDI Terminal Board* *Require 2 boards for up to 4K/60p, Require 1 board for up to 4K/30p	

*1 : HDCP supported, Embedded audio supported *2 : RGB/YpPr switchable *3 : Accuracy ±5 mm *4 : Accuracy ±10 kg

4K Large Display

Delicate Panasonic 4K Images Right Down to the Details

High resolution of approximately 8,290,000 pixels, which is four times the level of Full-HD, produces highly detailed images. The dynamic, large-screen view displays intricate realism. The high-resolution screen improves visibility to raise work efficiency and enhance your image while drawing more attention from your customers.



4K Resolution is Essential for Large-Screen Viewing

As screen sizes continue to grow, grainy images become more obvious even with Full-HD quality. This calls for the excellent resolution of 4K, which is ideal for small-to-medium size meeting rooms, commercial signage, and other displays that are commonly viewed at a close distance.



Non-4K Sources are Also Beautifully Compensated

Image Enhancement technology also displays Full-HD images and PC signals with extreme sharpness. It up-converts non-4K sources to a high level of image quality. Moving images, which were previously difficult to compensate, are also smooth and clear.



Impact Resistance Allows Use in Public Spaces

The front of the display is provided with a protective glass panel, and the cabinet is aluminum for rugged durability. It can safely be used in public spaces where a lot of people pass by, such as commercial facilities, train/bus stations and airports.



Designed for Easy Installation

Panasonic 4K displays are built to withstand vibration and impact, making them easy to transport and set up. Similar to conventional, large-screen plasma displays, eye bolts can be mounted in the installation screw holes for lifting by pulley or crane. This saves considerable work during set up.

Ideal Replacements for Large-Screen Displays

The screw holes for the new 4K displays are in the same location as previous Panasonic large-screen plasma displays, enabling easy use of existing brackets and other installation items. Since the existing equipment can be used after replacement, you save space and reduce costs.

New SLOT for Versatile Use

The New SLOT enables easy interface switching to match a variety of uses. A 4K interface will also be available in the future. Customizing input/output terminals and other specifications to match the application lets you easily expand business possibilities.

* 3G-SDI is supported by an optional terminal board.

A wide range of professional 4K required applications

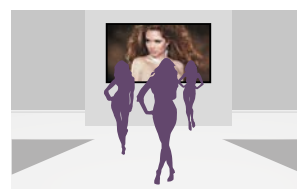
Public Information



Signage



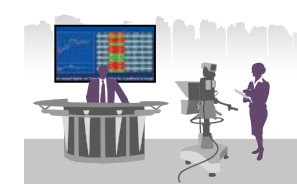
Rentals & Staging



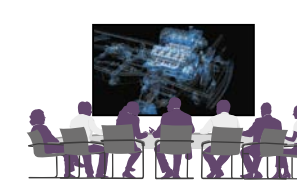
Control Rooms



Broadcast Studios



Meeting Rooms



LF Series

Indoor



Model no.		TH-80LF50	TH-70LF50		TH-55LF60	TH-47LF60	TH-42LF60
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	80-inch (2,032 mm)/16:9	70-inch (1,765 mm)/16:9		55-inch (1,387 mm)/16:9	47-inch (1,192 mm)/16:9	42-inch (1,067 mm)/16:9
	Panel Type	LCD VA Panel/E-LED	LCD VA Panel/E-LED		LCD IPS Panel/E-LED	LCD IPS Panel/E-LED	LCD IPS Panel/E-LED
	Effective Display Area (W x H)	1,771 x 996 mm	1,538 x 865 mm		1,209 x 680 mm	1,039 x 584 mm	930 x 523 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels		1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	700 cd/m ² (Typ)	700 cd/m ² (Typ)		700 cd/m ² (Typ)	700 cd/m ² (Typ)	700 cd/m ² (Typ)
	Contrast Ratio	5,000:1	5,000:1		1,300:1	1,300:1	1,300:1
	Response Time	9 ms (G to G)	9 ms (G to G)		12 ms (G to G)	12 ms (G to G)	12 ms (G to G)
	Viewing Angle	178°/178°	178°/178°		178°/178°	178°/178°	178°/178°
TERMINAL	VIDEO In	BNC x 1			BNC x 1		
	Audio In (L/R)	Pin Jack x 1 set			Pin Jack x 1 set		
	HDMI In	HDMI Type A Connector x 1			HDMI Type A Connector x 2		
	Component/RGB In	BNC x 1 set			BNC x 1 set		
	Audio In (L/R)	Pin Jack x 1 set			Pin Jack x 1 set		
	DVI-D In	DVI-D 24-pin x 1			DVI-D 24-pin x 1		
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with PC In)			Stereo Mini Jack (M3) x 1 (Shared with PC In)		
	DVI-D Out	DVI-D 24-pin x 1			DVI-D 24-pin x 1		
	PC In	Mini D-Sub 15-pin x1 (Female)			Mini D-Sub 15-pin x 1 (Female)		
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)			Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)		
	Audio Out (L/R)	Pin Jack x 1 set			Stereo Mini Jack (M3) x 1		
	Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible			D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible		
	DIGITAL LINK	—			RJ45 x 1 (Shared with LAN)		
GENERAL	LAN	RJ45 10BASE-T/100BASE-TX, Compatible with PLink™			RJ45 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)		
	IR In/Out	—			IR x 1/x 1		
	Function Slot	SLOT2.0 x 1			—		
	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz		220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumption	Approx. 380 W	Approx. 260 W		Approx. 150 W	Approx. 140 W	Approx. 125 W
	Power Off Condition	Approx. 0.3 W	Approx. 0.3 W		Approx. 0.3 W	Approx. 0.3 W	Approx. 0.3 W
	Stand-by Condition	Approx. 0.5 W	Approx. 0.5 W		Approx. 0.5 W	Approx. 0.5 W	Approx. 0.5 W
	Dimensions (W x H x D)	1,848 x 1,073 x 89 mm	1,604 x 931 x 89 mm		1,248 x 718 x 68 mm	1,076 x 621 x 68 mm	967 x 560 x 68 mm
	Carton Size (W x H x D)	1,993 x 1,188 x 349 mm	1,750 x 1,047 x 349 mm		1,411 x 940 x 204 mm	1,210 x 826 x 204 mm	1,113 x 705 x 222 mm
	Bezel Width	36 mm	30 mm		16 mm	16 mm	16 mm
OPTIONS	Weight	Approx. 60.0 kg	Approx. 47.0 kg		Approx. 25.8 kg	Approx. 16.7 kg	Approx. 14.5 kg
	Gross Weight	Approx. 71.0 kg	Approx. 56.0 kg		Approx. 31.5 kg	Approx. 21.8 kg	Approx. 18.5 kg
	Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm		VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm
	Built-in Speakers	—			10 W [5W x 5 W]	10 W [5W + 5 W]	10 W [5W + 5 W]
	Operating Environment	Temperature: 0 °C to 40 °C / Humidity: 20 % to 80 % (Non Condensation)			Temperature: 0 °C to 40 °C / Humidity: 20 % to 80 % (Non Condensation)		
	Storage Environment	Temperature: -20 °C to 60 °C*1 / Humidity: 20 % to 80 % (Non Condensation)			Temperature: -20 °C to 60 °C / Humidity: 20 % to 80 % (Non Condensation)		
	Pedestal	TY-ST65P20	TY-ST58P20		TY-ST58P20	TY-ST42P50	TY-ST42P50
	Wall-hanging Bracket	TY-WK70PV50	TY-WK70PV50		—	—	—
	Protective Glass	TY-PG80LF50	TY-PG70LF50		—	—	—
	Digital Interface Box	—	—		ET-YFB100G	ET-YFB100G	ET-YFB100G
OPTIONS	Early Warning Software	—	—		ET-SWA100	ET-SWA100	ET-SWA100
	Multi Window Processor	ET-MWP100G	ET-MWP100G		ET-MWP100G	ET-MWP100G	ET-MWP100G
	HD-SDI Terminal Board	TY-FB10HD	TY-FB10HD		—	—	—
	Dual HDMI Terminal Board	TY-FB10HMD	TY-FB10HMD		—	—	—
	Slot in PC	PLUGTHA54*2	PLUGTHA54*2		—	—	—

*1 : If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

*2 : Europe only.



Model no.		TH-55LF6	TH-47LF6	TH-42LF6
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	55-inch (1,387 mm)/16:9	47-inch (1,192 mm)/16:9	42-inch (1,067 mm)/16:9
	Panel Type	LCD IPS Panel/E-LED	LCD IPS Panel/E-LED	LCD IPS Panel/E-LED
	Effective Display Area (W x H)	1,209 x 680 mm	1,039x 584 mm	930 x 523 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	450 cd/m ² (Typ)	450 cd/m ² (Typ)	450 cd/m ² (Typ)
	Contrast Ratio	1,300:1	1,300:1	1,300:1
	Response Time	12 ms (G to G)	12 ms (G to G)	12 ms (G to G)
	Viewing Angle	178°/178°	178°/178°	178°/178°
TERMINAL	VIDEO In	BNC x 1		BNC x 1
	Audio In (L/R)	Pin Jack x 1 set		Pin Jack x 1 set
	HDMI In	HDMI Type A Connector x 2		HDMI Type A Connector x 2
	Component In	BNC x 1 set		BNC x 1 set
	Audio In (L/R)	Pin Jack x 1 set		Pin Jack x 1 set
	DVI-D In	DVI-D 24-pin x 1		DVI-D 24-pin x 1
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with PC In)		Stereo Mini Jack (M3) x 1 (Shared with PC In)
	DVI-D Out	DVI-D 24-pin x 1		DVI-D 24-pin x 1
	PC In	Mini D-Sub 15-pin x1 (Female)		Mini D-Sub 15-pin x1 (Female)
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)		Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)
	Audio Out (L/R)	Stereo Mini Jack (M3) x 1		Stereo Mini Jack (M3) x 1
	Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible		D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible
	DIGITAL LINK	RJ45 x 1 (Shared with LAN)		RJ45 x 1 (Shared with LAN)
	LAN	RJ45 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)		RJ45 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)
GENERAL	IR In/Out	IR x 1/x 1		IR x 1/x 1
	Function Slot	—		—
	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumption	150 W	140 W	125 W
	Power Off Condition	Approx. 0.3 W	Approx. 0.3 W	Approx. 0.3 W
	Stand-by Condition	Approx. 0.5 W	Approx. 0.5 W	Approx. 0.5 W
	Dimensions (W x H x D)	1,248 x 718 x 68 mm	1,076 x 621 x 68 mm	967 x 560 x 68 mm
	Carton Size (W x H x D)	1,411 x 940 x 204 mm	1,210 x 826 x 204 mm	1,113 x 705 x 222 mm
	Bezel Width	16 mm	16 mm	16 mm
	Weight	Approx. 25.8 kg	Approx. 16.7 kg	Approx. 14.5 kg
	Gross Weight	Approx. 31.5 kg	Approx. 21.8 kg	Approx. 18.5 kg
	Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm
	Built-in Speakers	10 W [5W x 5 W]	10 W [5W + 5 W]	10 W [5W + 5 W]
	Operating Environment	Temperature: 0 °C to 40 °C / Humidity: 20 % to 80 % (Non Condensation)		Temperature: 0 °C to 40 °C / Humidity: 20 % to 80 % (Non Condensation)
	Storage Environment	Temperature: -20 °C to 60 °C / Humidity: 20 % to 80 % (Non Condensation)		Temperature: -20 °C to 60 °C / Humidity: 20 % to 80 % (Non Condensation)
OPTIONS	Pedestal	TY-ST58P20	TY-ST42P50	TY-ST42P50
	Digital Interface Box	ET-YFB100G	ET-YFB100G	ET-YFB100G
	Early Warning Software	ET-SWA100	ET-SWA100	ET-SWA100
	Multi Window Processor	ET-MWP100G	ET-MWP100G	ET-MWP100G

Bright, Full HD (1920 x 1080) Professional LED Display

LF50 LF60 LF6

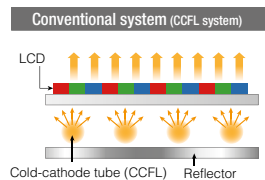
In addition to the high resolution of Full-HD and the wide viewing angle of the IPS panel, the LF Series features high brightness. This makes it possible to display crisp, clear images even in bright places, for signage with excellent information transmission performance.



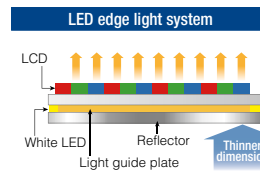
IPS Panel and LED Backlight Provide Light Weight, a Thin Profile, and Low Power Consumption

LF60 LF6

Detailed Full-HD picture quality and the wide viewing angle of the IPS panel produce clear, beautiful images in large spaces. The use of an LED backlight allows signage to be used for long periods with excellent visibility and low power consumption, to help reduce running costs.



The CCFL system requires the installation of multiple tubes that illuminate in the same way as fluorescent lamps behind the LCD panel. Thus, the display unit becomes thick.

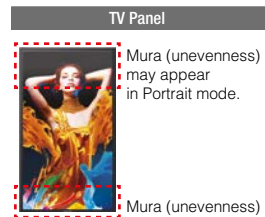


The edge light system requires a small number of LED units because the lights are installed only on the edges of the LCD panel. This saves energy. The display unit can also be made thin and light.

Flexible, Vertical Installation

LF50 LF60 LF6

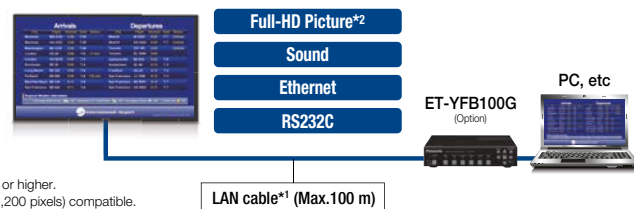
The display can be installed either horizontally or vertically to match the content and installation location without being affected by "Mura" (unevenness). This is because the display has relatively uniform pressure distribution as compared to a TV panel, which results in far better stability. Regardless of the installation direction, the LED backlight life stays the same since a constant operating temperature is maintained.



DIGITAL LINK Function Enables Simple Installation and Low System Costs

LF60 LF6

Using DIGITAL LINK makes it possible to transmit video, audio and control signals over a long distance (up to 100 m) with a single LAN cable*1. Easy cabling also reduces labor during setup. This provides transmission of high-quality images and sounds, as well as remote control.



*1: CAT5e (STP) cable or higher.
*2: WUXGA (1,920 x 1,200 pixels) compatible.

24/7 Operation

LF50 LF60 LF6

The tough design makes the display panel suitable for use as signage that operates all day and night in places such as restaurants, shopping malls and transportation facilities.



* In case of long time, the moving image is recommended to be displayed. If you display a still picture for an extended period, the image retention might remain on the screen. However, image retention can gradually disappear by displaying a moving images.

Fan-less Design

LF50 LF60 LF6

The fan-less design prevents malfunctions otherwise caused by dust particles brought in by the fan. This enables safe installation in crowded areas.

Built-in Speaker

LF60 LF6

The speaker is built into the rear of the display. There is no need for external speakers when using content that has a soundtrack.



Stylish Slim Design and Light Weight

LF50 LF60 LF6

Narrow bezel allows it to blend in with the installation space and gives greater visibility to the images on display. The bezel is also less noticeable in multi-screen displays, for effective large-screen applications.

A Slim Design that Fits almost any Installation Location

LF50 LF60 LF6

The display can be installed in a permanent hanging position using eyebolts. Wall-mount brackets and hanging fixtures in compliance with VESA specifications can also be used for flexible installation.

* 55-inch only.



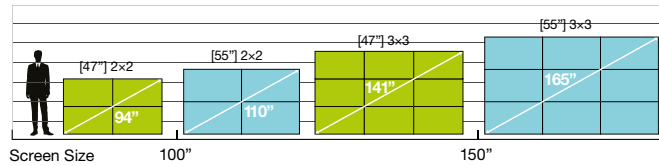


Model no.		TH-55LFV70	TH-55LFV50		TH-55LFV5	TH-47LFV5
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	55-inch (1,387mm)/16:9	55-inch (1,387 mm)/16:9		55-inch (1,387 mm)/16:9	47-inch (1,192 mm)/16:9
	Panel Type	LCD IPS Panel/D-LED	LCD IPS Panel/D-LED		LCD IPS Panel/D-LED	LCD IPS Panel/D-LED
	Effective Display Area (W x H)	1,209 x 680 mm	1,209 x 680 mm		1,209 x 680 mm	1,039 x 584 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels		1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	700 cd/m ²	800 cd/m ² (Typ)		500 cd/m ² (Typ)	500 cd/m ² (Typ)
	Contrast Ratio	1,200:1	1,400:1		1,400:1	1,400:1
	Response Time	12 ms (G to G)	10 ms (G to G)		10 ms (G to G)	12 ms (G to G)
	Dynamic Contrast Ratio	T.B.D.	500,000:1		500,000:1	500,000:1
	Viewing Angle	178°/178°	178°/178°		178°/178°	178°/178°
Panel Surface Treatment		Anti-glare treatment (Haze 44%)	Anti-Reflection		Anti-Glare Treatment (Haze 10 %)	Anti-Glare Treatment (Haze 10 %)
TERMINAL	VIDEO In	BNC x 1	BNC x 1		BNC x 1	BNC x 1
	Audio In (L/R)	Pin Jack x 1 set (Shared with Component In)	Pin Jack x 1 set (Shared with Component In)		Pin Jack x 1 set (Shared with Component In)	Pin Jack x 1 set (Shared with Component In)
	HDMI In	HDMI Type A Connector x 1	HDMI Type A Connector x 1		HDMI Type A Connector x 1	HDMI Type A Connector x 1
	Component/RGB In	BNC x 1 set	BNC x 1 set		BNC x 1 set	BNC x 1 set
	Audio In (L/R)	Pin Jack x 1 set (Shared with Video In)	Pin Jack x 1 set (Shared with VIDEO In)		Pin Jack x 1 set (Shared with VIDEO In)	Pin Jack x 1 set (Shared with VIDEO In)
	DVI-D In	DVI-D 24-pin x 2	DVI-D 24-pin x 1		DVI-D 24-pin x 1	DVI-D 24-pin x 1
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with PC In)	Stereo Mini Jack (M3) x 1 (Shared with PC In)		Stereo Mini Jack (M3) x 1 (Shared with PC In)	Stereo Mini Jack (M3) x 1 (Shared with PC In)
	DisplayPort In	DisplayPort x 1	—		—	—
	DVI-I Out	—	DVI-I 29-pin x 1		DVI-I 29-pin x 1	DVI-I 29-pin x 1
	PC In	Mini D-sub 15-pin x 1	Mini D-sub 15-pin x1 (Female)		Mini D-Sub 15-pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)		Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)
	DIGITAL LINK In	RJ45 x 1	—		—	—
	DIGITAL LINK Out	RJ45 x 1	—		—	—
	USB	USB (Type A) x 1	—		—	—
	Audio Out (L/R)	Pin Jack x 1 set	Pin Jack x 1 set		Pin Jack x 1 set	Pin Jack x 1 set
GENERAL	Serial In/Out	D-sub 9-pin x 2/D-sub 9-pin x 2, RS-232C Compatible	D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible		D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible	D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible
	IR Transmitter In/Out	Stereo Mini Jack (M3) x 1/ x 1	IR x 1/x 1		IR x 1/x 1	IR x 1/x 1
	LAN	RJ45 x 1 (Shared with DIGITAL LINK)	RJ45 x 1 (Web Browser Control Only)		RJ45 x 1 (Web Browser Control Only)	RJ45 x 1 (Web Browser Control Only)
	Power Requirements	220-240 V AC, 50/60 Hz	220-240 V AC, 50 Hz/60 Hz		220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumption	T.B.D.	320 W		220 W	160 W
	Stand-by Condition	T.B.D.	Approx. 0.5 W		Approx. 0.5 W	Approx. 0.5 W
	Dimensions (W x H x D)	T.B.D.	1,216 x 687 x 122 mm		1,216 x 687 x 122 mm	1,045 x 590 x 109 mm
	Carton Size (W x H x D)	T.B.D.	1,551 x 979 x 450 mm		1,551 x 979 x 450 mm	1,420 x 995 x 514 mm
	Bezel Width	2.25 mm (Left/Top), 1.25 mm (Right/Bottom)	3.4 mm (Left/Top), 1.9 mm (Right/Bottom)		3.4 mm (Left/Top), 1.9 mm (Right/Bottom)	3.2mm (Left/Top), 1.7 mm (Right/Bottom)
	Bezel to Bezel	3.5 mm (Multi Screen)	5.3 mm (Multi Screen)		5.3 mm (Multi Screen)	4.9 mm (Multi Screen)
	Weight	T.B.D.	Approx. 36.0 kg		Approx. 36.0 kg	Approx. 25.0 kg
	Gross Weight	T.B.D.	Approx. 48.0 kg		Approx. 52.0 kg	Approx. 40.0 kg
	Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm		VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm
	External Speaker	8 Ω, 20 W [10 W + 10 W]	8 Ω, 20 W [10 W + 10 W]		8 Ω, 20 W [10 W + 10 W]	8 Ω, 20 W [10 W + 10 W]
	Operating Environment	Temperature: 0 °C to 40 °C / Humidity: 10 % to 90 % (Non Condensation)			Temperature: 0 °C to 40 °C / Humidity: 10 % to 90 % (Non Condensation)	
	Storage Environment	Temperature: -20 °C to 60 °C / Humidity: 10 % to 90 % (Non Condensation)			Temperature: -20 °C to 60 °C / Humidity: 10 % to 90 % (Non Condensation)	
OPTIONS	Remote Control Kit	TY-RM50VW	TY-RM50VW		TY-RM50VW	TY-RM50VW
	Cover Frame Kit	T.B.D.	TY-CF55VW50		TY-CF55VW50	TY-CF47VW5
	Installation Mount	TY-VK55LV1	TY-VK55LV1		TY-VK55LV1	—
	Multi Window Processor	ET-MWP100G	ET-MWP100G		ET-MWP100G	ET-MWP100G

Super Narrow Bezel LED Display LFB Series

Video Wall Sizes to Match the Installation Location

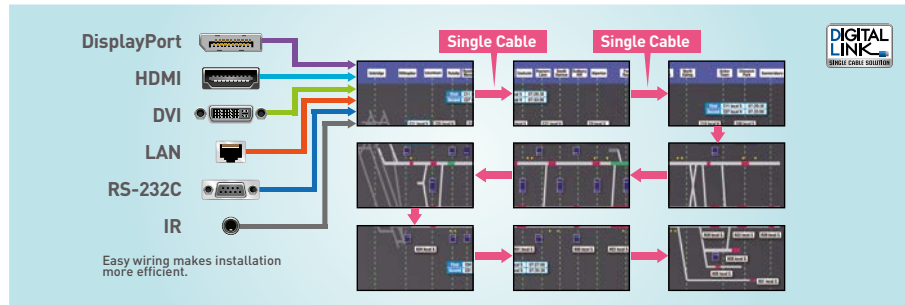
This newly released 47-inch model lets you choose the video wall size to match your installation conditions.



Video, Audio, and Control Signals Can Be Distributed by DIGITAL LINK Single Cable Daisy Chain

LFB70

The terminal board for the LFB70 Series is equipped with a DIGITAL LINK output terminal. Video, audio and control signals are combined into one DIGITAL LINK signal and can be transmitted by single cable daisy chain connection. This enables not only a multi-screen system to be configured using only displays and video sources with no need for a video splitter or other device, but also easy installation and control of multi-screen system thanks to simple cabling.



High Reliability Enables Continuous 24-Hour Operation and Portrait Installation

LFB70 LFB50 LFB5

The use of a highly durable panel and electronic components allows continuous 24-hour operation, ideal for installation in public places, surveillance stations, etc. A built-in cooling fan automatically operates (when set to Auto) depending on the temperature. This prevents overheating in the upper screens of a multi-screen installation, which are easily subject to heating. The LFB Series can also be installed either horizontally or vertically, without any difference in panel life, so there is no effect on TCO.

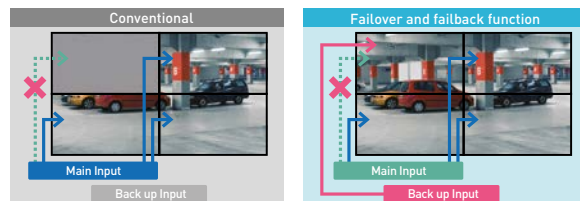
* In case of long time, the moving image is recommended to be displayed. If you display a still picture for an extended period, the image retention might remain on the screen. However, image retention can gradually disappear by displaying a moving images.



Failover and Failback Functions Support Emergency Situations

LFB70

The LFB70 Series is equipped with digital signal input terminals of two DVI-D, HDMI, DisplayPort, DIGITAL LINK, and USB. If the main video and audio signals are interrupted, the system immediately switches to alternative signals. This makes it ideal for mission critical control rooms and surveillance centers.



If the main display signal is interrupted, the image is simply cut off.

Even if the main display signal is interrupted, the system switches to a back-up signal, so the image is not cut off.

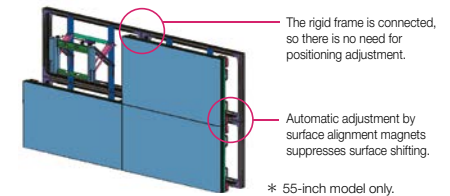
Video Wall

LFB70 LFB50 LFB5

Installation Frame Simplifies Set-up

The optional Installation Mount makes it much easier to configure a video wall. There's no need for complicated display positioning, and fluctuations between installers are covered. It also saves time and cuts labor costs.

Video wall fluctuations occur when the bezels are not correctly aligned vertically and horizontally and the surfaces are not properly adjusted. Installation is quick and easy using the rigid frame, with easy adjustment using surface alignment magnets. This structure also makes the displays easier to remove when performing maintenance.



* 55-inch model only.

Calibration Functions Support Multi-Screen Installation

New calibration software

LFB70 LFB50 LFB5

Color differences can develop between displays as time passes after multi-screen installation. This new calibration software supports sensors that are sold by a variety of suppliers. It lets you adjust colors while using your existing calibration sensor.

Pre-calibration

LFB70 LFB50 LFB5

The color is adjusted on the LFB Series when it is shipped from the factory so there is no adjustment necessary during installation, which greatly shortens the time required for multi-screen installation. Color differences between the displays are also suppressed in order to display natural-looking images.

* In some cases, visual adjustment is necessary during multi-screen installation.

A wide viewing angle with the IPS Panel

LFB70 LFB50 LFB5

No information is lost when viewed from right or left angles, and images are clear and easy to see.



Ultra Narrow Bezel with 3.5mm Thickness

LFB70

The ultra-narrow bezel results in joints that are only 3.5 mm (0.14") wide for video wall installations. Even in large-screen configurations, the screen borders can barely be seen, so images are powerful and natural.



* TH-55LFB70 only.

Turnkey Solution for Multi-window Presentations

LFB70 LFB50 LFB5

The ET-MWP100G Panasonic Multi-Window Processor (option) makes it possible to quickly and efficiently combine multiple displays and projectors into a video wall or a multi vision system. The ET-MWP100G can be used to build a wide range of creative, impressive images that were never before possible, including video walls, digital signage, TV studio displays, and live stage screens.

Major Features

- Single or multiple output layouts and multiple canvases
- Simultaneous use of multiple layouts and canvases
- One or more windows (PinPs) on each canvas with 360° rotation of each window
- 16 interface board slots
- Low power consumption of max 160 W* with 16 interface boards mounted
- Bezel area adjustment capable for flat panel displays



Multi-Window Processor
ET-MWP100G (Option)

*When using a single power supply unit. The power consumption becomes 180 W when the optional ET-RPS100G power supply unit is added.

Output Pattern Example

■ Multiple picture in picture



Four displays



■ Free layout for different display device



Projector and displays





NEW

	Model no.	TH-47LFX60	TH-47LFX6N
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	47-inch (1,192 mm)/16:9	47-inch (1,192 mm)/16:9
	Panel Type	LCD IPS Panel/D-LED	LCD IPS Panel/D-LED
	Effective Display Area (W x H)	1,039 x 584 mm	1,039 x 584 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	2,000 cd/m ² (Typ)	1,200 cd/m ² (Typ)
	Contrast Ratio	1,300:1	1,300:1
	Response Time	10 ms (G to G)	10 ms (G to G)
	Viewing Angle	178°/178°	178°/178°
TERMINAL	VIDEO In	—	—
	Audio In (L/R)	—	—
	HDMI In	HDMI Type A Connector x 1	
	Component/RGB In	—	—
	Audio In (L/R)	—	—
	DVI-D In	DVI-D 24-pin x 1	
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with PC In)	
	PC In	Mini D-Sub 15-pin x1 (Female)	
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)	
	Audio Out (L/R)	Pin Jack x 1 set	
GENERAL	DIGITAL LINK	RJ45 x 1 (Shared with LAN)	
	Serial In	D-Sub 9-pin x 1, RS-232C Compatible	
	LAN	RJ45 x 1 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)	
	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
	Power Consumption	370 W	270 W
	Power Off Condition	Approx. 0.3 W	Approx. 0.3 W
	Stand-by Condition	Approx. 0.5 W	Approx. 0.5 W
	Outdoor Mode On	Approx. 41 W	Approx. 41 W
	Network Stand-by Mode	Approx. 16 W	Approx. 16 W
	Dimensions (W x H x D)	1,162 x 706 x 216 mm	1,162 x 706 x 216 mm
OPTIONS	Carton Size (W x H x D)	1,308 x 851 x 323 mm	1,308 x 851 x 323 mm
	Bezel Width	32 mm	32 mm
	Weight	Approx. 47.0 kg	Approx. 47.0 kg
	Gross Weight	Approx. 55.0 kg	Approx. 55.0 kg
	Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm
	Built-in Speakers	—	—
	Direct Sunlight Capability	Yes (Built-in Air Cooling System)	Yes (Built-in Air Cooling System)
	Dust and Water Resistant Level	IP55	IP55
	Operating Environment*1	Temperature: -20 °C*2 to 50 °C / Humidity: 20 % to 80 % (Non Condensation)	Temperature: -20 °C*2 to 50 °C / Humidity: 20 % to 80 % (Non Condensation)
	Storage Environment	Temperature: -20 °C to 60 °C / Humidity: 20 % to 80 % (Non Condensation)	Temperature: -20 °C to 60 °C / Humidity: 20 % to 80 % (Non Condensation)
OPTIONS	Replacement Air Filter	TY-AF60STD	TY-AF60STD
	Digital Interface Box	ET-YFB100G	ET-YFB100G
	Early Warning Software	ET-SWA100	ET-SWA100

*1: Don't use in places where the presence of corrosive gases or salt damage area.

*2: When used in Outdoor mode.

Dust and Water Resistance Performance – Ideal for Outdoor Installation

IP level dust and water resistant performance provides tough durability in harsh conditions.

* What is IP?: This denotes the degree of dust and water resistance. IP is an abbreviation of the international standard Ingress Protection. (IEC60529)

Dust Resistance		Water Resistance	
Level of protection from dust particles		Level of water resistance	
Level	Degree of Protection	Level	Degree of Protection
5	Protected against dust limited ingress (no harmful deposit).	5	Protected against water jet.

High-Brightness 2,000-cd/m² Model with Wide-Viewing-Angle IPS Panel and LED Backlight

Images are clear even in brightly lit places. Full 2,000 cd/m²* brightness maintains excellent visibility under direct sunlight. This makes the LFX ideal for installation in drive-through lanes. And because the brightness isn't affected by external light, information such as menu items and prices remain clear and easy to read.



* The LFX60 only. The LFX6N has 1,200 cd/m² of brightness.

Forced Air-Cooling System Helps to Prevent Blackouts and Dew Condensation

Outside air is brought into the cabinet to produce an airflow between the front glass and the LCD panel. This suppresses internal temperature rises and prevents blackouts when the display is installed outdoors. It also serves as a countermeasure against condensation.



Direct sunlight raises the LCD panel temperature and causes blackouts.

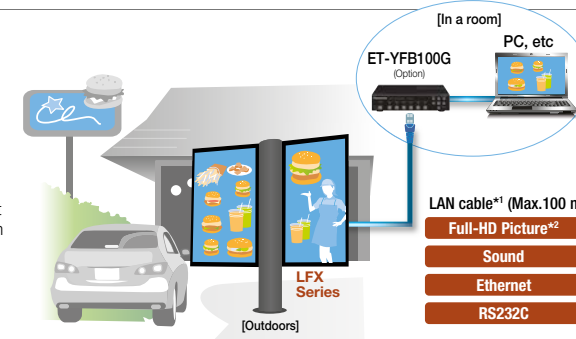
The LFX operates stably even outdoors under direct sunlight.

DIGITAL LINK for Transmission of Video, Audio and Control Signals for up to 100 m with a Single LAN Cable

Only a single LAN cable*1 is required to transmit uncompressed HD video, audio and control signals for a distance of up to 100 m. This enables indoor installation of the PC and other devices connected to the display at an outdoor location in order to protect the PC and devices from rain and dust. Since only one cable needs to be connected between the PC and panel, cable routing work is quick and easy. Because a control signal can also be sent simultaneously, it is easy to upgrade the system by combining it with the optional ET-YFB100G Digital Interface Box.

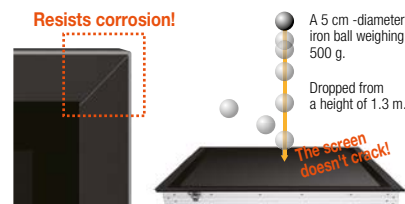
*1: Use an STP cable of CAT5e or higher.

*2: WUXGA (1,920 x 1,200 pixels) compatible.



Aluminum Cabinet and Tempered Glass

The aluminum cabinet strongly resists corrosion. In addition, tempered glass ensures rugged strength against impacts.



Highly Durable Display Resists Temperature Changes and the Summer Sun

Featuring an operating temperature range of -20 °C*1 to 50 °C, performance remains unchanged even in cold and hot climates.

*1: When used in Outdoor mode.

Supporting Stable Operation — Early Warning Software

Early Warning Software monitors the status of display connected to an intranet and informs you when an abnormality is detected or predicted, and when there are symptoms of trouble. The minimizes display downtime to support more stable operation.

LFB Series



Multi Touch Screen

Model no.		TH-80LFB70	TH-65LFB70	TH-50LFB70
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	80-inch (2,032 mm)/16:9	65-inch (1,638 mm)/16:9	50-inch (1,257 mm)/16:9
	Panel Type	LCD VA Panel/E-LED	LCD VA Panel/E-LED	LCD VA Panel/E-LED
	Effective Display Area (W x H)	1,771 x 996 mm	1,428 x 803 mm	1,095 x 616 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	350 cd/m ² (Typ)	350 cd/m ² (Typ)	350 cd/m ² (Typ)
	Contrast Ratio	5,000:1	4,000:1	5,000:1
	Response Time	4 ms (G to G)	6.5 ms (G to G)	6.5 ms (G to G)
	Viewing Angle	176°/176°	178°/178°	176°/176°
TOUCH PANEL	Detection Method	Infrared Blocking Detection Method	Infrared Blocking Detection Method	Infrared Blocking Detection Method
	PC Connection Port	USB (3.0 Compliant)	USB (3.0 Compliant)	USB (3.0 Compliant)
TERMINAL	VIDEO In	BNC x 1		BNC x 1
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with Component/RGB In)		Stereo Mini Jack (M3) x 1 (Shared with Component/RGB In)
	HDMI In	HDMI Type A Connector x 2		HDMI Type A Connector x 2
	Component/RGB In	BNC x 1 set		BNC x 1 set
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with VIDEO In)		Stereo Mini Jack (M3) x 1 (Shared with VIDEO In)
	DVI-D In	DVI-D 24-pin x 1		DVI-D 24-pin x 1
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with PC In)		Stereo Mini Jack (M3) x 1 (Shared with PC In)
	PC In	Mini D-Sub 15-pin x1 (Female), Plug & Play (VESA DDC 2B)		Mini D-Sub 15-pin x1 (Female), Plug & Play (VESA DDC 2B)
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)		Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)
	PC Out	Mini D-Sub 15-pin x1		Mini D-Sub 15-pin x1
	USB A	TYPE A USB Connector x 1 (For Memory Viewer)		TYPE A USB Connector x 1 (For Memory Viewer)
	USB B	TYPE B USB Connector x 1 (For Touch Panel)		TYPE B USB Connector x 1 (For Touch Panel)
	Serial	D-Sub 9-pin x 1, RS-232C Compatible		D-Sub 9-pin x 1, RS-232C Compatible
	DIGITAL LINK	RJ45 x 1 (Shared with LAN)		RJ45 x 1 (Shared with LAN)
GENERAL	LAN	RJ45 x 1, 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)		RJ45 x 1, 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)
	Function Slot	SLOT2.0 x 1		SLOT2.0 x 1
	Power Requirements	220-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz
	Power Consumption	350 W	215 W	140 W
	Power Off Consumption	Approx. 0.3 W	Approx. 0.3 W	Approx. 0.3 W
	Stand-by Condition	Approx. 0.5 W	Approx. 0.5 W	Approx. 0.5 W
	Dimensions (W x H x D)	1,868 x 1,093 x 104 mm	1,517 x 892 x 106 mm	1,185 x 705 x 103 mm
	Carton Size (W x H x D)	2,075 x 1,319 x 404 mm (TH-80LFB70W) 2,069 x 1,315 x 400 mm (TH-80LFB70E)	1,720 x 1,027 x 286 mm (TH-65LFB70W) 1,714 x 1,023 x 282 mm (TH-65LFB70E)	1,387 x 839 x 286 mm (TH-50LFB70W) 1,385 x 836 x 284 mm (TH-50LFB70E)
	Bezel Width	43 mm	39 mm	39 mm
	Weight	Approx. 84.0 kg	Approx. 58.0 kg	Approx. 33.0 kg
	Gross Weight	Approx. 103.0 kg	Approx. 68.0 kg	Approx. 40.0 kg
	Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	684 x 300 mm	400 x 300 mm
	Protective Glass Thickness	Approx. 4 mm/Anti-Glare	Approx. 3.2 mm/Anti-Glare	Approx. 2.5 mm/Anti-Glare
	Built-in Speaker	20 W [10 W + 10 W]	20 W [10 W + 10 W]	20 W [10 W + 10 W]
OPTIONS	External Speaker	8 Ω, 20 W [10 W + 10 W] (10 % THD)	8 Ω, 20 W [10 W + 10 W] (10 % THD)	8 Ω, 20 W [10 W + 10 W] (10 % THD)
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non Condensation)		Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non Condensation)
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non Condensation)		Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non Condensation)
	Pedestal	TY-ST65P20	TY-ST65P20	TY-ST42P50
	Wall-hanging Bracket	TY-WK70PV50 (Vertical)	—	TY-WK42PV20 (Vertical)
	Wall-hanging Bracket (Angled)	—	TY-WK65PR20 (Vertical/Angled)	TY-WK42PR20 (Angled)
	Ceiling-hanging Bracket	—	—	TY-CE42PS20
	Mobile Stand	TY-ST80LF70	TY-ST65PB2	TY-ST50PB2/TY-ST58PF20
	Easy Wireless Stick	ET-UW100	ET-UW100	ET-UW100
	Digital Interface Box	ET-YFB100G	ET-YFB100G	ET-YFB100G
	Early Warning Software	ET-SWA100	ET-SWA100	ET-SWA100
FUNCTION BOARD	HD-SDI Terminal Board	TY-FB9HD	TY-FB9HD	TY-FB9HD
	HD-SDI Terminal Board with Audio	TY-FB10HD	TY-FB10HD	TY-FB10HD
	Dual Link HD-SDI Terminal Board	TY-FB11DHD	TY-FB11DHD	TY-FB11DHD
	Dual HDMI Terminal Board	TY-FB10HMD	TY-FB10HMD	TY-FB10HMD
	BNC Dual Video Terminal Board	TY-FB9BD	TY-FB9BD	TY-FB9BD
	DVI-D Terminal Board	TY-FB11DD	TY-FB11DD	TY-FB11DD
	Slot in PC	PLUGTHA54*	PLUGTHA54*	PLUGTHA54*

* Europe only.



Model no.		TH-80LFC70	TH-65LFC70	TH-50LFC70
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	80-inch (2,032 mm)/ 16:9	65-inch (1,638 mm)/16:9	50-inch (1,257 mm)/16:9
	Panel Type	LCD VA Panel/E-LED	LCD VA Panel/E-LED	LCD VA Panel/E-LED
	Effective Display Area (W x H)	1,771 x 996 mm	1,428 x 803 mm	1,095 x 616 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
	Brightness	350 cd/m ² (Typ)	350 cd/m ² (Typ)	350 cd/m ² (Typ)
	Contrast Ratio	5,000:1	4,000:1	5,000:1
	Response Time	4 ms (G to G)	6.5 ms (G to G)	6.5 ms (G to G)
TERMINAL	Viewing Angle	176°/176°	178°/178°	176°/176°
	VIDEO In	BNC x 1		BNC x 1
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with Component/RGB In)		Stereo Mini Jack (M3) x 1 (Shared with Component/RGB In)
	HDMI In	HDMI Type A Connector x 2		HDMI Type A Connector x 2
	Component/RGB In	BNC x 1 set		BNC x 1 set
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with VIDEO In)		Stereo Mini Jack (M3) x 1 (Shared with VIDEO In)
	DVI-D In	DVI-D 24-pin x 1		DVI-D 24-pin x 1
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with PC In)		Stereo Mini Jack (M3) x 1 (Shared with PC In)
	PC In	Mini D-Sub 15-pin x1 (Female), Plug & Play (VESA DDC 2B)		Mini D-Sub 15-pin x1 (Female), Plug & Play (VESA DDC 2B)
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)		Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)
	PC Out	Mini D-Sub 15-pin x 1		Mini D-Sub 15-pin x1
	USB	TYPE A USB Connector x 1 (For Memory Viewer)		TYPE A USB Connector x 1 (For Memory Viewer)
	Serial	D-Sub 9-pin x 1, RS-232C Compatible		D-Sub 9-pin x 1, RS-232C Compatible
	DIGITAL LINK	RJ45 x 1 (Shared with LAN)		RJ45 x 1 (Shared with LAN)
	LAN	RJ45 x 1, 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)		RJ45 x 1, 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)
	Function Slot	SLOT2.0 x 1		SLOT2.0 x 1
GENERAL	Power Requirements	220-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz
	Power Consumption	345 W	210 W	135 W
	Power off Consumption	Approx. 0.3 W	Approx. 0.3 W	Approx. 0.3 W
	Stand-by Condition	Approx. 0.5 W	Approx. 0.5 W	Approx. 0.5 W
	Dimensions (W x H x D)	1,868 x 1,093 x 99 mm	1,484 x 859 x 97 mm	1,151 x 672 x 94 mm
	Carton Size	2,075 x 1,319 x 404 mm (TH-80LFC70W) 2,069 x 1,315 x 400 mm (TH-80LFC70E)	1,720 x 1,027 x 286 mm (TH-65LFC70W) 1,714 x 1,023 x 282 mm (TH-65LFC70E)	1,387 x 839 x 286 mm (TH-50LFC70W) 1,385 x 836 x 284 mm (TH-50LFC70E)
	Bezel Width	45 mm	25 mm	25 mm
	Weight	Approx. 83 kg	Approx. 55 kg	Approx. 30 kg
	Gross Weight	Approx. 101 kg	Approx. 64 kg	Approx. 38 kg
	Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	684 x 300 mm	400 x 300 mm
	Protective Glass Thickness	Approx. 4 mm/Anti-Glare	Approx. 3.2 mm/Anti-Glare	Approx. 2.5 mm/Anti-Glare
	Built-in Speaker	20 W [10 W + 10 W]	20 W [10 W + 10 W]	20 W [10 W + 10 W]
	External Speaker	8 Ω, 20 W [10 W + 10 W] (10 % THD)	8 Ω, 20 W [10 W + 10 W] (10 % THD)	8 Ω, 20 W [10 W + 10 W] (10 % THD)
OPTIONS	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non Condensation)		Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non Condensation)
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non Condensation)		Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non Condensation)
	Pedestal	TY-ST65P20	TY-ST65P20	TY-ST42P50
	Wall-hanging Bracket	TY-WK70PV50 (Vertical)	—	TY-WK42PV20 (Vertical)
	Wall-hanging Bracket (Angled)	—	TY-WK65PR20 (Vertical/Angled)	TY-WK42PR20 (Angled)
	Ceiling-hanging Bracket	—	—	TY-CE42PS20
	Floor Stand	—	—	—
FUNCTION BOARD	Mobile Stand	TY-ST80LF70	TY-ST65PB2	TY-ST50PB2/TY-ST58PF20
	Easy Wireless Stick	ET-UW100	—	ET-UW100
	Digital Interface Box	ET-YFB100G	ET-YFB100G	ET-YFB100G
	Early Warning Software	ET-SWA100	ET-SWA100	ET-SWA100
	HD-SDI Terminal Board	TY-FB9HD	TY-FB9HD	TY-FB9HD
	HD-SDI Terminal Board with Audio	TY-FB10HD	TY-FB10HD	TY-FB10HD
	Dual Link HD-SDI Terminal Board	TY-FB11DHD	TY-FB11DHD	TY-FB11DHD
	Dual HDMI Terminal Board	TY-FB10HMD	TY-FB10HMD	TY-FB10HMD
	BNC Dual Video Terminal Board	TY-FB9BD	TY-FB9BD	TY-FB9BD
	DVI-D Terminal Board	TY-FB11DD	TY-FB11DD	TY-FB11DD
	Slot in PC	PLUGTHA54*	PLUGTHA54*	PLUGTHA54*

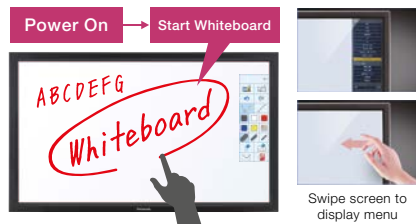
* Europe only.

Multi Touch Screen LED Displays LFB70 Series/ Network LED Displays LFC70 Series

Quick-Start Whiteboard

LFB70

Start working on the built-in whiteboard instantly—just switch on the display. You can draw straight or freehand lines, and change line thickness, color, and background using the tool palette. To switch input sources, picture settings, and volume, swipe the edge of the screen to display the main menu—no remote control necessary.



Swipe screen to display menu

Easy and Intuitive Operation

LFB70

Four-point multi-touch functionality makes it easy to resize and move graphics around on your documents. The included Stylus Pen and Eraser accessory is a convenient way to write large amounts of text. So simple to use, even for children and less technically experienced presenters.

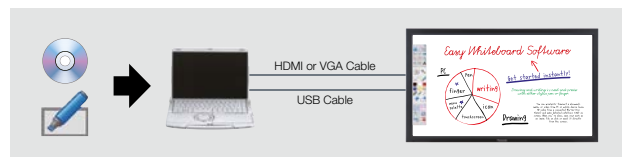


Whiteboard Software for PC Extends Your Capabilities

LFB70

Whiteboard Software for PC offers extra functionality for power users. As well as adding extra presentation tools and a PowerPoint Link mode to easily import and modify PowerPoint files, the application's six-point touch interface lets up to six people write and draw simultaneously. Other highlights include:

- Three modes of operation*3 (Whiteboard Function, PowerPoint(R) Link Mode, and Desktop Operation)
- More presentation tools*3 (Loupe, Spotlight, Shade, Fade-out Marker)
- Screen video recorder function*3
- Image capture
- Image import (JPEG, PNG, BMP)
- Start-up from external memory*3



Write and Draw On Media from External Devices

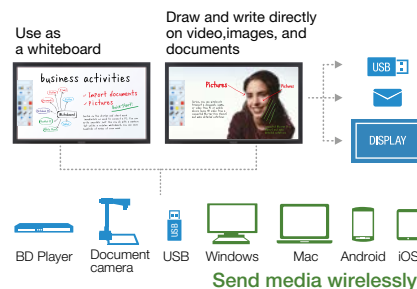
LFB70

You can write on almost any media you like, including video and still images. Swipe to bring up the main menu, display content from your external device, and start making notes. These dynamic multi-media capabilities make it easy for teams to share information and contribute ideas.

Easy Save and Share

LFB70

Produce up to 100 pages of work on the whiteboard and save them to the built-in memory*1 or USB thumb drive as JPEG image files. You can also copy data stored on internal memory to a USB drive, or send your pages as image files directly from the screen via email*2. Keeping everyone in the loop is simple.



Send media wirelessly



(Windows Version)

Wireless and USB Connectivity

LFB70 LFC70

Miracast™ for Instant Wireless Sharing

Transmit documents, Full HD video, images, and audio from compatible Android devices and Windows PCs to the big screen with Miracast™ — the latest wireless standard that doesn't require software or complicated setup. With no cables, fast connection, and high bandwidth, Miracast™ makes it easy for everyone to contribute.



Instant Playback of Content via USB

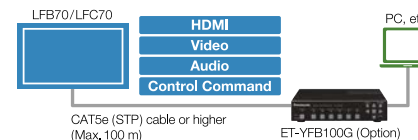
Playing back Full HD video, still images, and digital documents from USB storage devices couldn't be easier. Just insert the memory device into the display's USB port and commence your presentation without having to first connect a PC. The USB Memory Viewer app enables image (JPEG, BMP) and video (WMV, AVI, MOV, MP4, MPG) selection from handy thumbnail previews.

System Flexibility

LFB70 LFC70

DIGITAL LINK

DIGITAL LINK transmits uncompressed Full HD video, audio, and control commands through a single CAT5e cable for up to 100 m (328 ft). Connect all your source devices to an optional Digital Interface Box (ET-YFB100G) and use just one cable to link your display. This simplifies installation and saves on cabling costs.



Other Features

- Expand and Customize with SLOT2.0
- PuLink™ Compliant
- Picture-in-Picture Capability
- Built-in Speaker
- Toughened Non-Reflective Glass

*1: Built-in memory ON/OFF is included. When OFF is selected, only one whiteboard page can be created. *2: Can be sent as JPEG format only. *3: For Windows® only. *4: Supported by Windows® XP/Windows Vista/Windows® 7/Windows® 8, and Macintosh (Mac OS X v10.6/v10.7/v10.8). *5: Windows® 7 and Windows Vista® users must log in using the Administrator's account. When a Windows® 7-equipped computer is first used, the sound driver may require adjustment. *6: The ET-UW100 cannot transfer audio files. Only the 16-Window Index Style can be used in Multi-Live Mode. The ET-UW100 is available in the following countries and regions as of October 2013: North America, England, Germany, France, Spain, Italy, Belgium, Austria, Sweden, Norway, Denmark, Switzerland, Holland, Finland, Greece, Australia, and Japan. A firmware update is necessary before using the ET-UW100. For more information, please visit our Professional Display global website at <http://panasonic.net/prodisplays/>. *7: Supports 1080/60p signal only.

Note: Images on screen are simulated. Use of this product shall be in compliance with all relevant and applicable copyright protection laws. Data or work entered by the user into the Product's external inputs (including but not limited to motion pictures and photography) shall be the creation of the user (excluding quoting) or shall be authorized for use by the author(s) of the data or work. Panasonic has no right or authority to grant the product user any license, rights, and titles to use, modify, copy, or distribute, etc., any data or work not created by the user or used with express permission of the data or work's author(s).

Easily Connect a Second Display

Use a VGA cable to mirror*7 content on a second display or projector — even the notes added to documents, images, or video during your presentation. This dual-display capability makes both the LFB70 and LFC70 Series ideal for use in larger venues.

Supported Inputs: HDMI/DVI/PC/Memory Viewer/Whiteboard



LFE Series



Model no.	TH-65LFE7	TH-50LFE7	TH-42LFE7
DISPLAY			
Screen Size (Diagonal)/Aspect Ratio	65-inch (1,639 mm)/16:9	50-inch (1,270 mm)/16:9	42-inch (1,065 mm)/16:9
Panel Type	LCD VA Panel/E-LED	LCD VA Panel/E-LED	LCD IPS Panel/D-LED
Effective Display Area (W x H)	1,429 x 804 mm	1,096 x 616 mm	928 x 522 mm
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Brightness	350 cd/m ² (Typ)	350 cd/m ² (Typ)	350 cd/m ² (Typ)
Contrast Ratio	5,000:1	5,000:1	1,200:1
Response Time	6.5 ms (G to G)	9.5 ms (G to G)	8.0 ms (G to G)
Viewing Angle	176°/176°	176°/176°	178°/178°
Panel Surface Treatment	Anti-glare treatment	Anti-glare treatment	Anti-glare treatment
TERMINAL			
VIDEO In	—	—	—
Audio In (L/R)	—	—	—
HDMI In	HDMI Type A Connector x 2	HDMI Type A Connector x 2	HDMI Type A Connector x 2
Component/RGB In	—	—	—
Audio In (L/R)	—	—	—
DVI-D In	DVI-D 24-pin x 1	DVI-D 24-pin x 1	DVI-D 24-pin x 1
Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with PC In)	Stereo Mini Jack (M3) x 1 (Shared with PC In)	Stereo Mini Jack (M3) x 1 (Shared with PC In)
DVI-D Out	—	—	—
PC In	Mini D-Sub 15-pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)
Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)
Audio Out (L/R)	Stereo Mini Jack (M3) x 1 set	Stereo Mini Jack (M3) x 1 set	Stereo Mini Jack (M3) x 1 set
5V Charge Out	5 V 500 mA (Max)	5 V 500 mA (Max)	5 V 500 mA (Max)
Serial In	D-Sub 9-pin x 1, RS-232C Compatible	D-Sub 9-pin x 1, RS-232C Compatible	D-Sub 9-pin x 1, RS-232C Compatible
LAN	RJ45 x 1 10BASE-T/100BASE-TX, Compatible with PLink™	RJ45 x 1 10BASE-T/100BASE-TX, Compatible with PLink™	RJ45 x 1 10BASE-T/100BASE-TX, Compatible with PLink™
IR In/Out	Stereo Mini Jack (M3) x 1 / x 1	Stereo Mini Jack (M3) x 1 / x 1	Stereo Mini Jack (M3) x 1 / x 1
GENERAL			
Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
Power Consumption	135 W	95 W	95 W
Power Off Condition	0.4 W	Approx. 0.4 W	Approx. 0.4 W
Stand-by Condition	0.5 W	Approx. 0.5 W	Approx. 0.5 W
Dimensions (W x H x D)	1,458 x 840 x 52 mm	1,126 x 652 x 53 mm	963 x 566 x 77 mm
Carton Size (W x H x D)	1,576 x 948 x 227 mm	1,463 x 749 x 129 mm	1,275 x 672 x 144 mm
Bezel Width	10.8 mm (Left/Right/Top), 17.9 mm (Bottom)	11.9 mm (Left/Right/Top), 17.7 mm (Bottom)	12.5 mm (Left/Right/Top), 22.1 mm (Bottom)
Weight	Approx. 33.5 kg	Approx. 14.5 kg	Approx. 9.5 kg
Gross Weight	Approx. 41.0 kg	Approx. 19.0 kg	Approx. 13.0 kg
Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	—	VESA Compliant 200 x 200 mm
Built-in Speakers	20 W [10 W + 10 W] (10 % THD)	20 W [10 W + 10 W] (10 % THD)	20 W [10 W + 10 W] (10 % THD)
Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non Condensation)	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non Condensation)
Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non Condensation)	Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non Condensation)	Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non Condensation)
OPTIONS			
Pedestal	TY-ST65PE7	TY-ST42PE7	TY-ST42PE7
Early Warning Software	ET-SWA100	ET-SWA100	ET-SWA100

Standard

LED backlight provide light weight, a thin profile, and low power consumption

Detailed Full-HD picture quality and the beautiful images in large spaces. The use of an LED back light allows signage to be used for long periods with excellent visibility and low power consumption, to help reduce running costs.



Text and intricate patterns are crisply displayed.

Provides a Step Up in Size for Replacing a 60-inch Model

The narrow bezel does away with all unnecessary decorations. The bezel width is slimmer than those of previous model,* and the 65-inch model is about the same size as our previous 60-inch models. An existing cabinet can be used as is, while increasing the overall screen size.



* Compared with the previous 60-inch model.

Standard-equipped input/output terminals for signage use

The input/output terminals (HDMI, DVI-D, PC-IN) and control terminals (RS232C, LAN) needed for signage use are provided as standard equipment.

Built-in Speaker

The speaker is built into the rear of the display. There is no need for external speakers when using content that has a soundtrack.



		4K		Indoor								Video Wall				Outdoor	Multi Touch Screen			Network			Standard				
		TH-98LQ70	TH-84LQ70	TH-80LF50	TH-70LF50	TH-55LF60	TH-47LF60	TH-42LF60	TH-55LF6	TH-47LF6		TH-42LF6	TH-55LFV70	TH-55LFV50	TH-55LFV5	TH-47LFV5	TH-47LFX60	TH-47LFX6N	TH-80LFB70	TH-65LFB70	TH-50LFB70	TH-80LFC70	TH-65LFC70	TH-50LFC70	TH-65LFE7	TH-50LFE7	TH-42LFE7
Size (inch)		98	84	80	70	55	47	42	55	47	42		55	55	55	47	47	47	80	65	50	80	65	50	65	50	42
SPECIFICATION	Touch Operation	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	Yes	Yes	Yes	—	—	—	—	—	—
	IP Rating	—	—	—	—	—	—	—	—	—	—		—	—	—	—	IP55	IP55	—	—	—	—	—	—	—	—	—
	24/7 Operation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—	—
	DIGITAL LINK	Yes	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—
	Anti-Glare	T.B.D.	T.B.D.	—	—	—	—	—	—	—	—		Yes	—	Yes	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Multi-res. Quad Display*	Yes	Yes	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INSTALLATION	Outdoor Installation	—	—	—	—	—	—	—	—	—	—		—	—	—	—	Yes	Yes	—	—	—	—	—	—	—	—	—
	Video Wall	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	Yes	Yes	Yes
	Portrait	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Pre Calibration	—	—	—	—	—	—	—	—	—	—		Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
	Narrow Bezel	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	Yes	Yes	Yes	
	Fan-less Design	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		—	—	—	—	—	—	—	—	—	—	—	Yes	Yes	Yes	
	SLOT (Up to 4K)	Yes	Yes	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	SLOT2.0	—	—	Yes	Yes	—	—	—	—	—	—		—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	
	Ceiling-Suspension	Yes	Yes	Yes	Yes	Yes	—	—	Yes	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Monitor Out	—	—	—	—	—	—	—	—	—	—		Yes	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	
FUNCTION	Built-in Whiteboard	—	—	—	—	—	—	—	—	—	—		T.B.D.	—	—	—	—	—	Yes	Yes	Yes	—	—	—	—	—	—
	Memory Viewer	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
	Wireless Function	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
	Miracast™	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
	LAN Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Input Search	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Digital Zoom	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Seam Hides Video Off Mode	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	Yes	Yes	Yes	
	Daisy-Chain Connection	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—	
	IR In/Out (infrared signal) Connection	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	Yes	Yes	Yes	
	Power on Screen Delay	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Display ID Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	PC/DVI-D Power Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	HDMI Power Management	Yes	Yes	—	—	—	—	—	—	—	—		Yes	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audio Input Select	—	—	—	—	—	—	—	—	—	—		T.B.D.	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
	Picture in Picture	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
	Brightness Sensor	T.B.D.	T.B.D.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Power Save Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Input/Button Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Remocon User Level	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		T.B.D.	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Weekly Command Timer	Yes	Yes	—	—	—	—	—	—	—	—		T.B.D.	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
	Screen Saver	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Outdoor Mode	—	—	—	—	—	—	—	—	—	—		—	—	—	—	Yes	Yes	—	—	—	—	—	—	—	—	—
	Early Warning Compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Super High Quality 4K Up-Scaling	Yes	Yes	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

* Up to Full HD.