Panasonic ideas for life

LCD Monitor Line-up Catalog

Panasonic

NEW BT-LH2550 25.5" LCD HD/SD Monitor





BT-LH1760 17" Wide LCD HD/SD Monitor

BT-LH80WU 7.9" Wide LCD HD/SD Monitor BT-LH900A 8.4" LCD HD/SD Monitor Panasonic's professional LCD video monitors feature compact, energy-efficient LCD panels with faithful color reproduction, fast image appearance, and a long list of functions to meet professional needs.

BT-LH2550



Wide Color Space

This compact 25.5-inch monitor offers a wide color space and 1920 x 1200-pixel resolution. Ideal for use in post-production and in applications such as filmmaking, Computer Graphics, printing and research.

 A wider color space than CRT models, and new color space modes — Adobe gamma 1.8, Adobe gamma 2.2 and D-Cinema gamma 2.6.

Built-in calibration function.

Advanced image-enhancing

circuitry, including excellent

line compensation circuit.

Various marker, cross hatch

Vector scope and waveform

Time code display with HD-SDI

overlay and blue-only display

virtually the same color

New 2-input Split-Screen function.

Three-dimensional LUT offering

reproduction as CRTs in all video

motion response and a diagonal

viewing angles.

formats.

functions.

monitoring.

input.

- gamma 2.6. shooting. Wide, 178° horizontal and vertical • Audio level meter overlay display
 - with SDI input.

 New unit design with slim frame
 - for space-saving installation. Two SDI (HD/SD), component and

· Closed caption display with

compensation for Varicam

VIDEO (NTSC) input.

Cine-gamma (F-REC)

- DVI-D inputs, RGB input compatible.
- RS-232C/GPI remote control terminals.
- Tally lamp (red, green).
- Headphone jack.
- Quiet operation without fan noise.
 Also operates on AC power
- (AC adaptor included). • Wall mountable
 - (with optional BT-WMA26G).

BT-LH1760



Ideal for studio use, this model has double-speed drive and a new image processing engine for higher image quality. It also features a host of valuable functions that have been requested by our higher-end customers.

- Advanced image-enhancing circuitry, including excellent motion response and a diagonal line compensation circuit.
- Three-dimensional LUT offering virtually the same color reproduction as CRTs in all video formats.
- Double-speed drive displays moving images with minimal motion blurring.
- Wide, 176° horizontal and vertical viewing angle.
- Marker and blue-only functions.
- Vectorscope (SDI-In only) and waveform monitoring.
- Cross hatch overlay display.
- Pixel-to-pixel display without
- resizing HD pixels.Coordination of multiple cameras on split screens.
- Time code (HD-SDI only) and closed caption (NTSC) display.

- Cine-gamma (F-REC) compensation for Varicam shooting.
- Production-tough aluminum diecast frame build quality.
- Two SDI, component and DVI-D inputs, PC input compatible.
 RS-232C/GPI remote control
- terminals.
 Tally lamp (red, green)
- Headphone jack and built-in
- stereo speakers. • Low power consumption and
- quiet operation without fan noise.Audio level meter overlay display
- (with SDI input). AC/DC power.
- Rack mounting (optional
- BT-MA1710G)
- Wall mounting (optional BT-WMA17G)
- LCD protective panel for outdoor use (optional BT-PRP17G)

WIDE 25.5"

With four screen sizes and five models to choose from, Panasonic monitors support broadcasting and image production tasks ranging from field recording with a camera-recorder to post-production and transmission.

BT-LH1710



This versatile, rack-mountable 17" wide-screen LCD operates on AC/DC power and can be used in various applications both in the studio and in the field.

- Advanced image-enhancing circuitry, including excellent motion response and a diagonal line compensation circuit.
- Three-dimensional LUT offering virtually the same color reproduction as CRTs in all video formats.
- Wide, 176° horizontal and vertical viewing angle.
- Marker and blue-only functions.
 Vectorscope (SDI-In only) and
- waveform monitoring.
- Cross hatch overlay display.Pixel-to-pixel display without
- resizing HD pixels.
- Coordination of multiple cameras on split screens.
- Time code (HD-SDI only) and closed caption (NTSC) display.
- Cine-gamma (F-REC) compensation for Varicam shooting.

- Production-tough aluminum diecast frame build quality.
- Two SDI, component and DVI-D inputs, PC input compatible.
- RS-232C/GPI remote control terminals.
- Tally lamp (red, green)
- Headphone jack and built-in stereo speakers.
- Low power consumption and quiet operation without fan noise.
- Audio level meter overlay display (with SDI input).
- AC/DC power
 Rack mounting (optional BT-MA1710G)
- Wall mounting
- (optional BT-WMA17G) • LCD protective panel for outdoor use (optional BT-PRP17G)

BT-LH900A

This small, lightweight, 8.4" unit features a high-resolution LCD panel and is ideal for monitoring recordings, installation in broadcast and production vehicles, and many more uses.

- Broadcast-quality color and gradation.
- Wide, 170° horizontal and vertical viewing angle.
- Marker and blue-only functions.
- Waveform monitoring.
- Cine-gamma (F-REC) compensation for Varicam
- shooting. • Thin, small and light for
- on-camera mounting.Versatile detached control panel.
- Production-tough aluminum
- diecast frame.
- HD/SD multi-format compatibility with two SDI and component inputs.
- RS-232C/GPI remote control terminals.
- Tally lamp (red, green)
- DC operation (Anton Bauer/DC IN) and low power consumption.
- Side-by-side rack mounting (with optional BT-MA900G).

8.4"

- terminals.

 Tally lamp (red, green)
- DC operation (Anton Bauer/DC IN) and low power consumption.
- Side-by-side rack mounting (with optional adaptor).

BT-LH80WU

LCD is sized perfectly for

lets this monitor serve as a

viewfinder for an HD camera.

Advanced image-enhancing

circuitry, including an I/P

line compensation circuit.

Waveform monitoring.

resizing HD pixels.

focused edges in red.

on-camera mounting.

diecast frame.

input.

Thin, small and light for

Production-tough aluminum

SDI (HD/SD) and component

15-pin viewfinder terminal for

RS-232C/GPI remote control

compatible camera-recorders.*2

conversion circuit for excellent

motion response and a diagonal

Marker and blue-only functions.

Cross hatch overlay display.

Pixel-to-pixel display without

Focus-in-Red function for easy

HD focusing by showing sharply

equipment. The 7.9" wide-screen

recording use or installation in a

vehicle. A focus assist function

SDI (HD/SD) standard

*1: The model number written on the front panel of the product is BT-LH80W. *2: AJ-HPX3000G/HPX2100/HPX2000/ HDC27H/HDX900/AG-HPX500 and AG-HPX502 (AG-HPX500/502 displays SD resolution in black-and-white.)



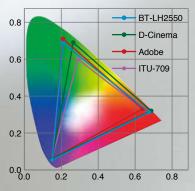


Five Advanced Technologies in the New BT-LH2550

Panasonic

1 A Wide Color Space with Six Color Space Modes

The color space of the BT-LH2550 is 102% that of the NTSC standard, so it exceeds the EBU/SMPTE range that can be displayed by ordinary LCDs. It accurately reproduces colors that are not easily reproduced by conventional displays, including CRTs, to meet the needs of both broadcasters and image production companies, and to work in fields such as digital cinema, CG production, printing, publishing, advertising, and research. The BT-LH2550 also offers three new color space modes in addition to the three conventional modes. The modes are menu switched. Modes can also be assigned to function switches on the front panel for quick and easy changing.





Color Space Comparison (Simulation): The top part shows the color space when set to the ITU-709 mode. The bottom part shows the color space in the WIDE3 (D-Cinema) mode. This screen image is simulated to show the differences in colors when using different modes.

BT-LH2550 Color Space Modes

1.	SMPTE-C:	SMPTE-C standard
2.	EBU:	EBU standard
3.	ITU-709:	ITU-R BT.709 standard
4.	WIDE1:	Adobe color space, gamma of 2.2
5.	WIDE2:	Adobe color space, gamma of 1.8
6.	WIDE3:	D-Cinema color space, gamma of 2.6

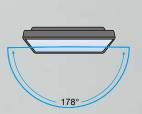
A Space-Saving 25.5-inch Full-HD Monitor

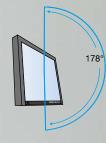
The BT-LH2550 is a full-HD WUXGA (1920 x 1200-pixel) highresolution IPS monitor. It is 10% narrower, 7% shorter, and has a 16% smaller footprint than our previous BT-LH2600W model with the

BT-LH2600W model with the same screen size.

2





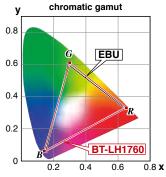


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Faithful Color Reproduction Meets Broadcasting Needs [2550] [1760] [1710]



The BT-LH2550/BT-LH1760/ BT-LH1710 features a new image processing engine. By using a three-dimensional LUT (Look Up Table) for each RGB color and applying precise 10-bit image processing, it achieves faithful color reproduction from low to high brightness levels in all video formats.

s * SMPTE-C in North America.

I/P Conversion Circuit for Motion Response

[2550] [1760] [1710] [80WU]

[2550] [1760] [1710] [80WU]

Jagged noise on diagonal

lines in moving images is a

monitors solve this by

of moving images.

common problem. These LCD

detecting correlations in the

diagonal direction, resulting in

smooth, precise reproduction

A circuit delay time (not including panel delay) of approximately 5 msec^{*1} is achieved by incorporating an I/P converter circuit that converts SD and HD interlace signals with high precision and generates a progressive signal without causing field-length delay. Minimizing the delay between the input signal and monitor output enables the user to confirm footage without any incongruity.

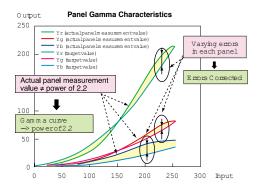
*1: Differs slightly depending on the signal format.

Diagonal Line Compensation

New Diagonal Interpolation

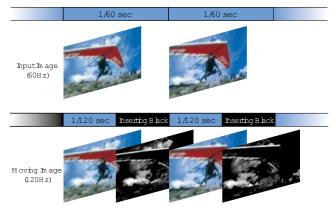
Gamma Compensation for Each Monitor [2550] [1760] [1710]

In order to make the LCD monitor suitable for professional broadcasting applications, compensation is conducted for each monitor in 256 discrete RGB steps, rated gamma properties (g = 2.2) are reproduced, and gradation suitable for broadcasting is achieved. Color temperature of 9300K/6500K/5600K; 3000K to 9300K can be selected with the variable setting.



Double-Speed Drive for Blur-Less Moving Images [1760]

Moving images without any afterimage are achieved by driving at a speed (120 Hz/100 Hz) that is twice the panel speed and inserting a black frame of a certain level between frames. Unlike frame creation methods, this system minimizes afterimages while displaying images faithful to the input signal. This high-performance, high-speed image display function is ideal for broadcast applications.



High-Speed Response

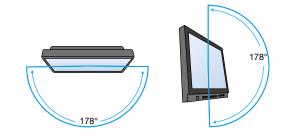
[2550] [1760] [1710]

[2550] [1760] [1710] [900A]

The biggest concern when receiving a video feed is response time in the intermediate gradations. The BT-LH1760 uses double-speed drive to achieve superb response over the entire image, enabling the vivid image display without blurring. The BT-LH2550 and BT-LH1710 feature an overdrive circuit to improve response in intermediate gradations.

Wide Viewing Angle

By using a high-intensity, high-contrast LCD panel, wide viewing angle is achieved in all models. The BT-LH2550 has a 178°, and the BT-LH1760/LH1710 has a 176° horizontal and vertical viewing angle. The BT-LH900A also has a 170° horizontal and vertical viewing angle. Easy viewing is ensured by reducing changes in color due to the viewing angle.



HD/SD Multi-Format

[2550] [1760] [1710] [900A] [80WU]

Compatible with most HD and SD formats, Panasonic LCD monitors are ideal for a wide range of applications in locations around the world.

Useful Display Functions for Professional Use

Various Markers



4:3 Aspect Marker



Safe Area and Center Marker



4:3 Aspect and Safe Area Marker (BT-LH2550/LH1760/LH1710/LH80WU)

Cross Hatch Overlay



Waveform Monitoring



Vectorscope Display



[2550] [1760] [1710] [900A] [80WU]

Various markers can be displayed in both 16:9 and 4:3 aspect ratios.

 Aspect Marker (16:9): 4:3, 13:9, 14:9, CNSCO or VISTA, with background brightness control of Black (0%), Half (50%) or Normal (100%).

 Safe Area Marker (16:9/4:3): 95%, 93%, 90%, 88% or 80%. In 16:9 mode, the BT-LH2550/ LH1760/LH1710/LH80WU can display a superimposed safe area marker corresponding to the aspect marker's angle of view.

• Center Marker (16:9/4:3): ON/OFF. The center marker can be displayed together with another marker, as shown in the example on the left.

Pixel-to-Pixel Display



This function lets you display and confirm video pixels input in HD-SDI without any resizing. In the BT-LH1760/LH1710, this function is useful for image confirmation. When using 1080i, choose from five display areas:

center, right-top, right-bottom, left-top or left-bottom. In the BT-LH80WU, this function facilitates focusing. With 1080/60i input signals, you can check the focus with a screen width equivalent to 19 inches.

Coordination of Multiple Cameras on Split Screens

[2550] [1760] [1710]

[1760] [1710] [80WU]



A frame of video can easily be frozen and displayed as a still image on the left side of the screen. This function can be used to match a live camera with a frame of video shot at an

earlier time or with a different camera. There are two display modes: FULL for displaying and comparing the entire image on the screen, and PART for displaying and comparing only the center part of the images. (FULL-only on LH2550)

Audio Level Meter Overlay



Time Code Display Function



Closed Caption Function



Cine Gamma Compensation

compatibility as a monitor for the Varicam AJ-HDC27H Camcorder. This function supports the production of movies, film-like HDTV programs, and TV commercials.

Focus-in-Red Function for HD Shooting



[2550] [1760] [1710]

The BT-LH2550/LH1760/LH1710 come with an audio embedded function. In addition, the SDI-input audio level can be displayed on the screen with a white skeleton bar meter. Choose from 2-channel/4-channel/ 8-channel/OFF for the display.

[2550] [1760] [1710]

With HD-SDI input, this function displays the value of the VITC, LTC or UB time code, depending on which one has been selected.

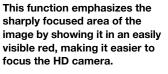
[2550] [1760] [1710]

When an NTSC video signal is input, this function can display close captions (32 characters x 15 lines). The display mode can be selected from CC1, CC2, CC3 or CC4.

[2550] [1760] [1710] [900A]

[80WU]

Equipped with a cine-gamma (F-REC) compensation function for



HV Delay Display and Mono Mode

[2550] [1760] [1710] [900A*1] [80WU*2]

The HV Delay function that displays the video blanking period, and the Mono mode that switches the display to black-and-white can be assigned to function keys for quick access.

*1: LH900A: not assignable on function keys (need to be set on menu). *2: LH80WU: Mono Mode only.

A simple cross hatch overlay can be displayed (at 120* dots interval, fixed) to check the tilt of

[2550] [1760] [1710] [80WU]

the camera. You can also allocate the cross hatch function to any of the three function keys. *80 dots for the BT-LH1760/LH1710. 50 dots for the BT-LH80WU.

[2550] [1760] [1710] [900A] [80WU]

All lines of the input signal is displayed as a waveform for monitoring. The BT-LH2550/ LH1760/LH1710 waveform display can be positioned in any of the four corners of the screen. The BT-LH900A/LH80WU waveform is displayed in the lower right portion of the screen.

[2550] [1760] [1710]

All lines of the input signal is displayed as a vectorscope, and can be positioned in any of the four corners of the screen.

Compact, Ergonomic Design [2550] [1760] [1710] [900A] [80WU]

The interface section and operation section are integrated into the compact body. Taking advantage of the slim size and light weight of the LCD panel, this integrated design enhances setup flexibility and simplifies operation.

Detachable Control Panel Adds Versatility [900A]

The control panel is separated from the monitor, making the BT-LH900A suitable for a wide range of applications, including use as a monitor or viewfinder.

Function Kevs [2550] [1760] [1710] [900A] [80WU]

Each of the function keys on the front panel can be assigned with a function selected from various display and switchover functions* to enable one-touch display ON/OFF or mode change. These function buttons speed operation and customize the functions to the individual user's needs.

Functions Assignable to Function Keys (for the BT-LH1760*) HV Delay/Autosetup/Blue Only/Gamma Select/ SD Aspect/Scan/Sub Window/WFM/Vector/Marker/ Pixel to Pixel/Pixel Position/Level Meter/Cross Hatch/Mono/ Time Code/Closed Caption/Undef

* Assignable functions vary depending on the model.

Production Tough for Field Use [1760] [1710] [900A] [80WU]



Panasonic BT-Series LCD monitors are built with an aluminum diecast frame. This superior build quality has been proven in the field to be production tough.

* Front section only for the BT-LH1760/ LH1710.

SDI and Component Input

[2550] [1760] [1710] [900A] [80WU]

All five monitors allow for SDI with automatic switching between HD and SD. The BT-LH2550/LH1760/LH1710 are equipped with two SDI inputs and one SDI output. These models are also equipped with a component input (Y, PB, PR, RGB switching), Y/C, and composite. RGB is compatible with PC input. The BT-LH900A is equipped with two SDI inputs and one SDI output, one component input (Y, PB, PR or RGB switching), and one composite input. The BT-LH80WU is equipped with SDI (HD/SD) and Component (Y, PB, PR) input.

DVI-D Terminal (HDCP supported)

[2550] [1760] [1710]

The BT-LH1760 is equipped with a DVI-D input terminal for connection to a digital device with DVI-D output. It also supports HDCP, so a device with an HDMI terminal, such as a BD/DVD player, can be connected using a commercially available conversion cable or adapter.

* DVI-A (analog) and DVI-DL (Dual Link) are not supported.

External Remote Compatibility

[2550] [1760] [1710] [900A] [80WU]

The standard RS-232C (9-pin) and GPI (9-pin) remote input terminals allow the monitor to be operated by an external device.

Tally Lamps

[2550] [1760] [1710] [900A] [80WU]

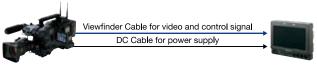
The front panel has red and green tally lamps. The BT-LH80WU also has a rear tally lamp for added convenience when using as a viewfinder.

Viewfinder Connector

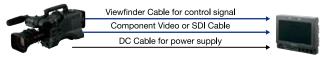
[80WU]

Equipped with a 15-pin viewfinder terminal, the BT-LH80WU can also be used as a viewfinder* for compatible Panasonic camerarecorders - AJ-HPX3700, AJ-HPX2700, AJ-HPX3000, AJ-HDX900, AJ-HDC27H, AJ-HPX2000 (US model), AJ-HPX2100 (European/ Asian model), AG-HPX500* and AG-HPX502* (Asian model). You can also run the BT-LH80WU on DC power supplied by these camera-recorders. Connection is easy, requiring only a viewfinder cable and DC power cable, supplied as the optional BT-CS80G.

*Optional hardware is required for mounting to a camera-recorder.



AJ-HPX3700G/HPX2700G/HPX3000G/HPX2000/HPX2100/HDC27H/HDX900 BT-LH80WU



AG-HPX500/502

Stereo Speakers

[1760] [1710]

[1760] [1710]

[2550] [1760] [1710]

BT-LH80WU

The built-in speakers on the right and left sides of the screen let you confirm stereo sound without having to connect external speakers.

Headphone Jack

The BT-LH2550/LH1760/LH1710 are provided with a headphone jack.

Low Consumption Current

The low-current-consuming LCD provides extra flexibility for use in an OB van or in the studio, and provides high cost-effectiveness. The consumption current of the BT-LH1760 operating on AC power is about 50% lower than our previous model.

Fanless drive and its quiet operation make these models ideal for use in editing studios or MA rooms.

When no signal is received for 60 continuous seconds, the Power

DC and Low Power Operation

DC operation (Anton Bauer/DC IN) makes the BT-LH900A and BT-LH80WU ideal for use outdoors. Power consumption is very low, despite their HD/SD compatibility.

Rack Mounting

[1760] [1710] [900A] [80WU]

These four models can be mounted in a 19" rack. The BT-LH80WU and BT-LH900A allow side-by-side rack mounting when optional rack mounting hardware is used. The BT-LH1760 and BT-LH1710 use the optional BT-MA1710G adaptor for rack mounting.

Wall Mounting

The optional wall mounting hardware (BT-WMA17G or BT-WMA26G, sold separately) allows wall mounting of these thin, lightweight LCD monitors.

Protective Panel

The optional protective panel (BT-PRP17G) protects the LCD panel from environmental elements such as sand and dust in outdoor use.

[2550] [1760] [1710]

Fanless Drive

Power Save Mode

Save Mode is activated to minimize power consumption.

[900A] [80WU]

[2550] [1760] [1710]

[1760] [1710]

[2550] [1760] [1710]

Front and Rear Panels and Interfaces



BT-LH1710



BT-LH900A



BT-LH80WU



BT-LH2550 Rear Panel



BT-LH1760 Rear Panel



BT-LH1710 Rear Panel



BT-LH900A Rear Panel



BT-LH80WU Rear Panel

Supported Video Format

	BT-LH2550/LH1760/LH1710									
Input Signal	VIDEO	SDI 1	SDI 2	YP B P R (*1)	RGB-VIDEO (*1)	DVI-VIDEO (*2)				
NTSC										
PAL										
480/59.94i										
480/59.94p										
576/50i										
576/50p										
720/50p										
720/59.94p										
720/60p										
1035/59.94i		(*3)	(*3)	(*3)	(*3)					
1035/60i		(*4)	(*4)	(*4)	(*4)					
1080/23.98PsF										
1080/24PsF										
1080/23.98p										
1080/24p										
1080/25p										
1080/29.97p										
1080/30p										
1080/50i										
1080/50p										
1080/59.94i										
1080/60i										
1080/59.94p										
1080/60p										

Supported *1: One pair of terminals is provided for YPBPR and RGB input. The input signal type is selected in the menu. For RGB, the input signal type is selected from VIDEO or COMP.
*2: When a DVI-D input terminal is used, the input signal type is selected from VIDEO or COMP. *3: When a 1035/59.94i signal is input, images are displayed in 1080/59.94i. In that case, the displayed markers are for 1080/59.94i. *4: When 1035/60i signal is input, images are displayed in 1080/60i. In that case, the displayed markers are for 1080/59.94i.

	BT-LI	12550	BT-LH1760/LH1710			
Input Signal	RGB-COMP. (*1)	DVI-COMP. (*2)	RGB-COMP. (*1)	DVI-COMP. (*2)		
640 x 400 (70Hz)						
640 x 480 (60Hz)						
640 x 480 (75Hz)						
640 x 480 (85Hz)						
800 x 600 (60Hz)						
800 x 600 (70Hz)						
800 x 600 (75Hz)						
800 x 600 (85Hz)						
1024 x 768 (60Hz)						
1024 x 768 (70Hz)						
1024 x 768 (75Hz)						
1024 x 768 (85Hz)						
1280 x 768 (50Hz)						
1280 x 768 (60Hz)						
1280 x 768 (75Hz)						
1280 x 1024 (60Hz)						
1600 x 1200 (60Hz)						
1920 x 1200 (60Hz)						

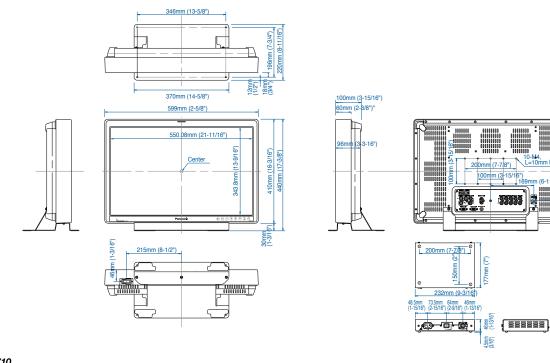
		BT-L	H900A			E	T-LH80W	J	
Input Signal	VIDEO	SDI	YPBP R (*1)	RGB (*1)	VIDEO	VF-VIDEO (*2)	VF-YPBPR (*2)	YP B P R	SDI
NTSC									
PAL									
480/59.94i									
480/59.94p									
576/50i									
576/50p									
720/50p									
720/59.94p									
720/60p									
1035/59.94i		(*3)	(*3)	(*3)			(*3)	(*3)	(*3)
1035/60i		(*4)	(*4)	(*4)			(*4)	(*4)	(*4)
1080/23.98PsF									
1080/24PsF									
1080/23.98p									
1080/24p									
1080/25p									
1080/29.97p									
1080/30p									
1080/50i									
1080/59.94i									
1080/60i									

: Supported *1: One pair of terminals is provided for YPBPR and RGB input. The input signal type is selected in the menu. For RGB, the input signal type is selected from VIDEO or COMP. *2: When a DVI-D input terminal is used, the input signal type is selected from VIDEO or COMP.

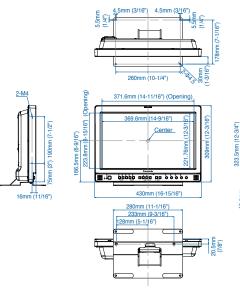
: Supported *1: One pair of terminals is provided for YPBPR and RGB input. The input signal type is selected in the menu. For VF, the input signal type is selected from VIDEO or YPBPR. *2: When a 1035/59.94i signal is input, images are displayed in 1080/59.94i. In that case, the displayed markers are for 1080/59.94i. *3: When 1035/60i signal is input, images are displayed in 1080/60i. In that case, the displayed markers are for 1080/59.94i.

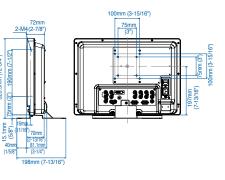
Dimensions

BT-LH2550



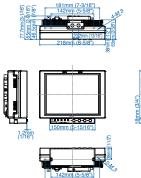
BT-LH1760/LH1710

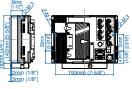


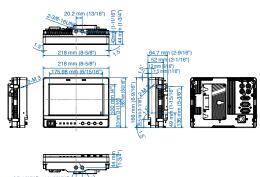


BT-LH80WU

BT-LH900A







-M4

(6-11/1

L=10n

3/8-16UNC→1/4-20UNC Can remove adapter (13/16") 12:30:10UNC

Specifications

			11700			
	BT-LH2550	BT-Li	11760	BT-LH1710		
GENERAL Power Requirement:	DC 24 V 4.5 A, DC 5 V 0.03 A	AC 100 V to 240 V 50/60 Hz, 0	6 A to 0 3 A	AC 100 V to 240 V 50/60 Hz, 0.6 A to 0.3 A		
	AC adapter In: 100 V to 240 V, 50/60 Hz, 1.6 A to 0.6 A	DC 12 V (11 V to 17 V) 4.0 A		DC 12 V (11 V to 17 V) 4.0 A		
Dimensions (WxHxD):	599 mm x 440 mm x 220 mm (23-5/8" x 17-3/8" x 8-11/16",Including stand)	430 mm x 323.5 mm x 198mn (16-15/16" x 12-3/4" x 7-13/16		430 mm x 323.5 mm x 198mm (16-15/16" x 12-3/4" x 7-13/16", Including stand)		
	599 mm x 410 mm x 100 mm	430 mm x 309 mm x 81.1mm	-	430 mm x 309 mm x 81.1mm		
	(23-5/8" x 16-3/16" x 3-15/16", Main unit only; not including stand)	(16-15/16" x 12-3/16" x 3-1/4", Main unit only; not including	stand)	(16-15/16" x 12-3/16" x 3-1/4", Main unit only; not including stand)		
	AC adapter: 232 mm x 50.5 mm x 177 mm (9-3/16" x 2" x 7")	·······	,	······		
Weight:	9.7 kg (21.4 lbs) (Including stand),	7.1 kg (15.7 lbs) (Including sta		7.1 kg (15.7 lbs) (Including stand),		
	8.2 kg (18.1 lbs) (not including stand) AC adapter: 1.7 kg (3.7 lbs)	6.2 kg (13.7 lbs) (not including	j stand)	6.2 kg (13.7 lbs) (not including stand)		
Operating Temperature:	+5°C to +35°C (41°F to 95°F)	+5°C to +35°C (41°F to 95°F)		+5°C to +35°C (41°F to 95°F)		
Operating Humidity:	20 % to 80 % (non dew)	20 % to 80 % (non dew)		20 % to 80 % (non dew)		
Storage Temperature:	-20°C to +60°C (-4°F to 140°F)	-20°C to +60°C (-4°F to 140	°F)	—20°C to +60°C (—4°F to 140°F)		
		170: 1		47.01		
Panel Size:	26 inch 16:9	17.0 inch 15:9		17.0 inch		
Aspect Ratio: Double Speed Drive:		Yes		15:9		
100Hz/120Hz)						
Resolution:	1,920 x 1,200 pixels (WUXGA)	1,280 x 768 pixels (WXGA)		1,280 x 768 pixels (WXGA)		
Display colors:	Approx. 16,770,000 colors	Approx. 16,770,000 colors		Approx. 16,770,000 colors		
Viewing Angle:	178° (both horizontal and vertical)	178° (both horizontal and ver	tical)	178° (both horizontal and vertical)		
CONNECTORS						
Video input/output:	Video: BNC x 2, (with through-out connector) Y/PB/PR. RGB: BNC x 6 (with through-out connector x 3)	Video: BNC x 2, (with through Y/PB/PR. RGB: BNC x 6 (with thr		Video: BNC x 2, (with through-out connector) Y/PB/PR. RGB: BNC x 6 (with through-out connector x 3)		
	SYNC/HD: BNC x 2(with through-out connector x 1)	SYNC/HD: BNC x 2(with throu		SYNC/HD: BNC x 2(with through-out connector x 1)		
	VD: BNC x 2(with through-out connector x 1)	VD: BNC x 1	-	VD: BNC x 1		
	SDI: BNC x 3 (switched-out connector x 1) DVI-D (HDCP, TMDS Single Link): DVI-D x 1	SDI: BNC x 3 (switched-out co DVI-D (HDCP): DVI-D x 1	nnector x 1)	SDI: BNC x 3 (switched-out connector x 1) DVI-D (HDCP): DVI-D x 1		
	Vertical frequency: 50.0 Hz to 60.0 Hz	Vertical frequency: 50.0 Hz to	60.0 Hz	Vertical frequency: 50.0 Hz to 60.0 Hz		
	Horizontal frequency: 31.5 KHz to 67.5 KHz	Horizontal frequency: 31.5 KH		Horizontal frequency: 31.5 KHz to 67.5 KHz		
	Dot clock: 25 MHz to 165 MHz	Dot clock: 25 MHz to 165 MHz	!	Dot clock: 25 MHz to 165 MHz		
Audio input:	Pinjack x 2 (stereo)	Pinjack x 2 (stereo)		Pinjack x 2 (stereo)		
Headphone output:	M3 stereo mini jack x 1	M3 stereo mini jack x 1		M3 stereo mini jack x 1		
Remote:	GPI: D-SUB, 9 pin RS-232C: D-SUB, 9pin	GPI: D-SUB, 9 pin RS-232C: D-	SUB, 9 pin	GPI: D-SUB, 9 pin RS-232C: D-SUB, 9 pin		
External DC power input:	XLR, 4pin (Supplied AC adapter only)	XLR, 4pin		XLR, 4pin		
SIGNAL LEVEL						
Video:	SYNC signal level: 0.3 Vp-p to 4.0 Vp-p HD/VD Signal level: TTL level	SYNC signal level: 0.3 Vp-p to HD/VD Signal level: TTL level	4.0 Vp-р	SYNC signal level: 0.3 Vp-p to 4.0 Vp-p HD/VD Signal level: TTL level		
Audio:	Audio input signal level: 0.5 Vrms	Audio input signal level: 0.5 V		Audio input signal level: 0.5 Vrms		
	Head phone output: 32 Ω , Variable Level	Speaker output: $0.5 \text{ W} + 0.5 \text{ W}$ Head phone output: 32Ω , Var		Speaker output: 0.5 W + 0.5 W Head phone output: 32 Ω, Variable Level		
SDI Embedded Audio:	HD-SDI : SMPTE299M standard, 48 kHz, 8CH	HD-SDI : SMPTE299M standar		HD-SDI : SMPTE299M standard, 48 kHz, 8CH		
	synchronous/asynchronous	synchronous/asynchronous		synchronous/asynchronous		
	SD-SDI : SMPTE272M standard, 48 kHz, 4CH synchronous	SD-SDI : SMPTE272M standard synchronous	1, 48 kHz, 4CH	SD-SDI : SMPTE272M standard, 48 kHz, 4CH synchronous		
OTHERS						
Supplied Accessories:	AC adapter, Power cord, Power cord hook, Screw,	Power cord, power cord hook	screw	Power cord, power cord hook, screw		
	DC cable					
Option:	Wall Mount Adaptor	Rack mount adaptor, Wall Mo Protective Panel	unt Adaptor,	Rack mount adaptor, Wall Mount Adaptor, Protective Panel		
	BT-LH900A			BT-LH80WU		
GENERAL						
Power Requirement:	DC 12 V (11 V to 17 V), 1.45 A		DC 12 V (11 V to 17 V), 1.5 A			
Dimensions (WxHxD):	218 mm x 176 (4U) mm x 65 mm (8-5/8" x 6-15/16" x 2-9/16	")	218 mm x 166 mm x 64.7 mm (8-5/8" x 6-9/16" x 2-9/16")			
Weight:	2.0 kg (4.4 lbs)		1.5 kg (3.3 lbs)			
Operating Temperature:	+0°C to +40°C (32°F to 104°F)		+0°C to +40°C (32°F to 104°F)			
Operating Humidity:	10 % to 85 % (non dew)		10 % to 85 % (non dew)			
			10 % to 85 % (non dew)	-20°C to +60°C (-4°F to 140s°F)		
storage lemperature:				ls°F)		
	-20°C to +60°C (-4°F to 140°F)			s°F)		
LCD PANEL	20°C to +60°C (4°F to 140°F) 8.4 inch			s°F)		
CD PANEL Panel Size:	1		20°C to +60°C (4°F to 140 7.9 inch (Effective display 16:9 (Effective display area)			
LCD PANEL Panel Size: Aspect Ratio: Resolution:	8.4 inch 4:3 1,024 x 768 pixels (XGA)		20°C to +60°C (4°F to 140 7.9 inch (Effective display 16:9 (Effective display area) 800 x 450 pixels (Effective dis			
CD PANEL Panel Size: Aspect Ratio: Resolution: Display colors:	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors					
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: Jiewing Angle:	8.4 inch 4:3 1,024 x 768 pixels (XGA)		20°C to +60°C (4°F to 140 7.9 inch (Effective display 16:9 (Effective display area) 800 x 450 pixels (Effective dis			
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: Viewing Angle: CONNECTORS	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical)					
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: Viewing Angle: CONNECTORS	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical) Video: BNC x 2 (with through-out connector)			olay area)		
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: Viewing Angle: CONNECTORS	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical) Video: BNC x 2 (with through-out connector) Y/PB/PR. RGB: BNC x 3 SYNC: BNC x 1			olay area)		
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: Viewing Angle: CONNECTORS	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical) Video: BNC x 2 (with through-out connector)			olay area)		
Storage Temperature: LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: Viewing Angle: CONNECTORS Video input: Remote:	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical) Video: BNC x 2 (with through-out connector) Y/Pb/PR. RGB: BNC x 3 SYNC: BNC x 1 SDI (BNC) x 3 (switched out connector x 1)			olay area) s with Video)		
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: Viewing Angle: CONNECTORS Video input: Remote:	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical) Video: BNC x 2 (with through-out connector) Y/PB/PR. RGB: BNC x 3 SYNC: BNC x 1 SDI (BNC) x 3 (switched out connector x 1) GPI: D-SUB, 9 pin RS-232C: D-SUB, 9 pin			olay area) s with Video)		
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: //ewing Angle: CONNECTORS //ideo input: Remote: External DC power input:	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical) Video: BNC x 2 (with through-out connector) Y/Pb/PR. RGB: BNC x 3 SYNC: BNC x 1 SDI (BNC) x 3 (switched out connector x 1)			olay area) s with Video)		
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: //ewing Angle: CONNECTORS //ideo input: Remote: External DC power input: DTHERS	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical) Video: BNC x 2 (with through-out connector) Y/PB/PR. RGB: BNC x 3 SYNC: BNC x 1 SDI (BNC) x 3 (switched out connector x 1) GPI: D-SUB, 9 pin RS-232C: D-SUB, 9 pin			olay area) s with Video) 5UB, 9 pin		
LCD PANEL Panel Size: Aspect Ratio: Resolution: Display colors: Viewing Angle: CONNECTORS Video input:	8.4 inch 4:3 1,024 x 768 pixels (XGA) Approx. 16,770,000 colors 170° (both horizontal and vertical) Video: BNC x 2 (with through-out connector) Y/PB/PR. RGB: BNC x 3 SYNC: BNC x 1 SDI (BNC) x 3 (switched out connector x 1) GPI: D-SUB, 9 pin RS-232C: D-SUB, 9 pin XLR, 4 pin			olay area) s with Video) 5UB, 9 pin er battery (Built-in)		

Optional Accesories



BT-WMA26G(Indoor use only) Wall Mount Adaptor for BT-LH2550



BT-WMA17G(Indoor use only) Wall Mount Adaptor for BT-LH1760/LH1710



BT-PRP17G Protective Panel for BT-LH1760/LH1710



BT-MA1710G Rack Mount Adaptor for BT-LH1760/BT-LH1710



BT-MA900G Rack Mount Adaptor for BT-LH900A



BT-YA80G SDI Input Unit (For BT-LH80W only. The BT-LH80WU is already equipped with the BT-YA80G.)



BT-CS80G VF Cable set for BT-LH80W/ LH80WU (Viewfinder Cable, DC Cable)



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	Peru	+51 1 614 0000						
	Philippines	+63 2 633 6162						
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	Portugal	+351 21 425 77 04						
	Puerto Rico	+1 787 750 4300						
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	Saudi Arabia	+96 626444072						
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JQA-0443



Factories of Systems Business Group have received ISO14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)

SP-LCDLUPE4