

Panasonic

BUSINESS



Professional DISPLAYS

Line-up Catalogue Jan 2016



Panasonic®



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All information included here is valid as of January 2016.

CT16-EG01PF Printed in Japan.



Panasonic Professional Displays Lineup

4K UHD Display



LQ70 Series

500 cd/m²

98" TH-98LQ70

84" TH-84LQ70

98" TH-98LQ70L

84" TH-84LQ70L

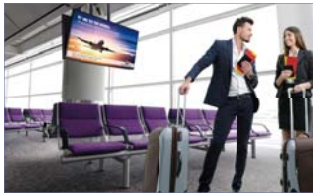
- High Durability & Reliability
- Excellent 4K Image Quality
- Easy Installation & System Expandability



*Actual resolution : 3840 x 2160p

(LQ70 Series only)

Indoor



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

AF1 Series

500 cd/m²

55" TH-55AF1

49" TH-49AF1

42" TH-42AF1



LF50 Series

700 cd/m²

80" TH-80LF50

70" TH-70LF50

LF80 Series

700 cd/m²

55" TH-55LF80

49" TH-49LF80

42" TH-42LF80

LF8 Series

500 cd/m²

55" TH-55LF8

49" TH-49LF8

42" TH-42LF8



(LF80 Series only)

(LF50 Series only)

Video Wall



- Installation Flexibility
- High Reliability
- High Visibility

LFV70

700 cd/m²

55" TH-55LFV70

55" TH-55LFV60

LFV6

500 cd/m²

55" TH-55LFV6

47" TH-47LFV5



(LFV70 only)

(LFV70/LFV60/LFV6 only)

(LFV5 only)

Outdoor



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

LFX60

2000 cd/m²

47" TH-47LFX60

LFX6N

1200 cd/m²

47" TH-47LFX6N



Multi Touch Screen



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

LFB70 Series

350 cd/m²

80" TH-80LFB70

65" TH-65LFB70

50" TH-50LFB70



Network



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

LFC70 Series

350 cd/m²

80" TH-80LFC70

65" TH-65LFC70

50" TH-50LFC70



Standard



- Slim & Stylish offers Excellent Visibility
- Simple, Flexible Media Presentation
- Generous Connectivity for Professional Use

LFE8 Series

350 cd/m²

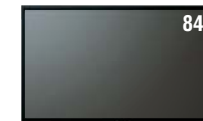
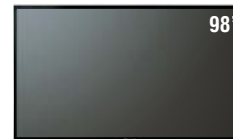
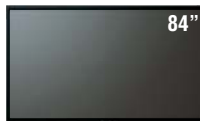
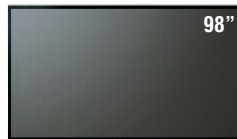
65" TH-65LFE8

55" TH-55LFE8

48" TH-48LFE8

43" TH-43LFE8





Model no.	TH-98LQ70	TH-84LQ70	TH-98LQ70L	TH-84LQ70L
DISPLAY PANEL				
Screen Size (Diagonal)/Aspect Ratio	98-inch (2476.9 mm)/16:9	84-inch (2134.6 mm)/16:9	98-inch (2476.9 mm)/16:9	84-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)	2159 x 1214 mm	1860 x 1047 mm	2159 x 1214 mm	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
Dynamic Contrast Ratio	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°
TERMINAL	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 x 1 (DP1.2a)*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 x 1 (DP1.2a)*1	
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 set (Shared with PC In)		Stereo Mini Jack (M3) x 1 set (Shared with PC In)	
PC In	Mini D-sub 15-pin x 1 (Female)*2		Mini D-sub 15-pin 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 Jack (M3) x 1		Stereo Mini Jack (M3) x 1	
Serial In	D-sub 9-pin x 1, RS-232C Compatible		D-sub 9-pin x 1, RS-232C Compatible	
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)	
DIGITAL LINK	RJ45 x 1 (Shared with LAN)		RJ45 x 1 (Shared with LAN)	
Function Slot	SLOT NX x 2 (Vacant)		SLOT NX x 2 (Vacant)	
GENERAL	220-240 V AC, 50/60 Hz		220-240 V AC, 50/60 Hz	
Power Requirements	220-240 V AC, 50/60 Hz		220-240 V AC, 50/60 Hz	
Power Consumption	620 W	540 W	620 W	540 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)	2233 x 1288 x 122 mm	1949 x 1141 x 99 mm	2233 x 1288 x 113 mm	1949 x 1141 x 92 mm
Carton Size (W x H x D)	2406 x 1520 x 460 mm	2156 x 1361 x 404 mm	2406 x 1520 x 460 mm	2156 x 1361 x 404 mm
Weight	Approx. 136.0 kg	Approx. 108.0 kg	Approx. 105.0 kg	Approx. 84.0 kg
Gross Weight	Approx. 161.0 kg	Approx. 130.0 kg	Approx. 130.0 kg	Approx. 106.0 kg
Protective Glass	Yes	Yes	—	—
Built-in Speaker	20W [10W + 10W] (10% THD)		20W [10W + 10W] (10% THD)	
Orientation	Landscape/Portrait		Landscape/Portrait	
Tilting Angle	10 degrees with landscape setting and 5 degrees with portrait setting*3		10 degrees with landscape setting and 5 degrees with portrait setting*3	
Operating Environment	Temperature: 0 °C to 40 °C / Humidity: 20 % to 80 % (Non condensation) / Altitude 0-2400 m*4		Temperature: 0 °C to 40 °C / Humidity: 20 % to 80 % (Non condensation) / Altitude 0-2400 m*4	
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)	
Operating Time*5	24 h/day		24 h/day	
OPTIONS	TY-ST103PF9		TY-ST103PF9	
Pedestal	TY-ST103PF9		TY-ST103PF9	
Wall-hanging Bracket	TY-WK103PV9		TY-WK103PV9	
Ceiling-hanging Bracket	TY-CE103PS10*6		TY-CE103PS10*6	
Mobile Stand	—		—	
3G-SDI Terminal Board	TY-TBN03G *Require 2 boards for 4K/60p		TY-TBN03G *Require 2 boards for 4K/60p	
Digital Interface Box	ET-YFB100G		ET-YFB100G	
DIGITAL LINK Switcher	ET-YFB200G		ET-YFB200G	

*1: HDCP supported, Embedded audio 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 (1400 m and higher and below 2400 m above sea level): 0°C to 35 °C When using the unit where it is 1400 m and higher and below 2400 m above sea level, make sure [High altitude mode] is set to [ON].

*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.

A wide range of professional 4K required applications

• Public Information



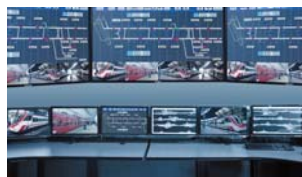
• Store Signage



• Rentals & Staging



• Control Rooms



• Broadcast Studios

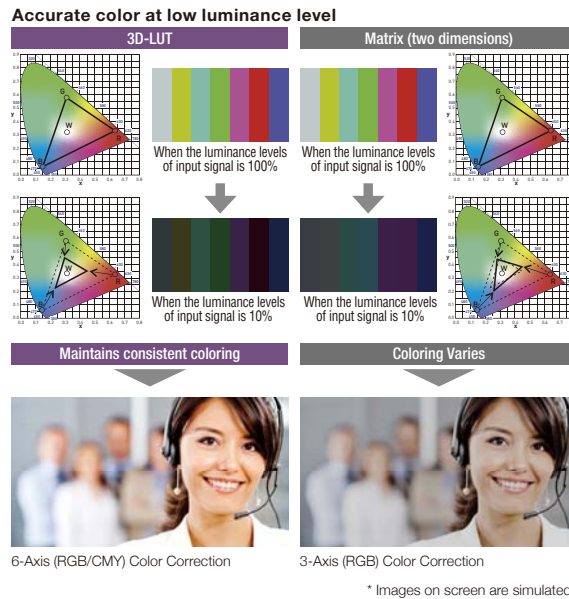


• Meeting Rooms



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 (RGB) and their complementary colors (CMY). This keeps the intermediate shades of extremely fine colors vibrant and lifelike.



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.

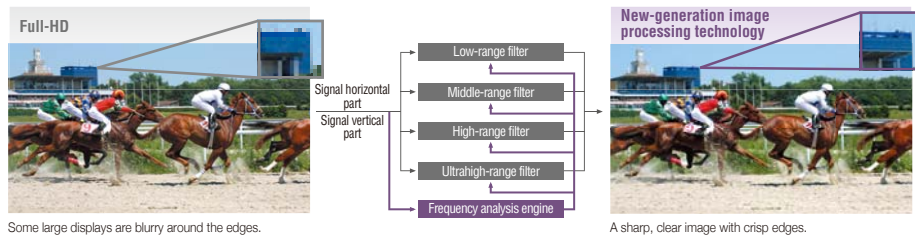


* Some restrictions exist for input signals and display splitting.
* 3G-SDI input and 4K image are not supported by the 4-Input Multi Display function.

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 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

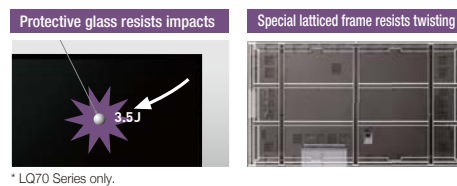
The new SLOT NX makes it possible to change the interface to match the application. If the optional 3G-SDI Terminal Board is mounted, the LQ70 Series can be connected with SDI. This feature is convenient for use in broadcasting stations, for rental use and for long-distance connection. The LQ70 Series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



* All images shown are simulated.
* SLOT NX is not compatible with SLO2 2.0.
* Require 2 boards for 4K/60p

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.



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

* Images on screen are simulated.

4K Special Website



Feature video
4K UHD LCD Display LQ70 Series





Model no.	TH-55AF1	TH-49AF1	TH-42AF1
DISPLAY PANEL			
Screen Size (Diagonal)/Aspect Ratio	55-inch (1387 mm)/16:9	49-inch (1232 mm)/16:9	42-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)	1209 x 680 mm	1073 x 604 mm	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/m ² (Typ)	500 cd/m ² (Typ)	500 cd/m ² (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)
PLATFORM	Android 4.4.3 Cortex-A9, 1.0 GHz (Quad) RAM 1 GB / ROM 8 GB		Android 4.4.3 Cortex-A9, 1.0 GHz (Quad) RAM 1 GB / ROM 8 GB
TERMINAL			
Display	VIDEO In	BNC x 1 set (Shared with Component In)	
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with Component In)	
	HDMI In	HDMI Type A Connector x 2	
	Component/RGB In	BNC x 1 set (Shared with VIDEO In)	
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with Video In)	
	DVI-D In	DVI-D 24-pin x 1	
	Audio In (L/R)	Stereo Mini Jack (M3) x 1 (Shared with PC In)	
	DVI-D Out	DVI-D 24-pin x 1	
	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)	Stereo Mini Jack (M3) x 1		
Serial In/Out	D-sub 9-pin x 1/x 1, RS-232C Compatible		
USB	USB connector (TYPE A) x 1, DC 5 V/1 A (USB3.0 is not supported)		
IR In/Out	Stereo Mini Jack (M3) x 1 / x 1		
Function Slot	-		
OpenPort PLATFORM	RJ45 x 1 for Network Connection, 10BASE-T/100BASE-TX/1000BASE-T, Compatible with PLink™		RJ45 x 1 for Network Connection, 10BASE-T/100BASE-TX/1000BASE-T, Compatible with PLink™
LAN	RJ45 x 1 for Network Connection, 10BASE-T/100BASE-TX/1000BASE-T, Compatible with PLink™		RJ45 x 1 for Network Connection, 10BASE-T/100BASE-TX/1000BASE-T, Compatible with PLink™
USB	USB2.0 connector (TYPE A) x 3, DC 5 V/500 mA		USB2.0 connector (TYPE A) x 3, DC 5 V/500 mA
Micro-USB	Micro USB x 1		Micro USB x 1
microSD card slot	microSD, microSDHC x 1		microSD, microSDHC x 1
Wireless LAN	IEEE 802.11a/b/g/n		IEEE 802.11a/b/g/n
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	190 W	175 W	155 W
Power Off Condition	Approx. 0.3 W	Approx. 0.3 W	Approx. 0.3 W
Stand-by Condition	Approx. 0.5 W (When [OpenPort PLATFORM standby] is set to [Off]) Approx. 20 W (When [OpenPort PLATFORM standby] is set to [On])	Approx. 0.5 W (When [OpenPort PLATFORM standby] is set to [Off]) Approx. 20 W (When [OpenPort PLATFORM standby] is set to [On])	Approx. 0.5 W (When [OpenPort PLATFORM standby] is set to [Off]) Approx. 20 W (When [OpenPort PLATFORM standby] is set to [On])
Dimensions (W x H x D)	1229 x 699 x 72* mm	1093 x 623 x 72* mm	947 x 541 x 72* mm
Carton Size (W x H x D)	1444 x 922 x 223 mm	1308x 846 x 203 mm	1123 x 743 x 203 mm
Bezel Width	6.3 mm	6.3 mm	6.3 mm
Weight	Approx. 25.0 kg	Approx. 19.3 kg	Approx. 15.6 kg
Gross Weight	Approx. 33.0 kg	Approx. 26.0 kg	Approx. 21.0 kg
Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm	VESA Compliant 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 adjustment 0-45 degrees for both left and right)	Landscape/Portrait (Angle adjustment 0-45 degrees for both left and right)	Landscape/Portrait (Angle adjustment 0-45 degrees for both left and right)
Tilting Angle*1	0-45 degrees forward/backward with landscape/portrait setting*1 (Angle adjustment is not possible for forward/backward tilting installation.)	0-45 degrees forward/backward with landscape/portrait setting*1 (Angle adjustment is not possible for forward/backward tilting installation.)	0-45 degrees forward/backward with landscape/portrait setting*1 (Angle adjustment is not possible for forward/backward tilting installation.)
Operating Environment	Temperature: 0 °C to 40 °C*2 ; 0 °C to 35 °C*3 / Humidity: 20 % to 80 % (Non-condensation)	Temperature: 0 °C to 40 °C*2 ; 0 °C to 35 °C*3 / Humidity: 20 % to 80 % (Non-condensation)	Temperature: 0 °C to 40 °C*2 ; 0 °C to 35 °C*3 / 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)
Operating Time*4	24 h/day		24 h/day
OPTIONS			
Pedestal	TY-ST43PE8	TY-ST43PE8	TY-ST43PE8
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 1400 m altitude

*3: for between 1400 m and 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.

* The handle part excluded, the thickness is 57 mm.

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 6.3 mm bezel complements beautiful, large-format images. A Preset Optimal Image mode is also available via application to attract customers' attention.

LF Series

Indoor



Model no.	TH-80LF50	TH-70LF50	TH-55LF80	TH-49LF80	TH-42LF80	
DISPLAY PANEL						
Screen Size (Diagonal)/Aspect Ratio	80-inch (2032 mm)/16:9	70-inch (1765 mm)/16:9	55-inch (1387 mm)/16:9	49-inch (1232 mm)/16:9	42-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)	1771 x 996 mm	1538 x 865 mm	1209 x 680 mm	1073 x 604 mm	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/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	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)	
TERMINAL						
VIDEO In	BNC x 1		BNC x 1 set (Shared with Component / RGB Y/G)		BNC x 1 set (Shared with Component / RGB Y/G)	
Audio In (L/R)	Pin Jack x 1 set		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 1		HDMI Type A Connector x 2		HDMI Type A Connector x 2	
Component/RGB In	BNC x 1 set		BNC x 1 set (Shared with Video In)		BNC x 1 set (Shared with Video In)	
Audio In (L/R)	Pin Jack x 1 set		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		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	DVI-D 24-pin x 1		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)		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)		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		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/x 1, RS-232C Compatible		D-sub 9-pin x 1/x 1, RS-232C Compatible	
DIGITAL LINK	—		RJ45 x 1 100BASE-TX, Compatible with PLink™ (Shared with LAN)		RJ45 x 1 100BASE-TX, Compatible with PLink™ (Shared with LAN)	
LAN	RJ45 x 1 10BASE-T/100BASE-TX, Compatible with PLink™		RJ45 x 1 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)		RJ45 x 1 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)	
IR In/Out	—		Stereo Mini Jack (M3) x 1 / x 1		Stereo Mini Jack (M3) x 1 / x 1	
USB	—		USB Type A Connector x 1, DC 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	SLOT2.0 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	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. 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)	1848 x 1073 x 89 mm	1604 x 931 x 89 mm	1229 x 699 x 72* mm	1093 x 623 x 72* mm	947 x 541 x 72* mm	
Carton Size (W x H x D)	1993 x 1188 x 349 mm	1750 x 1047 x 349 mm	1444 x 922 x 223 mm	1308 x 846 x 203 mm	1123 x 743 x 203 mm	
Bezel Width	36 mm	30 mm	6.3 mm	6.3 mm	6.3 mm	
Weight	Approx. 60.0 kg	Approx. 47.0 kg	Approx. 24.7 kg	Approx. 19.0 kg	Approx. 15.3 kg	
Gross Weight	Approx. 71.0 kg	Approx. 56.0 kg	Approx. 32.0 kg	Approx. 26.0 kg	Approx. 20.0 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	VESA compliant 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		Landscape/Portrait (Angle adjustment 0-45 degrees for both left and right)			
Tilting Angle	0-20 degrees forward with landscape setting*1		0-45 degrees forward/backward with landscape/portrait setting*1 (Angle adjustment is not possible for forward/backward tilting installation.)			
Operating Environment	Temperature: 0 °C to 40 °C / Humidity: 20 % to 80 % (Non Condensation)		Temperature: 0 °C to 40 °C*3 : 0 °C to 35 °C*4 / Humidity: 20 % to 80 % (Non-condensation)			
Storage Environment	Temperature: -20 °C to 60 °C*2 / Humidity: 20 % to 80 % (Non Condensation)		Temperature: -20 °C to 60 °C / Humidity: 20 % to 80 % (Non-condensation)			
Operating Time*5	24 h/day		24 h/day			
OPTIONS						
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)	
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	—	—	—	

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

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

*3: for up to 1400 m altitude

*4: for between 1400 m and 2800 m altitude

*5: 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.

*6: 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.

★ The handle part excluded, the thickness is 57 mm.



Model no.	TH-55LF8	TH-49LF8	TH-42LF8
DISPLAY PANEL			
Screen Size (Diagonal)/Aspect Ratio	55-inch (1387 mm)/16:9	49-inch (1232 mm)/16:9	42-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)	1209 x 680 mm	1073 x 604 mm	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/m ² (Typ)	500 cd/m ² (Typ)	500 cd/m ² (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)
TERMINAL			
VIDEO In	BNC x 1 set (Shared with 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 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/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 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
USB	USB Type A Connector x 1, DC 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	-		-
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	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)	1229 x 699 x 72* mm	1093 x 623 x 72* mm	947 x 541 x 72* mm
Carton Size (W x H x D)	1444 x 922 x 223 mm	1308 x 846 x 203 mm	1123 x 743 x 203 mm
Bezel Width	6.3 mm	6.3 mm	6.3 mm
Weight	Approx. 24.7 kg	Approx. 19.0 kg	Approx. 15.3 kg
Gross Weight	Approx. 32.0 kg	Approx. 26.0 kg	Approx. 20.0 kg
Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm	VESA Compliant 400 x 400 mm	VESA Compliant 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 adjustment 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 with landscape/portrait setting*1 (Angle adjustment is not possible for forward/backward tilting installation.)		0-45 degrees forward/backward with landscape/portrait setting*1 (Angle adjustment is not possible for forward/backward tilting installation.)
Operating Environment	Temperature: 0 °C to 40 °C*2 ; 0 °C to 35 °C*3 / Humidity: 20 % to 80 % (Non-condensation)		Temperature: 0 °C to 40 °C*2 ; 0 °C to 35 °C*3 / 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)
Operating Time*4	24 h/day		24 h/day
OPTIONS			
Pedestal	TY-ST43PE8	TY-ST43PE8	TY-ST43PE8
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.1.1 or later)	TY-VUK10 (Supports Ver.1.1 or later)	TY-VUK10 (Supports Ver.1.1 or later)
Multi Window Processor	ET-MWP100G	ET-MWP100G	ET-MWP100G

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

*2: for up to 1400 m altitude

*3: for between 1400 m and 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.

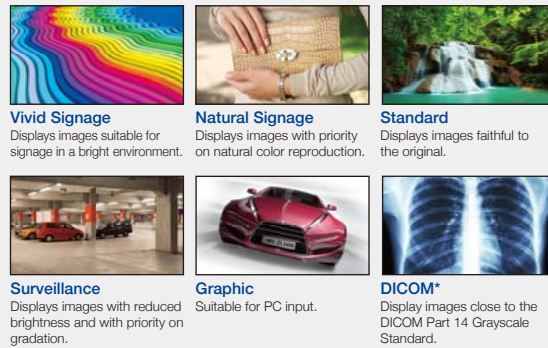
*5: Suffix of the part number may differ depending on the license type.

★ The handle part is excluded, the thickness is 57mm.

Easy Display of Images Optimized for the Display Content

AF1 LF80 LF8

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 mode for the video source and the place of display.



*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

AF1 LF80 LF8

6-segment Color Management

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

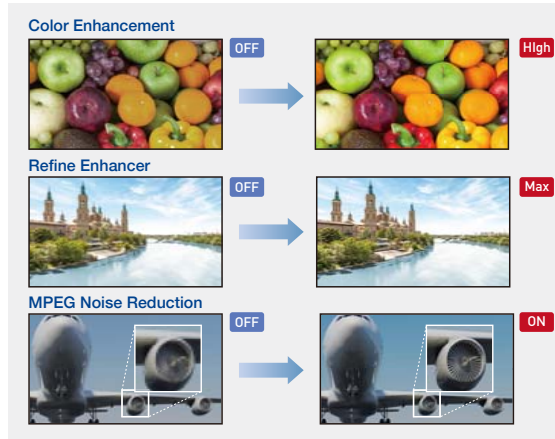
Displays images with enhanced color.

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.

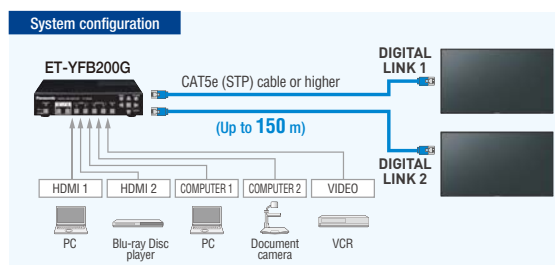


* Images on screen are simulated.

DIGITAL LINK Function Enables Simple Installation and Low System Costs

LF80

Using DIGITAL LINK makes it possible to transmit video, audio and control signals over a long distance (up to 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 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

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.

Built-in Speaker

AF1 LF80 LF8

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



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.

Stylish Slim Design and Light Weight

AF1 LF50 LF80 LF8

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.

Flexible, Vertical Installation

AF1 LF50 LF80 LF8

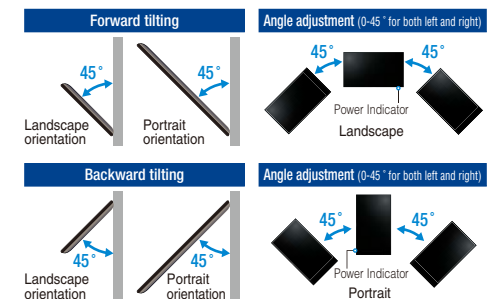
The display can be installed either horizontally or vertically to match the content and installation location without being affected by "Mura" (unevenness). This is because the display has relatively uniform pressure distribution as compared to a TV panel, which results in far better stability. Regardless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



Choose the Installation to Match Your Application

AF1 LF80 LF8

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.

LFV Series



Video Wall

Model no.	TH-55LFV70	TH-55LFV60		TH-55LFV6	TH-47LFV5
DISPLAY PANEL					
Screen Size (Diagonal)/Aspect Ratio	55-inch (1387mm)/16:9	55-inch (1387 mm)/16:9		55-inch (1387 mm)/16:9	47-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)	1209 x 680 mm	1209 x 680 mm		1209 x 680 mm	1039 x 584 mm
Number 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)
Dynamic Contrast Ratio	500000:1	500000:1		500000:1	500000:1
Viewing 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 %)
TERMINAL					
VIDEO 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)
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)	Stereo Mini Jack (M3) x 1 (Shared with DVI-D In)
DIGITAL LINK In/DIGITAL LINK Out	RJ45 x 1/RJ45 x 1	—/—		—/—	—/—
USB	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 Compatible
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)
GENERAL					
Power Requirements	220-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz		220-240 V AC, 50/60 Hz	220-240 V AC, 50/60 Hz
Power Consumption	330 W	290 W		210 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)	1213 x 684 x 95 mm	1213 x 684 x 95 mm		1213 x 684 x 95 mm	1045 x 590 x 109 mm
Carton Size (W x H x D)	1551 x 961 x 450 mm	1544 x 973 x 301 mm		1544 x 973 x 301 mm	1390 x 950 x 445 mm
Bezel Width	2.25 mm (Left/Top), 1.25 mm (Right/Bottom)	2.25 mm (Left/Top), 1.25 mm (Right/Bottom)		2.25 mm (Left/Top), 1.25 mm (Right/Bottom)	3.2 mm (Left/Top), 1.7 mm (Right/Bottom)
Bezel to Bezel	3.5 mm (Multi Screen)	3.5 mm (Multi Screen)		3.5 mm (Multi Screen)	4.9 mm (Multi Screen)
Weight	Approx. 30.0 kg	Approx. 30.0 kg		Approx. 30.0 kg	Approx. 25.0 kg
Gross Weight	Approx. 46.0 kg	Approx. 40.0 kg		Approx. 40.0 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] (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
Tilting Angle*1	Vertical Only	Vertical Only		Vertical Only	Vertical Only
Operating Environment	Temperature: 0 °C to 40 °C*2 / Humidity: 10 % to 90 % (Non Condensation)	Temperature: 0 °C to 40 °C*3 / 0 °C to 35 °C*4 / Humidity: 10 % to 90 % (Non-Condensation)		Temperature: 0 °C to 40 °C*3 / 0 °C to 35 °C*4 / Humidity: 10 % to 90 % (Non-Condensation)	Temperature: 0 °C to 40 °C*2 / 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)		Temperature: -20 °C to 60 °C / Humidity: 10 % to 90 % (Non Condensation)	Temperature: -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
OPTIONS					
Remote Control Kit	—	—		—	TY-RM50W
Cover Frame Kit	TY-CF55VW50	TY-CF55VW50		TY-CF55VW50	TY-CF47VW5
Installation Mount	TY-VK55LV1	TY-VK55LV1		TY-VK55LV1	TY-VK47LV1
Multi Window Processor	ET-MWP100G	ET-MWP100G		ET-MWP100G	ET-MWP100G
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.

*2: For up to 2000 m altitude. *3: For up to 1400 m altitude. *4: For between 1400 m and 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.

Installation video



Video Wall Workflow Panasonic TY-VK55LV1

Ultra Narrow Bezel with 3.5 mm* Thickness

LFV70 LFV60 LFV6

The ultra-narrow bezel results in joints that are only 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-bezel 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 4.9 mm wide.



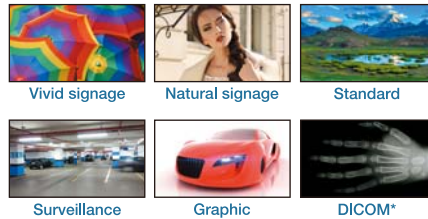
* LFBV70/60/6 Series.

Optimized Image Modes

LFV60 LFV6

Conventional display panels usually include basic display mode presets such as Standard and Dynamic. The LFBV60/6 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



Multi-Screen Video Synchronization

LFV60 LFV6

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

LFV60 LFV6

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

LFV70 LFV60 LFV6

The LFBV70/60/6 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 Software¹, it's possible to easily replace content stored on USB via LAN², 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 LFBV60/6 Series displays only.

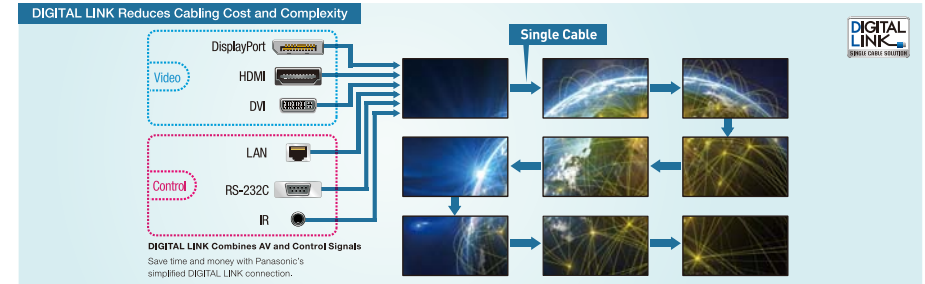


Note: Connection example for LFBV60/6 Series shown.

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

LFV70

The terminal board for the LFBV70 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.

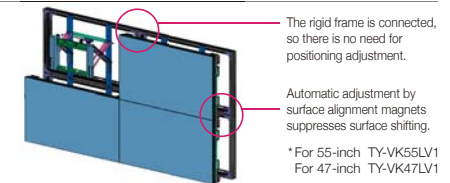


Installation Frame Simplifies Set-up

LFV70 LFV60 LFV6 LFV5

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.



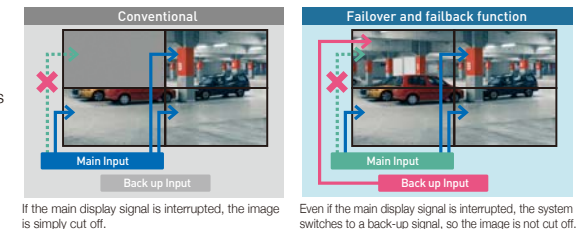
* For 55-inch TY-VK55LV1
For 47-inch TY-VK47LV1

Failover and Failback Functions Support Emergency Situations

LFV70 LFV60 LFV6

The LFBV70/60/6 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.

* LFBV70 Series only.



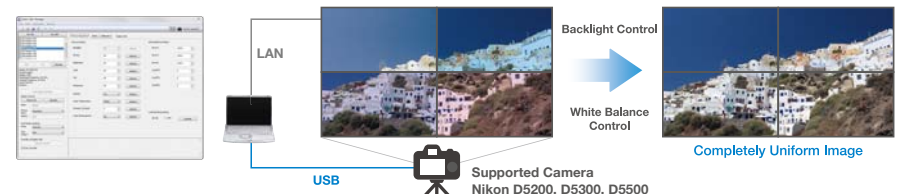
* Supports Ver.1.1 or later

Video Wall Manager Software and Auto Display Adjustment Upgrade Kit

LFV70 LFV60 LFV6 LFV5

Panasonic's free Video Wall Manager software can be used with LFBV 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 LFBV70 and TY-VUK10 connected



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

LFX Series



Model no.	TH-47LFX60	TH-47LFX6N
DISPLAY PANEL		
Screen Size (Diagonal)/Aspect Ratio	47-inch (1192 mm)/16:9	47-inch (1192 mm)/16:9
Panel Type	LCD IPS Panel/D-LED	LCD IPS Panel/D-LED
Effective Display Area (W x H)	1039 x 584 mm	1039 x 584 mm
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)
Contrast Ratio	1300:1	1300:1
Dynamic Contrast	500000 : 1	500000 : 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	
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)	
GENERAL		
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)	1162 x 706 x 216 mm	1162 x 706 x 216 mm
Carton Size (W x H x D)	1308 x 851 x 323 mm	1308 x 851 x 323 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)	
Dust and Water Resistant Level	IP55 Equivalent	
Orientation	Landscape/Portrait	
Tilting Angle	0-20 degrees forward with landscape and portrait setting / 0-20 degrees backward with portrait setting*1	
Operating Environment*2	Temperature: -20 °C*3 to 50 °C / Humidity: 20 % to 80 % (Non Condensation)	
Storage Environment	Temperature: -20 °C to 60 °C / Humidity: 20 % to 80 % (Non Condensation)	
Operating Time*4	24 h/day	
OPTIONS		
Replacement Air Filter	TY-AF60STD	TY-AF60STD
Digital Interface Box	ET-YFB100G	ET-YFB100G
DIGITAL LINK Switcher	ET-YFB200G	ET-YFB200G
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		Water Resistance	
Level	Degree of Protection	Level	Degree of Protection
5	Protected against dust limited ingress (no harmful deposit)	5	Protected against water jet.

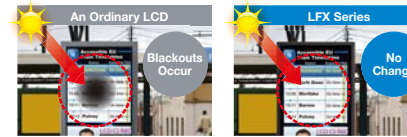
High-Brightness 2000-cd/m² Model with Wide-Viewing-Angle IPS Panel and LED Backlight

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.



Direct sunlight raises the LCD panel temperature and causes blackouts.

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, performance remains unchanged even in cold and hot climates.

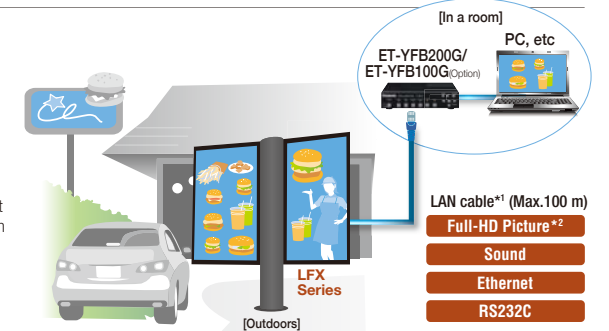
*1: When used in Outdoor mode.

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 DIGITAL LINK Switcher (ET-YFB200G)/Digital Interface Box (ET-YFB100G).

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

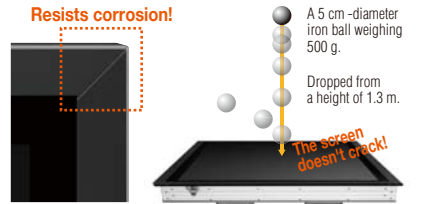
*2: WUXGA (1920 x 1200 pixels) compatible.



Outdoor

Aluminum Cabinet and Tempered Glass

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)

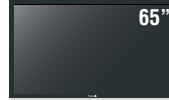
Early Warning Software monitors the status of display connected to an intranet and informs you when an abnormality is detected or predicted, and when there are symptoms of trouble. This minimizes display downtime to support more stable operation.

Feature video



Outdoor Tough Signage Full HD LCD Display video

LFB Series



Multi Touch Screen

Model no.	TH-80LFB70	TH-65LFB70	TH-50LFB70
DISPLAY PANEL			
Screen Size (Diagonal)/Aspect Ratio	80-inch (2032 mm)/16:9	65-inch (1638 mm)/16:9	50-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)	1771 x 996 mm	1428 x 803 mm	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/m ² (Typ)	350 cd/m ² (Typ)	350 cd/m ² (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°
TOP 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 (Digital) x 1		DVI-D 24-pin (Digital) 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 (male) for external control, RS-232C Compatible		D-Sub 9-pin x 1 (male) for external control, 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	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)	1868 x 1093 x 104 mm	1517 x 892 x 106 mm	1185 x 705 x 103 mm
Carton Size (W x H x D)	2075 x 1319 x 404 mm (TH-80LFB70W) 2069 x 1315 x 400 mm (TH-80LFB70E)	1720 x 1027 x 286 mm (TH-65LFB70W) 1714 x 1023 x 282 mm (TH-65LFB70E)	1387 x 839 x 286 mm (TH-50LFB70W) 1385 x 836 x 284 mm (TH-50LFB70E)
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]
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	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)
Operating Time ²	18 h/day		18 h/day
OPTIONS			
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
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

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



*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.

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



Model no.	TH-80LFC70	TH-65LFC70	TH-50LFC70
DISPLAY PANEL			
Screen Size (Diagonal)/Aspect Ratio	80-inch (2032 mm)/ 16:9	65-inch (1638 mm)/16:9	50-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)	1771 x 996 mm	1428 x 803 mm	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/m ² (Typ)	350 cd/m ² (Typ)	350 cd/m ² (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°
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 (Digital) x 1		DVI-D 24-pin (Digital) 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 (male) for external control, RS-232C Compatible		D-Sub 9-pin x 1 (male) for external control, 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 PJLink™ (Shared with DIGITAL LINK)		RJ45 x 1, 100BASE-TX, Compatible with PJLink™ (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)	1868 x 1093 x 99 mm	1484 x 859 x 97 mm	1151 x 672 x 94 mm
Carton Size	2075 x 1319 x 404 mm (TH-80LFC70W) 2069 x 1315 x 400 mm (TH-80LFC70E)	1720 x 1027 x 286 mm (TH-65LFC70W) 1714 x 1023 x 282 mm (TH-65LFC70E)	1387 x 839 x 286 mm (TH-50LFC70W) 1385 x 836 x 284 mm (TH-50LFC70E)
Weight	Approx. 83.0 kg	Approx. 55.0 kg	Approx. 30.0 kg
Gross Weight	Approx. 101.0 kg	Approx. 64.0 kg	Approx. 38.0 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]
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	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)
Operating Time*2	18 h/day		18 h/day
OPTIONS			
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-ST85PB2	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
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

Feature video



Introduction of Panasonic Wireless Solution



Panasonic Wireless Projector for iOS v3.3.0



Panasonic Wireless Projector for Android v2.4.0

*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. *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 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, 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.



Easy and Intuitive Operation LFB70

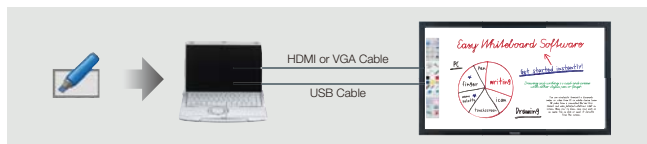
Four-point multi-touch functionality makes it easy to resize and move graphics around on your documents. The included Stylus Pen and Eraser accessory is a convenient way to write large amounts of text. So simple to use, even for children and less technically experienced presenters.



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:

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



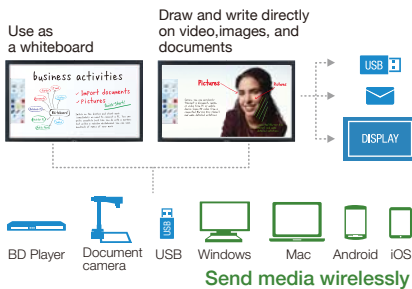
Whiteboard Software Version 5.1 for Windows Supported by Windows® 7, Windows® 8, and Windows® 8.1
Whiteboard Software Version 1.1 for Macintosh Supported by Mac OS X v10.10.3
Whiteboard Software Version 1.0 for Macintosh Supported by Mac OS X v10.6.8, v10.7.5, v10.8.5, v10.9.1

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*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.



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

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.



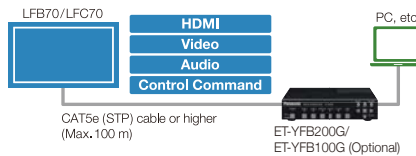
Instant Playback of Content via USB

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.

System Flexibility

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 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.



Other Features

- Expand and Customize with SLOT.2.0
- 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).

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.



16-Window Index*7



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





Model no.	TH-65LFE8	TH-55LFE8	TH-48LFE8	TH-43LFE8
DISPLAY PANEL				
Screen Size (Diagonal)/Aspect Ratio	65-inch (1638 mm)/16:9	55-inch (1387 mm)/16:9	48-inch (1209 mm)/16:9	43-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)	1428 x 803 mm	1209 x 680 mm	1054 x 592 mm	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)
TERMINAL^{*1}				
VIDEO In	4-pole Mini Jack (M3) x 1		4-pole Mini Jack (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 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 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 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, RS-232C Compatible		D-sub 9-pin x 1, RS-232C Compatible	
DIGITAL LINK	-		-	
LAN	RJ45 x 1 10BASE-T/100BASE-TX, Compatible with PLink™		RJ45 x 1 10BASE-T/100BASE-TX, Compatible with PLink™	
Function Slot	-		-	
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	220-240 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)	1451 x 829 x 62 mm	1239 x 712 x 62 mm	1082 x 624 x 62 mm	969 x 560 x 61 mm
Carton Size	1667 x 1052 x 280 mm	1365 x 864 x 185 mm	1192 x 773 x 171 mm	1070 x 696 x 159 mm
Bezel Width	7.5 mm (Left/Right/Top), 10.5 mm (Bottom)	12.6 mm (Left/Right/Top), 14.5 mm (Bottom)	11.9 mm (Left/Right/Top), 14.7 mm (Bottom)	11.9 mm (Left/Right/Top), 14.9 mm (Bottom)
Weight	Approx. 36.2 kg	Approx. 16.0 kg	Approx. 11.5 kg	Approx. 8.7 kg
Gross Weight	Approx. 47.0 kg	Approx. 24.0 kg	Approx. 17.0 kg	Approx. 14.0 kg
Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm		VESA Compliant 200 x 200 mm	
Built-in Speaker	20 W [10W + 10 W] (10% THD)		20 W [10W + 10 W] (10% THD)	
External Speaker	-		-	
Orientation	Landscape/Portrait		Landscape/Portrait	
Tilting Angle	0-20 degrees forward with landscape setting ^{*3}		0-20 degrees forward with landscape setting ^{*3}	
Operating Environment	Temperature: 0 °C to 40 °C ^{*4} / Humidity: 20 % to 80 % (Non Condensation) ^{*5}		Temperature: 0 °C to 40 °C ^{*4} / Humidity: 20 % to 80 % (Non Condensation) ^{*5}	
Storage Environment	Temperature: -20 °C to 60 °C ^{*4} / Humidity: 20 % to 80 % (Non Condensation) ^{*5}		Temperature: -20 °C to 60 °C ^{*4} / Humidity: 20 % to 80 % (Non Condensation) ^{*5}	
Operating Time ^{*6}	16 h/day		16 h/day	
OPTIONS				
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 (1400 m and higher and below 2800 m above sea level): 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 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 7.5 mm wide on the top and both sides, and 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.

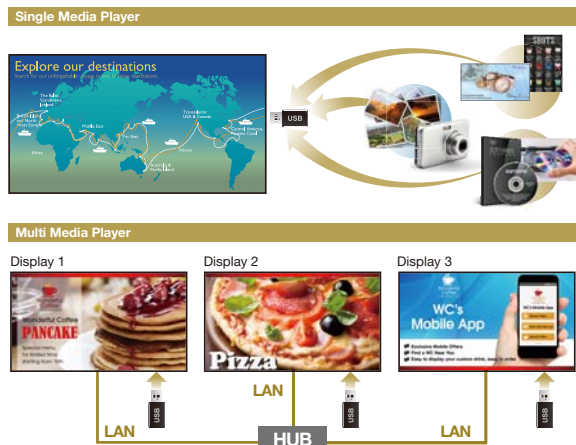
[Notes]

- 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.



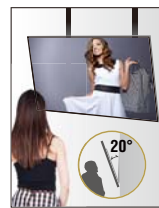
Connecting more than one unit with LAN cable reproduces files in USB memory simultaneously.
* Each display needs respective USB memory content.

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.



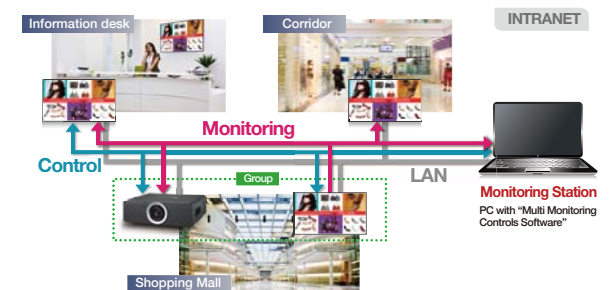
Portrait



*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 device 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.

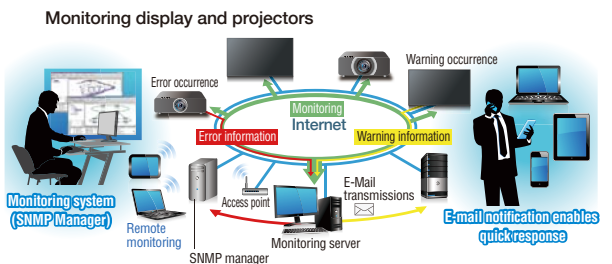


* Depending on the production period, some products doesn't support this function. Please check Multi Monitoring & Control Software page for more information.
<http://panasonic.net/prodisplays/download/software/multi/index.html>

Early Warning Software Compatible

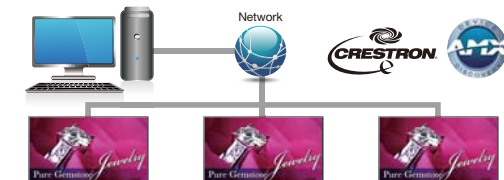
Combination with a network that includes Early Warning Software also allows remote monitoring of the panel's usage condition for cost-saving operation.

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



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

Panasonic professional displays at work in a variety of field and location.

Arte, France

LFV Series
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 3.5mm 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 3.5mm
- High image quality with extreme reliability
- Failover/Failback



Seibu Railway Co., Ltd., Japan

LQ Series
TH-84LQ70 x 24

LF Series
TH-70LF50 x 40

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

LFV Series
TH-55LFV70 x 36

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.

For more information about case studies, please visit: <http://panasonic.net/prodisplays/casestudies/>

	4K				Indoor								Video Wall				Outdoor		Multi Touch Screen			Network			Standard					
	TH-98LQ70	TH-84LQ70	TH-98LQ70L	TH-84LQ70L	TH-80LF50	TH-70LF50	TH-55LF80	TH-49LF80	TH-42LF80	TH-55LF8	TH-49LF8	TH-42LF8	TH-55L FV70	TH-55L FV60	TH-55L FV6	TH-47L FV5	TH-47L FV60	TH-47L FV6N	TH-80L FB70	TH-65L FB70	TH-50L FB70	TH-80L FC70	TH-65L FC70	TH-50L FC70	TH-65L FE8	TH-55L FE8	TH-48L FE8	TH-43L FE8		
Size (inch)	98	84	98	84	80	70	55	49	42	55	49	42	55	55	55	47	47	47	80	65	50	80	65	50	65	55	48	43		
SPECIFICATIONS																														
Touch Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IP Rating	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IP55	IP55	-	-	-	-	-	-	-	-	-	-	-	
Operating Time	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	18	18	18	18	18	18	16	16	16	16	16	
DIGITAL LINK	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	-	-	-	Yes	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	
Wireless Function	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	
Miracast	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	
Protective Glass	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	
Function Slot	SLOT NX				SLOT2.0								-	-	-	-	-	-	SLOT2.0			SLOT2.0				-	-	-	-	-
4 Input Multi Display (up to FHD)	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INSTALLATION																														
Outdoor Installation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	Yes	Yes	Yes	Yes	Yes	
Multi Screen	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	
Bezel H/V Adjustment	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes		
Pre Calibration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fan-less Design	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes		
Monitor Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	
FUNCTIONS																														
Built-in Whiteboard	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	
USB Media Player	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	Yes	Yes	Yes	-	-	Yes ¹	Yes ¹	Yes ¹	Yes ¹	
Memory Viewer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	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	Yes	Yes	Yes	
Daisy-Chain Connection	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	
Frame Creation	Yes	Yes	Yes	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	Yes	Yes	Yes	
Fail Over/Fail Back	-	-	-	-	-	-	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	Yes	Yes	Yes	Yes	Yes	
PC 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	Yes	Yes	Yes	Yes	Yes	
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	Yes	Yes	Yes	Yes	Yes	
HDMI 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	
DIGITAL LINK Power Management	-	-	-	-	-	-	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Picture in Picture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Brightness Sensor	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
No Activity Power Off	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	Yes	Yes	Yes	Yes	
No Signal Power Off	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	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	Yes	Yes	Yes	Yes	
Timer Setting	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	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	Yes	Yes	Yes	Yes	
Early Warning Software Compatible ^{*2}	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	Yes	Yes	
Multi Monitoring & Control Software Compatible	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	
Videowall Manager/ Auto Display Adjustment Upgrade Kit	-	-	-	-	-	-	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes	Yes ^{*3}	Yes ^{*3}	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	
Super High Quality Up-Scaling	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

*1: Limitations exist for USB input. For details, please see the User's Manual.
 *2: Suffix of the part number may differ depending on the license type.
 *3: Supports Ver.1.1 or later.