Panasonic BUSINESS

Professional DISPLAYS Line-up Catalog Jan 2016

TRAVEL INFOGRAPHICS TRAVEL IN

Panasonic

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The information of the Panasonic projectors and professional displays from your iOS/Android devices.

Mobile App - panasonic.net/prodisplays/support/mobile_app/



For the latest information about Panasonic Professional Displays, please visit:

Professional Display Global Website – panasonic.net/prodisplays YouTube – www.youtube.com/PanasonicProDisplay Facebook – www.facebook.com/panasonicprojector

All information included here is valid as of January 2016.

CT16-U01PF Printed in Japan.





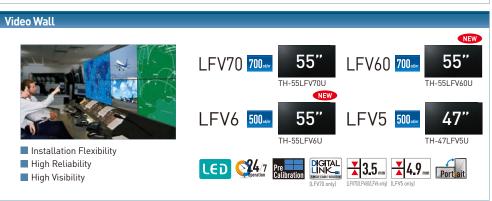
Worldwide Paralympic Partner



Panasonic Professional Displays Lineup

























Model no.	TH-98LQ70U	TH-84LQ70U	TH-98LQ70LU	TH-84LQ70LU
Screen Size (Diagonal)/Aspect Ratio	97.5-inch (2476.9 mm)/16:9	84.0-inch (2134.6 mm)/16:9	97.5-inch (2476.9 mm)/16:9	84.0-inch (2134.6 mm)/16:9
Panel Type	LCD IPS Panel/D-LED	LCD IPS Panel/E-LED	LCD IPS Panel/D-LED	LCD IPS Panel/E-LED
Effective Display Area (W x H) Number of Pixels (H x V)	85.0" x 47.8" (2159 x 1214 mm)	73.3" x 41.3" (1860 x 1047 mm)	85.0" x 47.8" (2159 x 1214 mm)	73.3" x 41.3" (1860 x 1047 mm)
Number of Pixels (H x V)	3840 x 2160 pixels	3840 x 2160 pixels	3840 x 2160 pixels	3840 x 2160 pixels
> Brightness (Typ)	500 cd/m ²	500 cd/m ²	500 cd/m ²	500 cd/m ²
Contrast Ratio	1300 :1	1400 : 1	1300 :1	1400 : 1
Contrast Ratio Dynamic Contrast Ratio Response Time	500000 :1	500000 :1	500000 :1	500000 :1
Response Time	8 ms (G to G)	12 ms (G to G)	8 ms (G to G)	12 ms (G to G)
Viewing Angle (Horizontal/Vertical)	178° / 178°	178° / 178°	178° / 178°	178° / 178°
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	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	DisplayPort x	1 (DP1.2a)*1
DVI-D In	DVI-D 24	4-pin x 1	DVI-D 2	1-pin x 1
☐ Audio In (L/R)	Stereo Mini Jack (M3) x	1 set (Shared with PC In)	Stereo Mini Jack (M3) x	I set (Shared with PC In)
PC In Audio In (L/R) Audio Out	Mini D-sub 15-p	in x 1 (Female)*2	Mini D-sub 15-p	in x 1 (Female)*2
Audio In (L/R)	Stereo Mini Jack (M3) x 1	set (Shared with DVI-D In)	Stereo Mini Jack (M3) x 1	set (Shared with DVI-D In)
Audio Out	Stereo Mini S	lack (M3) x 1	Stereo Mini S	ack (M3) x 1
Serial In	D-sub 9-pin x 1, R	S-232C Compatible	D-sub 9-pin x 1 , R	S-232C Compatible
LAN	RJ45 x 1 100BASE-TX, Compatible wit	h PJLink™ (Shared with DIGITAL LINK)	RJ45 x 1 100BASE-TX, Compatible wit	h PJLink™ (Shared with DIGITAL LINK)
DIGITAL LINK	RJ45 x 1 (Sha	red with LAN)	RJ45 x 1 (Sha	red with LAN)
Function Slot	SLOT NX x	: 2 (Vacant)	SLOT NX x	2 (Vacant)
Power Requirements	110-127 V A	C, 50/60 Hz	110-127 V A	C, 50/60 Hz
Power Consumption	650 W	560 W	650 W	560 W
Power Off Condition	0.3 W	0.3 W	0.3 W	0.3 W
Stand-by Condition	0.5 W	0.5 W	0.5 W	0.5 W
Dimensions (W x H x D)	87.9" x 50.7" x 4.8" (2233 x 1288 x 122 mm)	76.7" x 44.9" x 3.9" (1949 x 1141 x 99 mm)	87.9" x 50.7" x 4.5" (2233 x 1288 x 113 mm)	76.7" x 44.9" x 3.7" (1949 x 1141 x 92 mm)
Carton Size (W x H x D)	94.8" x 59.9" x 18.2" (2406 x 1520 x 460 mm)	84.9" x 53.6" x 15.9" (2156 x 1361 x 404 mm)	94.8" x 59.9" x 18.2" (2406 x 1520 x 460 mm)	84.9" x 53.6" x 15.9" (2156 x 1361 x 404 mm)
Weight	Approx. 299.9 lbs. (136.0 kg)	Approx. 238.1 lbs. (108.0 kg)	Approx. 231.5 lbs. (105.0 kg)	Approx. 185.2 lbs. (84.0 kg)
Gross Weight	Approx. 355.0 lbs. (161.0 kg)	Approx. 286.6 lbs. (130.0 kg)	Approx. 286.6 lbs. (130.0 kg)	Approx. 233.7 lbs. (106.0 kg)
Protective Glass	Yes	Yes	_	_
Built-in Speaker	20W [10W + 10	OW] (10% THD)	20W [10W + 10	OW] (10% THD)
Orientation	Landscap	pe/Portrait	Landscap	e/Portrait
Tilting Angle	10 degrees with landscape setting a	and 5 degrees with portrait setting*3	10 degrees with landscape setting a	and 5 degrees with portrait setting*3
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C) / Humidity: 20 °C		Temperature: 32 °F to 104 °F (0 °C to 40 °C) / Humidity: 20 °	% to 80 % (Non condensation) / Altitude 0-7874 ft (2400 m)*4
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C)	/ Humidity: 20 % to 80 % (Non condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C)	/ Humidity: 20 % to 80 % (Non condensation)
Operating Time*5	24 h	/day	24 h	/day
Pedestal	TY-ST103PF9	TY-ST85P12	TY-ST103PF9	TY-ST85P12
Wall-hanging Bracket	TY-WK103PV9	TY-WK85PV12	TY-WK103PV9	TY-WK85PV12
Ceiling-hanging Bracket	TY-CE103PS10*6	TY-CE85PS12*6	TY-CE103PS10*6	TY-CE85PS12*6
Mobile Stand	_	TY-ST85PB1	_	TY-ST85PB1
Ceiling-hanging Bracket Mobile Stand 3G-SDI Terminal Board	TY-TBN03G *Require	e 2 boards for 4K/60p	TY-TBN03G *Require	2 boards for 4K/60p
Digital Interface Box	ET-YF		ET-YFI	
DIGITAL LINK Switcher	ET-YF	B200G	ET-YFI	3200G

^{*1:} HDCP supported, Embedded auido supported *2: RGB/YPbPr switchable *3: Please contact your sales representative with regard to the tilt angle before installation.
*4: Environmental temperature to use this unit at high altitudes (4593 ft (1400 m) and higher and below 7874 ft (2400 m) above sea level): 32 °F to 95 °F (0°C to 35 °C) When using the unit where it is 4593 ft (1400 m) and higher and below 7874 ft (2400 m) above sea level, make sure [High altitude mode] is set to [ON].

· Store Signage

- A wide range of professional 4K required applications -









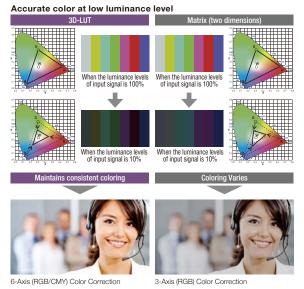




^{&#}x27;5: In case of long time, the moving image is recommended to be displayed. If you display a still picture for an extended period, the image retention might remain on the screen. However, image retention can gradually disappear by displaying a moving images. '6: Tilt angle limited to 10 degree maximum.

High Color Reproduction (3D-LUT & 6-Axis Color Correction)

The color space on LCD displays tends to narrow when the luminance level drops, and it's often accompanied by color phase shifts. 3D-LUT (Look Up Table) Color Correction on the LQ70 Series has a look up table for each luminance level. Six Axis Coordinate Correction applies image processing to balance the six axes of the three primary colors (CMY). This keeps the intermediate shades of extremely fine colors vibrant and lifelike.

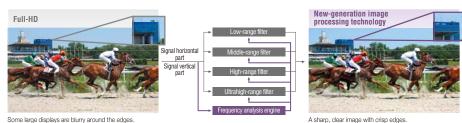


* Images on screen are simulated.

Non-4K Sources Are Also Beautifully Compensated

Panasonic's new-generation image processing technology (Detail Clarity Processor3*) also reproduces non-4K image content, such as Full-HD images and PC signals, with high picture quality. In addition, it compensates motion images for smooth, non-blurry display, which was difficult with conventional models.

* Optimizes the frequency and level of the input signal in horizontal and vertical directions to produce beautifully sharp, clear images.



Designed with Rugged Durability for Professional Use

The LQ70 Series has protective glass with 3.5J* impact resistance on the front of the display. With its strong resistance to external impacts, this rugged design allows safe installation in places where many people walk by, such as train stations, airports, and shopping malls. The special frame construction also resists twisting to boost reliability during installation. Ideal for rental applications, where the panel is frequently transported and installed.

frequently transported and installed.

* This value is from a Panasonic test. It does not imply a guaranteed value.

06





^{*} Images on screen are simulated

Portrait Installation Capability

When the LQ70 Series is installed vertically, it can display a person in almost life-size dimensions. It is ideal for digital signage use because it faithfully reproduces the textures and colours of a model's clothing and accessories. It helps to maintain a high-quality brand image. Vertical installation also has no effect on the lifetime of the panel.



Capable of 4-Input Multi Display with No Processor Required

The LQ70 Series features a 4-Input Multi Display function. The image can be switched from a full-screen display to a 4-Input Multi Display with a single press of a remote control button. Ideal for checking details in various applications, such as videoconferences, digital signage, and surveillance monitoring.

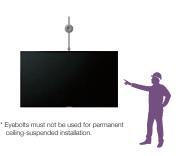


- * Some restrictions exist for input signals and display splitting.
- * 3G-SDI input and 4K image are not supported by the 4-Input Multi Display function.

Designed for Easy Transportation and Installation

By mounting eyebolts to the installation holes of the LQ70 Series and attaching hooks to the eyebolts, the unit can be easily moved and installed using a hoisting device such as a crane. The tough frame resists twisting and distortion, thus reducing the burden on the installation staff.

* The unit must be installed or uninstalled only by a specially trained installer.



SLOT NX Versatile 4K Input

The new SLOT NX makes it possible to change the interface to match the application. If the optional 3G-SDI Terminal Board is mounted, the LQ70 Series can be connected with SDI. This feature is convenient for use in broadcasting stations, for rental use and for long-distance connection. The LQ70 Series is expandable and will accommodate 4K input in the future.



- * All images shown are simulated.
- * SLOT NX is not compatible with SLOT 2.0.
- * Require 2 boards for 4K/60p



Feature video
4K UHD LCD Display LQ70 Series



07

4K Special Website









Model no.	TH-55AF1U	TH-49AF1U	TH-42AF1U
Screen Size (Diagonal)/Aspect Ratio	54.6-inch (1387 mm)/16:9	48.5-inch (1232 mm)/16:9	41.9-inch (1064 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)	47.6" x 26.7" (1209 x 680 mm)	42.2" x 23.7" (1073 x 604 mm)	36.5" x 20.5" (927 x 521 mm)
Number of Pixels (H x V)	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels
Brightness	500 cd/m² (Typ)	500 cd/m² (Typ)	500 cd/m² (Typ)
Contrast Ratio	1300:1	1300:1	1300:1
Dynamic Contrast	50000:1	50000:1	50000:1
Response Time	8 ms (G to G)	8 ms (G to G)	8 ms (G to G)
Viewing Angle	178°/178° (CR≥10)	178°/178° (CR≥10)	178°/178° (CR≥10)
OS STATES		d 4.4.3	Android 4.4.3
CPU		.0 GHz (Quad)	Cortex-A9, 1.0 GHz (Quad)
Memory	-	` '	
		/ ROM 8 GB	RAM 1 GB / ROM 8 GB
VIDEO In		d with Component In)	BNC x 1 set (Shared with Component In)
Audio In (L/R)		Shared with Component In)	Stereo Mini Jack (M3) x 1 (Shared with Component In)
HDMI In	**	Connector x 2	HDMI Type A Connector x 2
Component/RGB In	BNC x 1 set (Sha	red with VIDEO In)	BNC x 1 set (Shared with VIDEO In)
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 2	4-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 2	4-pin x 1	DVI-D 24-pin x 1
PC In		-pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)
Audio In (L/R)		1 (Shared with DVI-D In)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)
Audio Out (L/R)	. ,	Jack (M3) x 1	Stereo Mini Jack (M3) x 1
Serial In/Out		RS-232C Compatible	D-sub 9-pin x 1/x 1, RS-232C Compatible
USB			
	` ' '	5 V/1 A (USB3.0 is not supported)	USB connector (TYPE A) x 1, DC 5 V/1 A (USB3.0 is not support
IR In/Out		ck (M3) x 1 / x 1	Stereo Mini Jack (M3) x 1 / x 1
LAN		BASE-TX/1000BASE-T, Compatible with PJLink™	RJ45 x 1 for Network Connection, 10BASE-T/100BASE-TX/1000BASE-T, Compatible with PJLi
USB USB	,	E A) x 3, DC 5 V/500 mA	USB2.0 connector (TYPE A) x 3, DC 5 V/500 mA
로 Micro-USB	Micro U	JSB x 1	Micro USB x 1
€ microSD card slot	microSD, mi	croSDHC x 1	microSD, microSDHC x 1
S Wireless LAN	IEEE 802	.11a/b/g/n	IEEE 802.11a/b/g/n
Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz
Power Consumption	190 W	175 W	155 W
Power Off Condition	Approx. 0.3 W	Approx. 0.3 W	Approx. 0.3 W
Stand-by Condition		PLATFORM standby] is set to [Off])	Approx. 0.5 W (When [OpenPort PLATFORM standby] is set to [C
		PLATFORM standby] is set to [On])	Approx. 20 W (When [OpenPort PLATFORM standby] is set to [C
Dimensions (W x H x D)	48.4" x 27.6" x 2.8" *(1229 x 699 x 72*mm)	43.1" x 24.6" x 2.8" *(1093 x 623 x 72 * mm)	37.3" x 21.3" x 2.8"* (947 x 541 x 72* mm)
Carton Size (W x H x D)	56.9" x 36.3" x 8.8" (1444 x 922 x 223 mm)	51.5" x 33.4" x 8.0" (1308 x 846 x 203 mm)	44.3" x 29.3" x 8.0" (1123 x 743 x 203 mm)
Bezel Width	` '	` ,	· · ·
	0.25" (6.3 mm)	0.25" (6.3 mm)	0.25" (6.3 mm)
Weight	Approx. 55.2 lbs. (25.0 kg)	Approx. 42.6 lbs. (19.3 kg)	Approx. 34.4 lbs. (15.6 kg)
Gross Weight	Approx. 72.8 lbs. (33.0 kg)	Approx. 57.4 lbs. (26.0 kg)	Approx. 46.3 lbs. (21.0 kg)
Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400x 400 mm)	VESA Compliant 15.8" x 15.8" (400x 400 mm)	VESA Compliant 7.9" x 7.9" (200 x 200 mm)
Built-in Speakers	20 W [10 W + 10 W]	20 W [10 W + 10 W]	20 W [10 W + 10 W]
Orientation	Landscape/Portrait (Angle adjustmen	t 0-45 degrees for both left and right)	Landscape/Portrait (Angle adjustment 0-45 degrees for both left and rig
Tilting Angle*1		with landscape/portrait setting*1 forward/backward tilting installation.)	0-45 degrees forward/backward with landscape/portrait setting* ¹ (Angle adjustment is not possible for forward/backward tilting installati
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 Humidity: 20 % to 80) °C)*2 : 32 °F to 95 °F (0 °C to 35 °C)*3 / % (Non-condensation)	Temperature: 32 °F to 104 °F (0 °C to 40 °C)*2 : 32 °F to 95 °F (0 °C to 35 °C) Humidity: 20 % to 80 % (Non-condensation)
Storage Environment	,	/ Humidity: 20 % to 80 % (Non Condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C) / Humidity: 20 % to 80 % (Non Condensa
Operating Time*4		/day	24 h/day
Pedestal	TY-ST43PE8	TY-ST43PE8	TY-ST43PE8
	11-0140FE0	11-0140FL0	IT-GI40FL0
Digital Interface Box	_	-	_
DIGITAL LINK Switcher			
Early Warning Software*5	ET-SWA100	ET-SWA100	ET-SWA100
Auto Display Adjustment Upgrade Kit	TY-VUK10 (Supports Ver.1.2 or later)	TY-VUK10 (Supports Ver.1.2 or later)	TY-VUK10 (Supports Ver.1.2 or later)

^{*1:} Please contact your sales representative with regard to the tilt angle before installation. *2: for up to 4593 ft (1400 m) altitude



Adaptable and Versatile with Excellent Reliability

Android™- and HTML5-based OpenPort Platform™ Gives Freedom to Customize and Grow



with Digital Signage Apps, Simplifies Everyday Use. The AF1 Series incorporates a high-performance SoC (System on a Chip) with a 1 GHz Quad-Core CPU, 1 GB RAM, 8 GB Storage. All this is supported by an alliance with a leading signage software developer to jointly verify application operation.





The Android robot is reproduced or modified from work created and shared by Google and used according to terms described in the Creative Commons 3.0 Attribution License.

Simple Installation and Easy Operation

A built-in Media Player and onboard Wi-Fi simplify installation and cabling without the need for an external set-top box. Display media and scheduling is easily updated via the Internet. And the Panasonic API* is provided to efficiently control and monitor applications over a network.

* Application Programming Interface



High Brightness, Resolution, And Off-Axis Visibility

The bright 500 cd/m² IPS panel enables excellent off-axis visibility. And the stylish design with narrow 0.25" (6.3 mm) bezel complements beautiful, large-format images. A Preset Optimal Image mode is also available via application to attract customers' attention.

[&]quot;3: for between 4593 ft (1400 m) and 9186 ft (2800 m) altitude. Depending on the temperature or humidity conditions, uneven brightness may be observed.

This is not a malfunction. This unevenness will disappear while applying current continuously. If not, consult the distributor.

^{*4:} 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.

[★] The handle part excluded, the thickness is 2.3" (57 mm).











Indoor

Model no.	TH-80LF50U	TH-70LF50U	TH-55LF80U	TH-49LF80U	TH-42LF80U							
Screen Size (Diagonal)/Aspect Ratio	80.0-inch (2032 mm)/16:9	70.0-inch (1765 mm)/16:9	54.6-inch (1387 mm)/16:9	48.5-inch (1232 mm)/16:9	41.9-inch (1064 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)	69.7" x 39.2" (1771 x 996 mm)	60.5" x 34.0" (1538 x 865 mm)	47.6" x 26.7" (1209 x 680 mm)	42.2" x 23.7" (1073 x 604 mm)	36.5" x 20.5" (927 x 521 mm)							
Number of Pixels (H x V)	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels							
Brightness	700 cd/m² (Typ)	700 cd/m² (Typ)	700 cd/m ² (Typ)	700 cd/m ² (Typ)	700 cd/m ² (Typ)							
Contrast Ratio	5000:1	5000:1	1300:1	1300:1	1300:1							
Dynamic Contrast	_	_	50000:1	50000:1	50000:1							
Response Time	9 ms (G to G)	9 ms (G to G)	8 ms (G to G)	8 ms (G to G)	8 ms (G to G)							
Viewing Angle	176°/176°	176°/176°	178°/178° (CR≥10)	178°/178° (CR≥10)	178°/178° (CR≥10)							
VIDEO In	BNO			BNC x 1 set (Shared with Component /RGB Y/G)	(6.12.10)							
Audio In (L/R)	Pin Jac			tereo Mini Jack (M3) x 1 (Shared with Component	In)							
HDMI In	HDMI Type A			HDMI Type A Connector x 2	,							
Component/RGB In		x 1 set		BNC x 1 set (Shared with Video In)								
Audio In (L/R)		k x 1 set		Stereo Mini Jack (M3) x 1 (Shared with Video In)								
DVI-D In	DVI-D 2			DVI-D 24-pin x 1								
Audio In (L/R)		x 1 (Shared with PC In)		Stereo Mini Jack (M3) x 1 (Shared with PC In)								
DVI-D Out	DVI-D 2			DVI-D 24-pin x 1								
		P.		· ·								
PC In	Mini D-Sub 15-			Mini D-Sub 15-pin x 1 (Female)								
Audio In (L/R)		1 (Shared with DVI-D In)		Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)								
Audio Out (L/R)		k x 1 set		Stereo Mini Jack (M3) x 1								
Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-p	in x 1, RS-232C Compatible		D-sub 9-pin x 1/x 1, RS-232C Compatible								
DIGITAL LINK	-	-		100BASE-TX, Compatible with PJLink™ (Shared	•							
LAN	RJ45 x 1 10BASE-T/100BASE	-TX, Compatible with PJLink™	RJ45 x 1 100E	BASE-TX, Compatible with PJLink™ (Shared with	DIGITAL LINK)							
IR In/Out	-	-		Stereo Mini Jack (M3) x 1 / x 1								
USB	-	-	USB Typ	USB Type A Connector x 1, DC 5V/1A (USB 3.0 is not supported.)								
Function Slot	SLOT											
Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz							
Power Consumption	Approx. 380 W	Approx. 260 W	Approx. 190 W	Approx. 175 W	Approx. 155 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)	72.8" x 42.3" x 3.5" (1848 x 1073 x 89 mm)	63.2" x 36.7" x 3.5" (1604 x 931 x 89 mm)	48.4" x 27.6" x 2.8"* (1229 x 699 x 72* mm)	43.1" x 24.6" x 2.8"*(1093 x 623 x 72*mm)	37.3" x 21.3" x 2.8"*(947 x 541 x 72*n							
Carton Size (W x H x D)	78.6" x 46.9" x 13.8" (1995 x 1191 x 351 mm)	69.0" x 41.3" x 13.8" (1752 x 1050 x 351 mm)	56.9" x 36.3" x 8.8" (1444 x 922 x 223 mm)	51.5" x 33.4" x 8.0" (1308 x 846 x 203 mm)	44.3" x 29.3" x 8.0" (1123 x 743 x 203 n							
Bezel Width	1.4" (36 mm)	1.2" (30 mm)	0.25" (6.3 mm)	0.25" (6.3 mm)	0.25" (6.3 mm)							
Weight	Approx. 132.3 lbs. (60.0 kg)	Approx. 103.6 lbs. (47.0 kg)	Approx. 54.5 lbs. (24.7 kg)	Approx. 41.9 lbs. (19.0 kg)	Approx. 33.7 lbs. (15.3 kg)							
Gross Weight	Approx. 156.5 lbs. (71.0 kg)	Approx. 123.5 lbs. (56.0 kg)	Approx. 70.6 lbs. (32.0 kg)	Approx. 57.4 lbs. (26.0 kg)	Approx. 44.1 lbs. (20.0 kg)							
Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA compliant 7.9" x 7.9" (200 x 200 n							
Built-in Speakers	_	_	20 W [10 W + 10 W]	20 W [10 W + 10 W]	20 W [10 W + 10 W]							
Orientation	Landscap	pe/Portrait	Landscape/	Portrait (Angle adjustment 0-45 degrees for both le	eft and right)							
Tilting Angle	0-20 degrees forward v	vith landscape setting*1	0-45 degrees forward/backward with landsc	ape/portrait setting*1 (Angle adjustment is not pos	sible for forward/backward tilting installation							
Operating Environment	Temperature: 32°F to 104°F (0 °C to 40 °C) /	Humidity: 20 % to 80 % (Non Condensation)		40 °C)*3 : 32 °F to 95 °F (0 °C to 35 °C)*4 / Humid								
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C)*	² / Humidity: 20 % to 80 % (Non Condensation)	Temperature: -4 °F to	140 °F (-20 °C to 60 °C) / Humidity: 20 % to 80 9	% (Non-condensation)							
Operating Time*5	24 h		·	24 h/day								
Pedestal	TY-ST65P20	TY-ST58P20	TY-ST43PE8	TY-ST43PE8	TY-ST43PE8							
Wall-hanging Bracket	TY-WK70PV50	TY-WK70PV50	_	_								
Digital Interface Box	_	-	ET-YFB100G	ET-YFB100G	ET-YFB100G							
DIGITAL LINK Switcher	_	_	ET-YFB200G	ET-YFB200G	ET-YFB200G							
Early Warning Software*6	_	_	ET-SWA100	ET-SWA100	ET-SWA100							
Auto Display Adjustment Upgrade Kit	_	_	TY-VUK10 (Supports Ver.1.1 or later)	TY-VUK10 (Supports Ver.1.1 or later)	TY-VUK10 (Supports Ver.1.1 or later)							
Mato Display Adjustificit Opyrade Nit		_	11-VOICTO (Oupports Voi.1.1 Of later)	11 VOICTO (Oupports Voi.1.1 Of later)	11 VOICTO (Oupports Voi.1.1 Of later)							
HD-SDI Terminal Board	TY-FB10HD	TY-FB10HD	_	_	_							

 $^{^{\}star} 1:$ Please contact your sales representative with regard to the tilt angle before installation.

^{*2:} If the temperature is 104 °F to 140 °F (40 °C to 60 °C), please keep in humidity 20 % to 40 %.

^{*3:} for up to 4593 ft (1400 m) altitude

^{*4:} for between 4593 ft (1400 m) and 9186 ft (2800 m) altitude

Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction. This unevenness will disappear while applying current continuously. If not, consult the distributor.

^{*5:} 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.

*6: Suffix of the part number may differ depending on the license type.

 $[\]bigstar$ The handle part excluded, the thickness is 2.3" (57 mm).

LF Series







	Model no.	TH-55LF8U	TH-49LF8U	TH-42LF8U					
	Screen Size (Diagonal)/Aspect Ratio	54.6-inch (1387 mm)/16:9	48.5-inch (1232 mm)/16:9	41.9-inch (1064 mm)/16:9					
_	Panel Type	LCD IPS Panel/E-LED	LCD IPS Panel/E-LED	LCD IPS Panel/E-LED					
븰	Effective Display Area (W x H)	47.6" x 26.7" (1209 x 680 mm)	42.2"x 23.7" (1073 x 604 mm)	36.5" x 20.5" (927 x 521 mm)					
PA	Number of Pixels (H x V)	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels					
>	Brightness	500 cd/m² (Typ)	500 cd/m ² (Typ)	500 cd/m² (Typ)					
7	Contrast Ratio	1300:1	1300:1	1300:1					
SF	Dynamic Contrast	50000:1	50000:1	50000:1					
	Response Time	8 ms (G to G)	8 ms (G to G)	8 ms (G to G)					
	Viewing Angle	178°/178° (CR≥10)	178°/178° (CR≥10)	178°/178° (CR≥10)					
	VIDEO In	BNC x 1 set (Shared with	h Component /RGB Y/G)	BNC x 1 set (Shared with Component /RGB Y/G)					
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with Component In)	Stereo Mini Jack (M3) x 1 (Shared with Component In)					
	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)	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 2	4-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)					
A	DVI-D Out	DVI-D 2	4-pin x 1	DVI-D 24-pin x 1					
Ī	PC In	Mini D-Sub 15-	pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)					
EB	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/x 1,	RS-232C Compatible	D-sub 9-pin x 1/x 1, RS-232C Compatible					
	DIGITAL LINK	-	=	_					
	LAN	RJ45 x 1 10BASE-T/100BASE	-TX, Compatible with PJLink™	RJ45 x 1 10BASE-T/100BASE-TX, Compatible with PJLink™					
	IR In/Out	Stereo Mini Jao	ck (M3) x 1 / x 1	Stereo Mini Jack (M3) x 1 / x 1					
	USB	USB Type A Connector x 1, DC 5	5V/1A (USB 3.0 is not supported.)	USB Type A Connector x 1, DC 5V/1A (USB 3.0 is not supported.)					
	Function Slot	-	_	_					
	Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz					
	Power Consumption	185 W	160 W	145 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)	48.4" x 27.6" x 2.8"* (1229 x 699 x 72* mm)	43.1" x 24.6" x 2.8"* (1093 x 623 x 72* mm)	37.3" x 21.3" x 2.8"* (947 x 541 x 72* mm)					
	Carton Size (W x H x D)	56.9" x 36.3" x 8.8" (1444 x 922 x 223 mm)	51.5" x 33.4" x 8.0" (1308 x 846 x 203 mm)	44.3" x 29.3" x 8.0" (1123 x 743 x 203 mm)					
	Bezel Width	0.25" (6.3 mm)	0.25" (6.3 mm)	0.25" (6.3 mm)					
٦	Weight	Approx. 54.5 lbs. (24.7 kg)	Approx. 41.9 lbs. (19.0 kg)	Approx. 33.7 lbs. (15.3 kg)					
2	Gross Weight	Approx. 70.6 lbs. (32.0 kg)	Approx. 57.4 lbs. (26.0 kg)	Approx. 44.1 lbs. (20.0 kg)					
Ē	Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA Compliant 7.9" x 7.9" (200 x 200 mm)					
99	Built-in Speakers	20 W [10 W + 10 W]	20 W [10 W + 10 W]	20 W [10 W + 10 W]					
	Orientation	Landscape/Portrait (Angle adjustmen	t 0-45 degrees for both left and right)	Landscape/Portrait (Angle adjustment 0-45 degrees for both left and right)					
	Tilting Angle	0-45 degrees forward/backward (Angle adjustment is not possible for		0-45 degrees forward/backward with landscape/portrait setting*1 (Angle adjustment is not possible for forward/backward tilting installation.)					
	Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 Humidity: 20 % to 80		Temperature: 32 °F to 104 °F (0 °C to 40 °C)*2 : 32 °F to 95 °F (0 °C to 35 °C)*3 / Humidity: 20 % to 80 % (Non-condensation)					
	Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C)	/ Humidity: 20 % to 80 % (Non Condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C) / Humidity: 20 % to 80 % (Non Condensation)					
	Operating Time*4	24 h	/day	24 h/day					
	Pedestal	TY-ST43PE8	TY-ST43PE8	TY-ST43PE8					
NS	Digital Interface Box	_	_	-					
0.	DIGITAL LINK Switcher	_	_	_					
PT	Early Warning Software*5	ET-SWA100	ET-SWA100	ET-SWA100					
0	Auto Display Adjustment Upgrade Kit	TY-VUK10 (Supports Ver.1.1 or later)	TY-VUK10 (Supports Ver.1.1 or later)	TY-VUK10 (Supports Ver.1.1 or later)					

^{*1:} Please contact your sales representative with regard to the tilt angle before installation.

★ The handle part is excluded, the thickness is 2.3" (57 mm).

^{*2:} for up to 4593 ft (1400 m) altitude

^{*3:} for between 4593 ft (1400 m) and 9186 ft (2800 m) altitude
Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction. This unevenness will disappear while applying current continuously. If not, consult the distributor.

^{*4:} 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.

^{*5:} Suffix of the part number may differ depending on the license type.

Indoor

Built-in Speaker

Stylish Slim Design

and Light Weight

Easy Display of Images Optimized for the Display Content

Conventional display panels are preset with display modes such as Standard and Dynamic. The LF80/8/AF1 Series comes with an extensive display menu to let you select the most suitable mode for the content to be displayed and the viewing environment. You can select the best



Natural Signage



AF1 LF80 LF8

Standard Displays images with priority Displays images faithful to







Surveillance Displays images with reduced Suitable for PC input. brightness and with priority on gradation.

DICOM* Display images close to the DICOM Part 14 Grayscale Standard

*Although the term "DICOM" is used, this product is not medical equipment. Do not use displayed images for medical purposes such as examination or diagnosis.

High-Performance Image Engine for Flexible Image Adjustment Like Never Before

• 6-segment Color Management

mode for the video source and the place

of display.

Enables adjustment of the color tone, color density and brightness parameters individually for red, green, and blue, as well as the complementary colors of cyan, magenta and yellow.

Color Enhancement

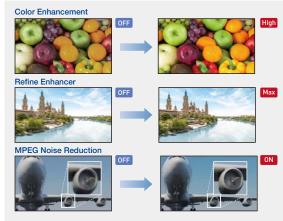
Displays images with enhanced color.

Refine Enhancer

Corrects blurry image contours resulting from resizing, etc., to improve the image resolution.

MPEG Noise Reduction

Noise reduction suppresses the block noise and mosquito noise that are characteristic of digital video signals. This faithfully reproduces the inherent beauty of the image.

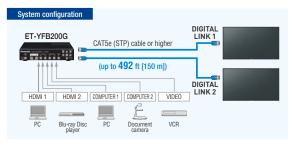


^{*} Images on screen are simulated.

DIGITAL LINK Function Enables Simple Installation and Low System Costs

Using DIGITAL LINK makes it possible to transmit video, audio and control signals over a long distance (up to 492 ft [150 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 When connected with the [Long reach] mode, the maximum transmission distance is 492 ft (150 m). In this case, the unit can receive the signals of up to 1080/60p. A CAT5e (STP) cable or higher is required.



24/7 Operation AF1 LF50 LF80 LF8

transportation facilities.

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

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







AF1 LF80 LF8

* 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.







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.

Fan-less Design AF1 LF50 LF80 LF8

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

Flexible, Vertical Installation

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.



Mura (unevenness) hardly ever appear in Portrait mode.

LF Series

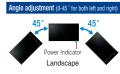
LF50 LF80 LF8

Choose the Installation to Match Your Application

The LF80/8 series is designed for use in either portrait or horizontal orientation with no effect on panel color and lifespan, further reducing TCO. A tilt installation up to 45 degrees forward or backward is also possible. The angle can be adjusted for easy viewing when installed in a high location.

*Angle adjustment is not possible for forward/backward tilting installation. Be sure that the Power Indicator comes to the downside.





AF1 LF80 LF8

Landscape



14 15

LF80











Model no.	TH-55LFV70U	TH-55LFV60U		TH-55LFV6U	TH-47LFV5U
Screen Size (Diagonal)/Aspect Ratio	54.6-inch (1387mm)/16:9	54.6-inch (1387 mm)/16:9		54.6-inch (1387 mm)/16:9	46.9-inch (1192 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)	47.6" x 26.7" (1209 x 680 mm)	47.6" x 26.7" (1209 x 680 mm)		47.6" x 26.7" (1209 x 680 mm)	40.9" x 23.0" (1039 x 584 mm)
lumber of Pixels (H x V)	1920 x 1080 pixels	1920 x 1080 pixels		1920 x 1080 pixels	1920 x 1080 pixels
Brightness	700 cd/m ²	700 cd/m ²		500 cd/m ² (Typ)	500 cd/m ² (Typ)
Contrast Ratio	1200:1	1400:1		1400:1	1400:1
Response Time	12 ms (G to G)	12 ms (G to G)		12 ms (G to G)	12 ms (G to G)
Ovnamic Contrast Ratio	500000:1	500000:1		500000:1	500000:1
liewing Angle	178°/178° (CR≥10)	178°/178° (CR≥10)		178°/178° (CR≥10)	178°/178° (CR≥10)
Panel Surface Treatment	Anti-glare treatment (Haze 44%)	Anti-Reflection		Anti-Glare Treatment (Haze 10 %)	Anti-Glare Treatment (Haze 10 %)
/IDEO In	BNC x 1 (Shared with Component In)	BNC x 1 (Shared with Component In)		BNC x 1	BNC x 1
Audio In (L/R)	Pin Jack x 1 set (Shared with Component In)	Stereo Mini-Jack (M3) x 1 (Shared with Component/RGB In)		Stereo Mini-Jack (M3) x 1 (Shared with Component/RGB In)	Pin Jack x 1 set (Shared with Component In)
HDMI In	HDMI Type A Connector x 1	HDMI Type A Connector x 2		HDMI Type A Connector x 2	HDMI Type A Connector x 1
Component/RGB In	BNC x 1 set	BNC x 1 (Shared with VIDEO In)		BNC x 1 (Shared with VIDEO In)	BNC x 1 set
Audio In (L/R)	Pin Jack x 1 set (Shared with VIDEO In)	Stereo Mini-Jack (M3) x 1 (Shared with VIDEO In)		Stereo Mini-Jack (M3) x 1 (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)
		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-D Out	-	DVI-D 24-pin x 1		DVI-D 24-pin x 1	
DVI-I Out		_		_	DVI-I 29-pin x 1
PC In	Mini D-sub 15-pin x 1 (Female)	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)
DIGITAL LINK In/DIGITAL LINK Out	RJ45 x 1/RJ45 x 1	-/-		-/-	-/-
JSB	USB Type A Connector (DC 5 V/0.5 A) x 1 (Memory Viewer Only, USB 3.0 is not supported.)	USB Type A Connector (DC 5 V/1 A) x 1 (USB 3.0 is not supported.)		USB Type A Connector (DC 5 V/1 A) x 1 (USB 3.0 is not supported.)	_
Audio Out (L/R)	Pin Jack x 1 set	Stereo Mini-Jack (M3) x 1		Stereo Mini-Jack (M3) x 1	Pin Jack x 1 set
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		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 Compatibl
IR Transmitter In/Out	Stereo Mini-Jack (M3) x 1 / Stereo Mini-Jack (M3) x 1	Stereo Mini-Jack (M3) x 1 / Stereo Mini-Jack (M3) x 1		Stereo Mini-Jack (M3) x 1 / Stereo Mini-Jack (M3) x 1	Stereo Mini-Jack (M3) x 1 / Stereo Mini-Jack (M3) x 1
LAN	RJ45 x 1 (Shared with DIGITAL LINK In)	RJ45 x 1 (10BASE-T/100BASE-TX, Compatible with PJLink™)		RJ45 x 1 (10BASE-T/100BASE-TX, Compatible with PJLink™)	RJ45 x 1 (Web Browser Control Only)
Power Requirements	110-127 V AC, 50/60 Hz	110-127 V AC, 50/60 Hz		110-127 V AC, 50/60 Hz	110-127 V AC, 50/60 Hz
Power Consumption	330 W	300 W		220 W	160 W
Stand-by Condition	Approx. 0.5 W	Approx. 0.5 W		Approx. 0.5 W	Approx. 0.5 W
Dimensions (W x H x D)	47.8" x 26.9" x 3.7" (1213 x 684 x 95 mm)	47.8" x 26.9" x 3.7" (1213 x 684 x 95 mm)		47.8" x 26.9" x 3.7" (1213 x 684 x 95 mm)	41.2" x 23.3" x 4.3" (1045 x 590 x 109 mm)
Carton Size (W x H x D)	61.1" X 37.8" X 17.7" (1551 X 961 X 450 mm)	60.8" x 38.3" x 11.9" (1544 x 973 x 301 mm)		60.8" x 38.3" x 11.9" (1544 x 973 x 301 mm)	54.8" x 37.4" x 17.6" (1390 x 950 x 445 mm)
Bezel Width	L/T: 0.088" (2.25 mm), R / B: 0.049" (1.25 mm)			L/T: 0.088" (2.25 mm), R / B: 0.049" (1.25 mm)	L/T: 0.12" (3.2 mm), R / B: 0.07" (1.7 mm)
Bezel to Bezel	0.14" (3.5 mm) (Multi Screen)	0.14" (3.5 mm) (Multi Screen)		0.14" (3.5 mm) (Multi Screen)	0.19" (4.9 mm) (Multi Screen)
Veight	Approx. 66.1 lbs. (30.0 kg)	Approx. 66.1 lbs. (30.0 kg)		Approx. 66.1 lbs. (30.0 kg)	Approx. 55.1 lbs. (25.0 kg)
Gross Weight	Approx. 99.2 lbs. (45.0 kg)	Approx. 86.0 lbs. (39.0 kg)		Approx. 86.0 lbs. (39.0 kg)	Approx. 86.0 lbs. (39.0 kg)
Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA Compliant 15.8" x 15.8" (400 x 400 mm)		VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA Compliant 15.8" x 15.8" (400 x 400 mm)
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)	8 Ω, 20 W [10 W + 10 W] (10% THD)
Orientation*1	Landscape/Portrait	Landscape/Portrait		Landscape/Portrait	Landscape/Portrait
ilting Angle*1	Vertical Only	Vertical Only		Vertical Only	Vertical Only
0 0	,	-	_	•	*
perating Environment	Temperature: 32°F to 104°F (0°C to 40°C)*2 / Humidity: 10 % to 90 % (Non Condensation)	Temperature: 32°F to 104°F (0°C to 40°C)*3 / 32°F to 96°F (0°C to 35°C)*4 / Humidity: 10 % to 90 % (Non-Condensation)	11	emperature: 32°F to 104°F (0°C to 40°C)*3 / 32°F to 95°F (0°C to 35°C)*4 / Humidity: 10 % to 90 % (Non-Condensation)	Temperature: 32°F to 104°F (0°C to 40°C)*2 / Humidity: 10 % to 90 % (Non Condensation)
Storage Environment		/ Humidity: 10 % to 90 % (Non Condensation)		Temperature: -4°F to 140°F (-20°C to 60°C)	/ Humidity: 10 % to 90 % (Non Condensation)
Operating Time*5	24 h/day	24 h/day		24 h/day	24 h/day
Remote Control Kit	_	-			TY-RM50VW
Cover Frame Kit	TY-CF55VW50	TY-CF55VW50		TY-CF55VW50	TY-CF47VW5
Installation Mount	TY-VK55LV1	TY-VK55LV1		TY-VK55LV1	TY-VK47LV1
Early Warning Software*6	ET-SWA100	ET-SWA100		ET-SWA100	_
Auto Display Adjustment Upgrade Kit	TY-VUK10	TY-VUK10 (Supports Ver.1.1 or later)		TY-VUK10 (Supports Ver.1.1 or later)	TY-VUK10

^{*1:} Please contact your sales representative with regard to the tilt angle before installation.

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Installation video





^{*2:} For up to 6562 ft (2000 m) altitude. *3: For up to 4593 ft (1400 m) altitude. *4: For between 4593 ft (1400 m) and 9186 ft (2800 m) altitude.

^{*5:} 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.
*6: Suffix of the part number may differ depending on the license type.

Ultra Narrow Bezel with 0.14" (3.5 mm)* Thinness

LFV70 LFV60 LFV6

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

Note: Bezel-to-hezel distance means the combined top and bottom (or left and right) bezel width of adjacent displays in multi-screen configuration. The gap between displays is not included.

*The TH-47LFV5 is 0.19" (4.9 mm) wide.

TH-55LFV70 Diamond Rings 0.14



Optimized Image Modes

Conventional display panels usually include basic display mode presets such as Standard and Dynamic. The LFV60/6 Series, however, features an extensive display menu that allows you to very easily choose from a wide selection of display modes to suit different content, video sources, and lighting environments to achieve optimal results.

* DICOM simulation only. Do not use for actual medical examinations or diagnosis







Natural signage







Surveillance

Multi-Screen Video Synchronization

LFV60/6 Series incorporates a new video playback synchronization function for vertically adjacent displays in multi-screen configuration. It assures more natural video playback compared to displays with unsynchronized timing.

Frame Control

Adjusts timing or images to reproduce enlarged video more naturally.

Reverse Scan

Reverses direction of image scanning to smoothly play enlarged video on multiple screens.





High-Performance Imaging Engine

Color and image quality can be fine-tuned and customized to assure seamless uniformity across all displays in multi-screen configuration.



Images on screen are simulated.

Color matching function

Corrects any unevenness in color between multiple screens. R (red), G (green), and B (blue) along with intermediate colors (cyan, magenta, and yellow) are corrected individually on each display.

Color enhancement

Displays images with enhanced color intensity.

Refine enhancer

Corrects blurry image contours that result from resizing to improve resolution.

Gradation smoother

Extracts and eliminates noise components from input video signals for noise-free image reproduction.

Multi-Screen Imaging Syncing via USB and Changing Content via LAN

The LFV70/60/6 can be quickly adapted for digital signage—just connect USB memory devices to inputs on each display in 2 x 2 multi-screen configuration for automatically synchronized 4K (4 x 1080p) images. No external devices or processors are required. This function also serves as a backup in case the primary video source fails. By using Multi Monitoring & Control Software*1, it's possible to easily replace content stored on USB via LAN*2. perfect in situations where the display is difficult to access.

- *1 For more information about Multi Monitoring & Control Software, please visit: http://panasonic.net/prodisplays/download/software/index.html
- *2 Replacing content stored on USB memory device via LAN is available on LFV60/6 Series displays only.

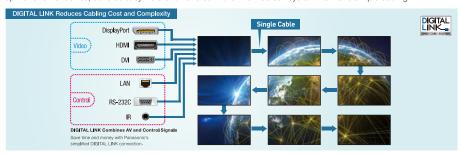


Note: Connection example for LEV60/6 Series shown

LFV70 LFV60

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

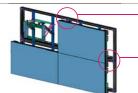
The terminal board for the LFV70 Series is equipped with a DIGITAL LINK output terminal. Video, audio and control signals are combined into one DIGITAL LINK signal and can be transmitted by single cable daisy chain connection. This enables not only a multi-screen system to be configured using only displays 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.



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.



The rigid frame is connected so there is no need for positioning adjustment.

LFV70 LFV60 LFV6

Automatic adjustment by surface alignment magnets suppresses surface shifting.

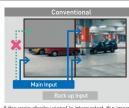
*For 55-inch TY-VK55LV1 For 47-inch TY-VK47LV1

LFV70 LFV60 LFV6

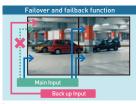
Failover and Failback Functions Support Emergency Situations

The LFV70/60/6 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 centres.

* LFV70 Series only.



If the main display signal is interrupted, the image



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 Manager Software and Auto Display Adjustment Upgrade Kit

LFV5 LFV70 LFV60 ★Supports Ver.1.1 or late

Panasonic's free Video Wall Manager software can be used with LFV Series displays. With this software, you can calibrate display colour using a colour sensor (optional), adjust display settings, and control and manage data via PC. If you upgrade this software with an optional TY-VUK10 Auto Camera Adjustment Kit, you can adjust brightness and colour among multiple displays automatically using a compatible camera (Nikon D5200/D5300/D5500)*.

* Available only with normal zoom lens; AF-S DX NIKKOR 18-55 mm f/3.5-5.6G VR, AF-S DX NIKKOR 18-140 mm f/3.5-5.6G ED VR With LFV70 and TY-VUK10 connected



Auto Display Adjustment Upgrade Kit: http://panasonic.net/prodisplays/products/ty-vuk10/index.html

LFX Series





	Model no.	TH-47LFX60U	TH-47LFX6NU					
	Screen Size (Diagonal)/Aspect Ratio	46.9-inch (1192 mm)/16:9	46.9-inch (1192 mm)/16:9					
	Panel Type	LCD IPS Panel/D-LED	LCD IPS Panel/D-LED					
븰	Effective Display Area (W x H)	40.9" x 23.0" (1039 x 584 mm)	40.9" x 23.0" (1039 x 584 mm)					
DISPLAY PANEL	Number of Pixels (H x V)	1920 x 1080 pixels	1920 x 1080 pixels					
>	Brightness	2000 cd/m ² (Typ)	1200 cd/m ² (Typ)					
Ľ	Contrast Ratio	1300:1	1300:1					
SF	Dynamic Contrast	500000:1	500000:1					
	Response Time	10 ms (G to G)	10 ms (G to G)					
	Viewing Angle	178°/178°	178°/178°					
	VIDEO In	-	_					
	Audio In (L/R)	-	_					
	HDMI In	HDMI Type A	Connector x 1					
	Component/RGB In	-	_					
	Audio In (L/R)	-	_					
N N	DVI-D In	DVI-D 2	4-pin x 1					
TERMINAL	Audio In (L/R)	Stereo Mini Jack (M3)	x 1 (Shared with PC In)					
E	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 Jacl	xx1 set					
	DIGITAL LINK	RJ45 x 1 (Sha	ared with LAN)					
	Serial In	D-Sub 9-pin x 1, R	S-232C Compatible					
	LAN	RJ45 x 1 100BASE-TX, Compatible wit	h PJLink™ (Shared with DIGITAL LINK)					
	Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 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)	45.8" x 27.8" x 8.5" (1162 x 706 x 216 mm)	45.8" x 27.8" x 8.5" (1162 x 706 x 216 mm)					
	Carton Size (W x H x D)	51.5" x 33.5" x 12.7" (1308 x 851 x 323 mm)	51.5" x 33.5" x 12.7" (1308 x 851 x 323 mm)					
GENERAL	Weight	Approx. 103.0 lbs. (47.0 kg)	Approx. 103.0 lbs. (47.0 kg)					
当	Gross Weight	Approx. 121.0 lbs. (55.0 kg)	Approx. 121.0 lbs. (55.0 kg)					
냺	Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	VESA Compliant 15.8" x 15.8" (400 x 400 mm)					
	Built-in Speakers	-	_					
	Direct Sunlight Capability	Yes (Built-in Air (Cooling System)					
	Dust and Water Resistant Level	IP55 Ed	quivalent					
	Orientation	Landscap	pe/Portrait					
	Tilting Angle	0-20 degrees forward with landscape and portrait se	etting / 0-20 degrees backward with portrait setting*1					
	Operating Environment*2	Temperature: -4 °F*3 to 122 °F (-20 °C*3 to 50 °	C) / Humidity: 20 % to 80 % (Non Condensation)					
	Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C)	/ Humidity: 20 % to 80 % (Non Condensation)					
	Operating Time*4	24 h	/day					
S	Replacement Air Filter	TY-AF60STD	TY-AF60STD					
Ñ	Digital Interface Box	ET-YFB100G	ET-YFB100G					
OPTIONS	DIGITAL LINK Switcher	ET-YFB200G	ET-YFB200G					
0	Early Warning Software*5	ET-SWA100	ET-SWA100					

^{*1:} Please contact your sales representative with regard to the tilt angle before installation. *2: Don't use in places where the presence of corrosive gases or salt damage area. *3: When used in Outdoor mode. *4: 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. *5: Suffix of the part number may differ depending on the license type.

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

High-Brightness 2000-cd/m² Model with Wide-Viewing-Angle IPS Panel and LED Backlight

Images are clear even in brightly lit places. Full 2000 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.

* TH-47LFX60 only.

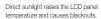
Forced Air-Cooling System Helps to Prevent Blackouts and Dew Condensation

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.









The LFX operates stably even outdoors under direct sunlight.

Highly Durable Display Resists Temperature Changes and the Summer Sun

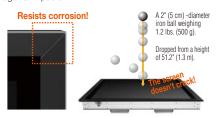
Featuring an operating temperature range of -20°C*1 to 50°C (-4 °F*1 to 122 °F), performance remains unchanged even in cold and hot climates.

*1: When used in Outdoor mode.

Aluminum Cabinet and Tempered Glass

Outdoor

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



High Reliability Enables Continuous 24-Hour Operation

The use of a highly durable panel and electronic components allows continuous 24-hour operation, ideal for installation in 24/7 stores, drive-thrus, public places, etc.

Supporting Stable Operation — Early Warning Software (ET-SWA100)

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.

Feature video



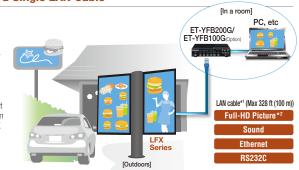




DIGITAL LINK for Transmission of Video, Audio and Control Signals for up to 328 ft (100m) with a Single LAN Cable

Only a single LAN cable*1 is required to transmit uncompressed HD video, audio and control signals for a distance of up to 328 ft (100m). 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 DIGITAL LINK Switcher (ET-YFB200G)/Digital Interface Box (ET-YFB100G).

- *1: Use an STP cable of CAT5e or higher.
- *2: WUXGA (1920 × 1200 pixels) compatible



LFB Series







	<u></u>		
Model no.	TH-80LFB70U	TH-65LFB70U	TH-50LFB70U
Screen Size (Diagonal)/Aspect Ratio	80.0-inch (2032 mm)/16:9	64.5-inch (1638 mm)/16:9	49.5-inch (1257 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)	69.7" x 39.2" (1771 x 996 mm)	56.2" x 31.6" (1428 x 803 mm)	43.1" x 24.3" (1095 x 616 mm)
Number of Pixels (H x V)	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels
A Brightness	350 cd/m ² (Typ)	350 cd/m ² (Typ)	350 cd/m² (Typ)
Contrast Ratio	5000:1	4000:1	5000:1
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°
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)		
VIDEO In	BNC		BNC x 1
Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Sha		Stereo Mini Jack (M3) x 1 (Shared with Component/RGB In)
HDMI In		Connector x 2	HDMI Type A Connector x 2
Component/RGB In	BNC x		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-pir	n (Digital) x 1	DVI-D 24-pin (Digital) x 1
	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	,	Mini D-Sub 15-pin x1
USB A	TYPE A USB Connector		TYPE A USB Connector × 1 (For Memory Viewer)
USB B	TYPE B USB Connecto		TYPE B USB Connector × 1 (For Touch Panel)
Serial	D-Sub 9-pin x 1 (male) for extern		D-Sub 9-pin x 1 (male) for external control, RS-232C Compatible
DIGITAL LINK	RJ45 x 1 (Sha		RJ45 x 1 (Shared with LAN)
LAN	,	•	RJ45 x 1, 100BASE-TX, Compatible with PJLink™ (Shared with DIGITAL LIN
Function Slot	RJ45 x 1, 100BASE-TX, Compatible wit		
	SLOT2		SLOT2.0 x 1
Power Requirements	110-127 V AC, 50/60 Hz	110-127 V AC, 50/60 Hz	110-127 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)	73.5" x 43.0" x 4.1" (1868 x 1093 x 104 mm)	59.7" x 35.1" x 4.2"(1517 x 892 x 106 mm)	46.7" x 27.8" x 4.1" (1185 x 705 x 103 mm)
Carton Size (W x H x D)	81.7" x 52.0" x 16.0" (2075 x 1319 x 404 mm)	67.8" x 40.5" x 11.3" (1720 x 1027 x 286 mm)	54.6" x 33.1" x 11.3" (1387 x 839 x 286 mm)
Weight	Approx. 185.2 lbs. (84.0 kg)	Approx. 127.9 lbs. (58.0 kg)	Approx. 72.8 lbs. (33.0 kg)
Gross Weight	Approx. 227.0 lbs. (103.0 kg)	Approx. 150.0 lbs. (68.0 kg)	Approx. 88.2 lbs. (40.0 kg)
Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400 m)	26.9" x 11.8" (684 x 300 mm)	15.8" x 11.8" (400 x 300 mm)
Protective Glass Thickness	Approx. 0.16" (4 mm)/Anti-Glare	Approx. 0.13" (3.2 mm)/Anti-Glare	Approx. 0.1" (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)
Orientation	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait
Tilting Angle	0-20 degrees with landscape setting*1	Vertical only*1	0-20 degrees with landscape setting*1
Operating Environment		Humidity: 20 % to 80 % (Non Condensation)	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non Condensat
Storage Environment), Humidity: 20 % to 80 % (Non Condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 80 % (Non Condensate
Operating Time*2	18 h	•	18 h/day
. 0		· ·	· · · · · · · · · · · · · · · · · · ·
Pedestal	TY-ST65P20	TY-ST65P20	TY-ST42P50
Wall-hanging Bracket	TY-WK70PV50 (Vertical)	TY-WK65PR20 (Vertical)	TY-WK42PV20 (Vertical)/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
DIGITAL LINK Switcher	ET-YFB200G	ET-YFB200G	ET-YFB200G
Early Warning Software*3	ET-SWA100	ET-SWA100	ET-SWA100
	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
L DVI-D Terminal board	וז-רמווטט	וז-רטווטט	ייטוומז-וו

*1: Please contact your sales representable with regard to the tilt angle before installation. *2: 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.

*3: Suffix of the part number may differ depending on the license type.

Feature videos





Built-in Whiteboard Function





Whiteboard Software Ver.5 for PC





Introduction of Panasonic Wireless Solution





Panasonic Wireless Projector for iOS v3.3.0





Panasonic Wireless Projector for Android v2.4.0









Model no.	TH-80LFC70U	TH-65LFC70U	TH-50LFC70U
Screen Size (Diagonal)/Aspect Ratio	80.0-inch (2032 mm)/ 16:9	64.5-inch (1638 mm)/16:9	49.5-inch (1257 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)	69.7" x 39.2" (1771 x 996 mm)	56.2" x 31.6" (1428 x 803 mm)	43.1" x 24.3" (1095 x 616 mm)
Number of Pixels (H x V)	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels
Brightness	350 cd/m² (Typ)	350 cd/m² (Typ)	350 cd/m² (Typ)
Contrast Ratio	5000:1	4000:1	5000:1
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°
VIDEO In	BNC		BNC x 1
Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Sha		Stereo Mini Jack (M3) x 1 (Shared with Component/RGB In)
HDMI In	. , ,	Connector x 2	HDMI Type A Connector x 2
Component/RGB In	31		BNC x 1 set
	BNC >		
Audio In (L/R) DVI-D In	Stereo Mini Jack (M3) x	,	Stereo Mini Jack (M3) x 1 (Shared with VIDEO In)
	DVI-D 24-pii		DVI-D 24-pin (Digital) x 1
Audio In (L/R)	Stereo Mini Jack (M3)		Stereo Mini Jack (M3) x 1 (Shared with PC In)
PC In	Mini D-Sub 15-pin x1 (Female	<u> </u>	Mini D-Sub 15-pin x1 (Female), Plug & Play (VESA DDC 2B)
Audio In (L/R)	Stereo Mini Jack (M3) x		Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)
PC Out	Mini D-Sub		Mini D-Sub 15-pin x1
USB	TYPE A USB Connector		TYPE A USB Connector × 1 (For Memory Viewer)
Serial	D-Sub 9-pin x 1 (male) for extern	nal control, RS-232C Compatible	D-Sub 9-pin x 1 (male) for external control, RS-232C Compatible
DIGITAL LINK	RJ45 x 1 (Sha	ared with LAN)	RJ45 x 1 (Shared with LAN)
LAN	RJ45 x 1, 100BASE-TX, Compatible wi	th PJLink™ (Shared with DIGITAL LINK)	RJ45 x 1, 100BASE-TX, Compatible with PJLink™ (Shared with DIGITAL LINK
Function Slot	SLOT2	2.0 x 1	SLOT2.0 x 1
Power Requirements	110-127 V AC, 50/60 Hz	110-127 V AC, 50/60 Hz	110-127 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)	73.5" x 43.0" x 3.9" (1868 x 1093 x 99 mm)	58.4" x 33.8" x 3.8" (1484 x 859 x 97 mm)	45.3" x 26.5" x 3.7" (1151 x 672 x 94 mm)
Carton Size	81.7" x 52.0" x 16.0" (2075 x 1319 x 404 mm)	67.8" x 40.5" x 11.3" (1720 x 1027 x 286 mm)	54.7" x 33.1" x 11.3" (1387 x 839 x 286 mm)
Weight	Approx. 183.0 lbs. (83.0 kg)	Approx. 121.3 lbs. (55.0 kg)	Approx. 66.1 lbs. (30.0 kg)
Gross Weight	Approx. 222.7 lbs. (101.0 kg)	Approx. 141.1 lbs. (64.0 kg)	Approx. 83.8 lbs. (38.0 kg)
Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400 mm)	26.9" x 11.8" (684 x 300 mm)	15.8" x 11.8" (400 x 300 mm)
Protective Glass Thickness	Approx. 0.16" (4 mm)/Anti-Glare	Approx. 0.13" (3.2 mm)/Anti-Glare	Approx. 0.1" (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] 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] 8 Ω, 20 W [10 W + 10 W] (10 % THD)
Orientation	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait
	·	·	0-20 degrees with landscape setting*1
Tilting Angle	0-20 degrees with landscape setting*1	Vertical only*1 Humidity: 20 % to 80 % (Non Condensation)	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non Condensation
Operating Environment			
Storage Environment), Humidity: 20 % to 80 % (Non Condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 80 % (Non Condensation
Operating Time*2	18 h	*	18 h/day
Pedestal	TY-ST65P20	TY-ST65P20	TY-ST42P50
Wall-hanging Bracket	TY-WK70PV50 (Vertical)	TY-WK65PR20 (Vertical)	TY-WK42PV20 (Vertical)/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
DIGITAL LINK Switcher	ET-YFB200G	ET-YFB200G	ET-YFB200G
Early Warning Software*3	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

^{1:} Please contact your sales representative with regard to the tilt angle before installation. "2: 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.

Feature video





Introduction of Panasonic Wireless Solution





Panasonic Wireless Projector for iOS v3.3.0





Panasonic Wireless Projector for Android v2.4.0

^{*3:} Suffix of the part number may differ depending on the license type.

Multi Touch Screen LCD Displays LFB70 Series/ **Network LCD Displays LFC70 Series**

Quick-Start Whiteboard

Start working on the built-in whiteboard instantly-just switch on the display. You can draw straight or freehand lines, and change line thickness, colour, 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

LFB70

Easy and Intuitive Operation

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.



Write and Draw On Media from External Devices



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



Produce up to 100 pages*1 of work on the whiteboard and save them to the built-in memory*2 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*3. Keeping everyone in the loop is simple.



Whiteboard Software for PC Extends Your Capabilities

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:

- Color Universal Design presents color information accurately for all people, including those with color-vision defects*4
- Three modes of operation*4 (Whiteboard Function, PowerPoint(R) Link Mode, and Desktop Operation)
- More presentation tools*4 (Loupe, Spotlight, Shade, Fade-out Marker)
- Screen video recorder function*4 Image capture
- Image import (JPEG, PNG, BMP)
- Start-up from external memory*4

HDMI or VGA Cable USB Cable

Whiteboard Software Version 5.1 for Windows Supported by Windows® 7, Windows® 8, and Windows® 8.1 Whiteboard Software Version 1.1 for Macintosh Supported by Mac OS X v10.10.3 Whiteboard Software Version 1.0 for Macintosh Supported by Mac OS X v10.6.8, v10.7.5, v10.8.5, v10.9.1

User-Friendly Drawing Tool

A Color Universal Design function is included in consideration of those with color-vision defects. This practical feature ensures that colors are expressed clearly and accurately. Color Universal Design setting is ON/OFF-selectable (default setting is ON) according to user preference.

What is Color Universal Design (CUD)?

Due to genetic characteristics or other vision disorders, people can perceive colors differently. Some individuals can have difficulty distinguishing between certain color combinations. CUD ensures that color information is accurately expressed for the comfort and convenience of everyone.

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 Memory Viewer app enables image*5 (JPEG, BMP) and video*5 (WMV, AVI, MOV, MP4, MPG) selection from handy thumbnail reviews.

Wireless Apps for Tablet and Smartphone

The Panasonic Wireless Projector for iOS app enables wireless transmission of media from iPad®, iPhone®, and iPod touch® You can also use the Panasonic Wireless Projector for Android app for Android devices, Share PowerPoint® documents and PDF files quickly and conveniently on the big screen. The apps also support simultaneous display from multiple devices using Multi Mode.

4-Window Multi







16-Window Index*

AAA	AAA	AAA	AAA
AAAA		AAAA	
AAA	AAA	AAA	AAA
AAAA	AAA	AAAA	AAA

LFB70 LFC70

System Flexibility

DIGITAL LINK

DIGITAL LINK transmits uncompressed Full HD video, audio, and control commands through a single CAT5e cable for up to 328 ft (100 m).

Connect all your source devices to an optional DIGITAL LINK Switcher (ET-YFB200G)/Digital Interface Box (ET-YFB100G) and use just one cable to link your display. This simplifies installation and saves on cabling costs.



Control Co.





ET-YFB200G/ ET-YFB100G (Optional)

Easily Connect a Second Display

Use a VGA cable to mirror*6 content on a second display or projector - even the notes you might add 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



Other Features

- . Expand and Customize with SLOT2.0
- PJLink™ Compliant
- Picture-in-Picture Capability
- Built-in Speaker
- Toughened Non-Reflective Glass
- *1 With built-in memory setting to ON, When the data size per file is large, the number of available pages may be decreased.
- *2 Built-in memory ON/OFF is included. When OFF is selected, only one whiteboard page can be created.
- *3 Can be sent as JPEG format only. Does not support mail servers using SSL or STARTTLS. *4 For Windows(R) only. *5 Some files may not be viewable even if they are encoded in a supported format. *6 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 licence, 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).









Model no.	TH-65LFE8U	TH-55LFE8U	TH-48LFE8U	TH-43LFE8U					
Screen Size (Diagonal)/Aspect Ratio	64.5-inch (1638 mm)/16:9	54.6-inch (1387 mm)/16:9	47.6-inch (1209 mm)/16:9	42.5-inch (1079 mm)/16:9					
Panel Type	LCD VA Panel/E-LED	LCD IPS Panel/D-LED	LCD VA Panel/D-LED	LCD VA Panel/D-LED					
Effective Display Area (W x H)	56.2" x 31.6" (1428 x 803 mm)	47.6" x 26.7" (1209 x 680 mm)	41.5" x 23.3" (1054 x 592 mm)	37.0" x 20.8" (940 x 529 mm)					
Number of Pixels (H x V)	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels					
Brightness	350 cd/m ²	350 cd/m ²	350 cd/m ²	350 cd/m ²					
Contrast Ratio	5000:1	1200:1	4000:1	3000:1					
Response Time	6.5 ms (G to G)	9 ms (G to G)	8 ms (G to G)	6.5 ms (G to G)					
Viewing Angle	176°/176° (CR≥20)	178°/178° (CR≥20)	178°/178° (CR≥20)	178°/178° (CR≥10)					
VIDEO In	4-pole Mini	Jack (M3) x 1	4-pole Mini J	ack (M3) x 1					
Audio In(L/R)	-	-	-	-					
HDMI In	HDMI TYPE-A Connector x 2*	*VIERA LINK is not supported.	HDMI TYPE-A Connector x 2*	*VIERA LINK is not supported.					
Component/RGB In	-	-	-	-					
Audio In (L/R)	-	-	-	-					
DVI-D In	DVI-D 2	4-pin x 1	DVI-D 24	I-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 x 1	Mini D-sub	15-pin x 1					
Audio In (L/R)	Stereo Mini Jack (M3) x	1 (Shared with DVI-D In)	Stereo Mini Jack (M3) x	x 1 (Shared with DVI-D In)					
PC Out	-	-	-	-					
USB	TYPE A USB Connector 5V DC	/1A (USB 3.0 is not supported.)	TYPE A USB Connector 5V DC	/1A (USB 3.0 is not supported.)					
Serial	D-sub 9-pin x 1, R	S-232C Compatible	D-sub 9-pin x 1, RS	RS-232C Compatible					
DIGITAL LINK		_	-	-					
LAN	RJ45 x 1 10BASE-T/100BASE	-TX, Compatible with PJLink™	RJ45 x 1 10BASE-T/100BASE	00BASE-TX, Compatible with PJLink™					
Function Slot	-	-	-	-					
Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz					
Power Consumption	160 W	170 W	150 W	135 W					
Power off Condition	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					
Dimensions (W x H x D)	57.2" x 32.7" x 2.5" (1451 x 829 x 62 mm)	48.8" x 28.0" x 2.5" (1239 x 712 x 62 mm)	42.6" x 24.6" x 2.5" (1082 x 624 x 62 mm)	38.2" x 22.1" x 2.4" (969 x 560 x 61 mm)					
Carton Size	65.7" x 41.5" x 11.1" (1667 x 1052 x 280 mm)	53.7" x 34.0" x 7.3" (1365 x 864 x 185 mm)	47.0" x 30.5" x 6.8" (1192 x 773 x 171 mm)	42.2" x 27.4" x 6.3" (1070 x 696 x 159 mm)					
Bezel Width	0.3" (7.5 mm) (Left/Right/Top), 0.41" (10.5 mm) (Bottom)	0.5" (12.6 mm) (Left/Right/Top), 0.6" (14.5 mm) (Bottom)	0.5" (11.9 mm) (Left/Right/Top), 0.6" (14.7 mm) (Bottom)	0.5" (11.9 mm) (Left/Right/Top), 0.6" (14.9 mm) (Bottom					
Weight	Approx. 79.9 lbs. (36.2 kg)	Approx. 35.3 lbs. (16.0 kg)	Approx. 25.4 lbs. (11.5 kg)	Approx. 19.2 lbs. (8.7 kg)					
Gross Weight	Approx. 103.7 lbs. (47.0 kg)	Approx. 53.0 lbs. (24.0 kg)	Approx. 37.5 lbs. (17.0 kg)	Approx. 30.9 lbs. (14.0 kg)					
Pitch for Wall-Hanging	VESA Compliant 15.8"	x 15.8" (400 x 400 mm)	VESA Compliant 7.9"	(7.9" (200 x 200 mm)					
Built-in Speaker	20 W [10W + 10) WJ (10% THD)	20 W [10W + 10	W) (10% THD)					
External Speaker	-	- 1	-	- ` `					
Orientation	Landscap	pe/Portrait	Landscap	e/Portrait					
Tilting Angle	0-20 degrees forward v	with landscape setting*3	0-20 degrees forward v	vith landscape setting*3					
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C)*4	/ Humidity: 20 % to 80 % (Non Condensation)*5	Temperature: 32 °F to 104 °F (0 °C to 40 °C)*4	Humidity: 20 % to 80 % (Non Condensation)*5					
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C)*4	· · · · · · · · · · · · · · · · · · ·	Temperature: -4 °F to 140 °F (-20 °C to 60 °C)*4						
Operating Time*6		/day	16 h	, ,					
Pedestal	TY-ST65PE8	TY-ST43PE8	TY-ST43PE8	TY-ST43PE8					
Early Warning Software*7	ET-SWA100	ET-SWA100	ET-SWA100	ET-SWA100					

^{*1:} Due to the terminal block construction, some connection cables and USB memory devices cannot be used. Be sure to check the "CONNECTION TERMINAL" information in the product specification sheet.

For more information about product specifications, please visit: http://panasonic.net/prodisplays/download/specsheets02.html

^{*2:} Please contact your sales representative with regard to the tilt angle before installation.

^{*3:} Environmental temperature to use this unit at high altitudes (4593 ft (1400 m) and higher and below 9186 ft (2800 m) above sea level): 32 °F to 95 °F (0 °C to 35 °C).

*4: Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction. • This unevenness will disappear while applying current continuously. If not, consult the distributor

^{*5:} 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.

^{*6:} Suffix of the part number may differ depending on the license type.

Stylish LFE8 Professional Displays Hit the Cost-to-Performance Sweet Spot

Installs in Just About Any Space

This slim design allows effective space utilization in stores, showrooms and conference rooms. With a depth of less than 2.5" (62 mm), it is also not oppressive when mounted on a wall. Available in four sizes: 65. 55. 48. and 43 inches.



The Slim Bezel Enhances Viewing and Replacement

The bezel is about the same width all around the perimeter. On the 65-inch model, the bezel is only 0.3" (7.5 mm) wide on the top and both sides, and 0.41" (10.5 mm) on the bottom. In addition, when replacing, for example, a 60-inch PDP TV, a larger, 65-inch model can fit into almost the same space.



* Compared with the previous 60-inch model.

Simple Signage Operation with No Set-top Box

The LFE8 Series features a USB media player. Signage operation is possible by simply inputting the desired content via USB, eliminating the need for a set-top box. Both videos and still images can be displayed, so a wide variety of original signage content can be used.

[Notes]

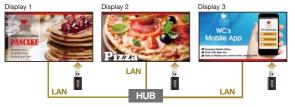
- . The maximum size of file is 2 GB.
- You cannot play the files which are protected by Digital Rights Management (DRM).
- Both an image and the sound choose support form
 Don't support reproduction of only an audio file.

[Applicable device]

- Devices with security feature are not supported.
- Devices not formatted with FAT16 or FAT32 cannot be used.
- The maximum memory size of USB is 32 GB.
- * Limitations exist for USB input. For details, please see the User's Manual.



Multi Media Player



Connecting more than one unit with LAN cable reproduces files in USB memory simultaneously. * Each display needs respective USB memory content.

Choose the Installation to Match Your Application

The LFE8 Series is often used vertically for menu boards and town guide displays, and can be mounted in landscape and portrait. This provides information that is easy to see even in relatively high places inside the store, and increases mounting possibilities.



200

*Tilt 0-20 degrees forward with landscape setting

Multi Monitoring & Control Software Compatible

This free Panasonic original software enables you to monitor and control up to 2048 devices over a LAN network from a single PC. As a monitoring function, the status of multiple devices can be listed in groups, and then detailed information on each devices can be separately displayed. Even more detailed information can be obtained by adding Early Warning Software (paid). As a control function, control commands such as power ON/OFF, input switching and command inputs can be executed, and a schedule function can be used.



*Download Software from Global Website: http://panasonic.net/prodisplays/download/software/index.html

Standalone Operation Saves Labor by Making Content Changes Over a Network

Multi Monitoring & Control Software makes it possible to change the content in the USB memory via LAN after installation. Content can be easily changed even when the display is installed in a high place or suspended from the ceiling. This enables smooth, easy operation.

* Depending on the production period, some products doesn't support this function. Please check Multi Monitoring & Control Software page for more information. http://panasonic.net/prodisplays/download/software/ multi/index.html



Early Warning Software Compatible

Combination with a network that includes Early Warning Software also allows remote monitoring of the panel's usage condition for cost-saving operation.

Early Warning Software: http://panasonic.net/prodisplays/products/ et-swa100/index.html

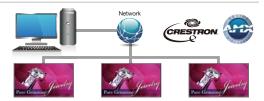
Monitoring display and projectors Warning occurrence Warning occurrence Warning information Internet Warning information E-Mail Transmissions Guidancesponse SNMP manager SNMP manager

A LAN Control function for Internet-based control

This function is highly convenient for operating signage for multiple displays. Control is performed from a PC over a LAN network. General-purpose LAN cabling is used, and the PC allows troubleshooting if an error should occur, for immediate response.

Other Features

- Built-in Speakers are convenient for video conference
- · Increased signal support for a wide variety of content



Arte, France

TH-55LFV70 x 20

Panasonic TH-55LFV70 videowall displays makes headlines at Arte TV NEWS

A reliable solution for secure broadcasting

Perfect immersion in the image means that the video walls have to satisfy many aesthetic criteria (weight, size, sharpness of edges) and give flawless image quality while making broadcasting secure. For Arte the new Panasonic screen, the TH-55LFV70 model, was a natural choice. These 55-inch video wall screens, with an ultra-slim bezel of just 0.14" (3.5 mm) from screen to screen, combine high image quality with extreme reliability.

Although display quality is especially important, continuity of broadcasting is vital because of the direct news output. An automatic switchover mode (Failover/Failback) is vital to avoid any breaks in transmission. With its two DVI-D ports, its HDMI, DisplayPort and USB ports with DIGITAL LINK technology, the video wall can switch automatically to an alternative feed if the main video signal is interrupted.

Why Panasonic?

- Ultra-slim bezel of just 0.14" (3.5 mm)
- High image quality with extreme reliability
- Failover/Failback









Seibu Railway Co., Ltd., Japan

Twenty-four highly durable 4K LCD displays installed for the first time* at a train station in the Tokyo region.

New signage system introduced as a part of renovations timed for the 100th anniversary of the station's completion.

Panasonic professional displays already have protective glass over their surfaces, meaning protective panels are unnecessary and station users can see super-high-definition 4K images without any degradation.

*As of February 24, 2015, survey by Panasonic.

Why Panasonic?

- Durability of protective glass
- Super-high-definition 4K images



70-inch full high-definition LCD displays are mounted on the columns in the passageway leading to the ticket gates, which are slightly thinner.

Aichi Prefectural University, Japan

Constructing a "Learning Common Environment" for Free and Active Discussion with a 330-inch-Equivalent Multi-Screen System for Flexible Image Layout

Creating a New Learning Common Environment to Nurture New-Generation Information System Technicians

In order to cultivate information system technicians who are capable of operating in today's information-oriented society, the Faculty of Information Science at Aichi Prefectural University focuses on the learning and research of advanced information technologies. In line with this goal, the university decided to renew its computer seminar room to construct a learning common environment that would provide students with greater flexibility for discussion.

Why Panasonic?

- The wide viewing angle and anti-glare features of the IPS panel
- The ultra-narrow bezel design
- The high 700 cd/m² brightness



This 36-Screen Multi-Vision System consists of bright, large-screen displays. The large screen completely fills one of the seminar room walls, bringing a lifelike ambience to the large, high-definition, 4K and other images created by the students.



Several related items of information can be displayed simultaneously, enabling presentations and discussions to proceed smoothly.



Part			4	K					Ind	oor						Video	Wall		Outd	loor	Multi '	Touch S	creen	N	etworl	(Stan	dard	
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Digital Zoom	,	Voc	Voc	Voc	Voc	Voc	Voc	Voc	Voc	Voc	Voc	Voc	Voc			Voc	Voc		Voc	Voc							Voc	Voc	Voc	Ye
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Multi Monitoring & Control Software Compatible	Screen Saver	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Y	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Ye
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Auto Display Adjustment Upgrade Kit Super High Quality Up-Scaling Yes	Multi Monitoring & Control Software Compatible	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes		-	Yes	Yes	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Ye
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^{11:} Limitations exist for USB input. For details, please see the User's Manual.
12: Suffix of the part number may differ depending on the license type.
13: Supports Ver.1.1 or later.