



HLM-1751WR 17-inch HDTV/SDTV Full HD Pixel Multi-format LCD Color Monitor

RoHS

High-End Broadcast LCD Monitor

NEW



The HLM-1751WR employs a 17-inch full 1920x1080 pixel 10-bit resolution LCD panel, and achieves compact size, light weight, and low power consumption. It supports 3G/HD/SD-SDI inputs, also DVI-D and VBS inputs as standard. By employing a full 1920x1080 pixel 10-bit LCD panel which has wide viewing angle, high brightness, high contrast, quick motion response, and superb color reproduction, the HLM-1751WR achieves one-by-one pixel allocation without resizing and superb gradation characteristics for a wide range of broadcast applications. Also, the monitor supports DC power input, allowing for outdoor operation.



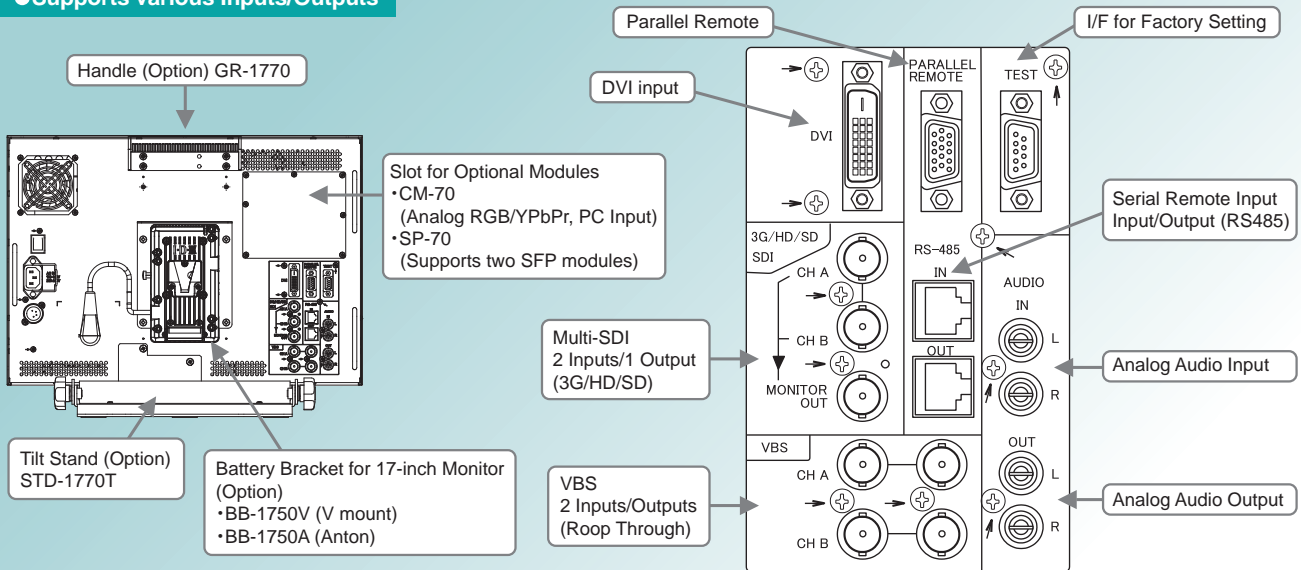
17-inch Full HD	1920x1080 pixel	Viewing Angle 176degree(H/V)	Contrast Ratio 1000:1	AC:45W (max) DC:39W (max)			
VBS Input	Y, Pb, Pr, RGB Input	3G/HD/SD(4:2:2) -SDI Input	Embedded Analog Audio Output	Embedded Audio Meter	DVI-D Input	Analog PC Input	
Analog Audio 2ch Input	5.1ch Surround Down-mix	ASP-100					
4:3/16:9	Remote (Parallel)	Remote (Wireless)	Remote (Mouse)	Remote (RS485)	Marker	User Marker (10 scenes)	
Shadow	7-Test Signal Generator	10-Color temperature-memory	Stereo Speaker	Stereo Headphone	VITC Display	WFM Monitoring Display	
Split Screen/ Full Screen Comparison	Dot-by-Dot Display	Vector Scope Display	Mouse Menu Control	USB Memory (Data/Picture)	IMD Display	2Times/4Times Zoom	
Mix Test Signal	Closed Caption						
W428xH301xD96mm (*16.9x*11.9x*3.8inches)	7RU	Approx 6.5kg (14.33lbs)					

*1 Under development
*2 Supports after Rev1
* Excluding Options and Stand

▲ Option

Evolutionary Features for HLM-1751WR Full-HD LCD Monitor

● Supports various Inputs/Outputs



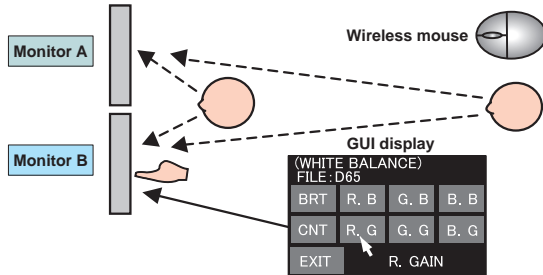
Common features for HEM-1770WR, HEM-2570W, HLM-1751WR OLED/LCD Monitors

White balance adjustment Assist Function

The monitors are equipped with various ways to adjust the white balance easier.

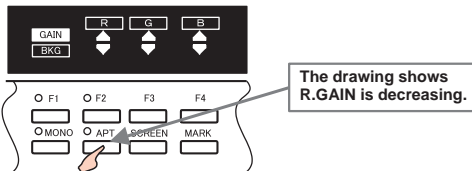
● Adjustment by wireless Mouse

A GUI Display with pointer for white balance setting will appear on the screen, and the color temperature can be adjusted by using a wireless mouse.



● Adjustment by assignment of the front panel controls

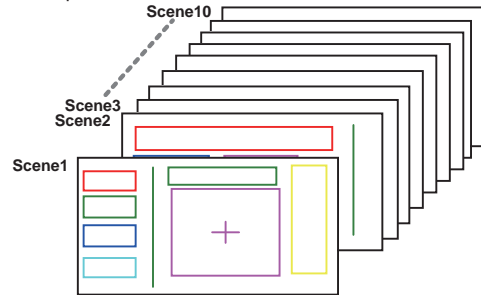
By assigning the color temperature adjustment functions to each of 8 controls on the front panel, white balance can be done easily.



Use Maker Function (Patent Pending)

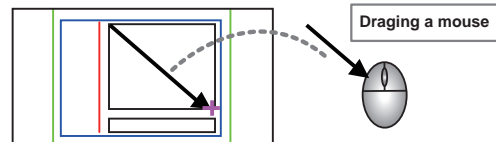
● 10 different Scene files for User Markers

It is possible to create User Marker displays, up to 10 scenes. Each scene can be set in real time by users with the "FUNCTION" switch on the front panel.



● Easy Drawing with USB Mouse

Marker drawing with a USB mouse is possible. For precise adjustment, it is possible to adjust down to 1 pixel out of 1920x1080 pixels. Also, numerical management is provided with XY coordinate data. In addition, by saving the files to USB memory, the marker data can be copied to another HEM series monitor.



High performance 12-BIT VIDEO PROCESSING Engine

In order to reproduce true 10-bit smooth gradation, a cutting-edge 12-bit video processor is incorporated. It greatly increases gradation levels, resulting in much smoother and more natural images, for example in the skin tone or the reproduction of clouds.

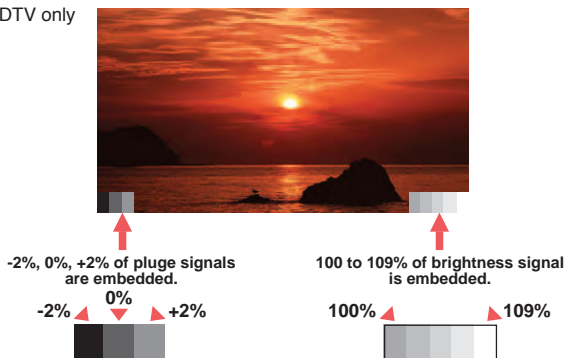


MIX TEST SIGNAL Function

It is possible to mix the live picture with a reference TEST signal generated by the monitor. This provides a good reference for black and white levels which could otherwise be difficult to confirm with certainty due to the front panel adjustment of Contrast and Brightness.

Regarding the peak level of the input signal, users can confirm an overload with the Alarm LED (OVER RANGE) on the Front panel.

※HDTV only



Zoom Display Function

This function is to enable 2X/4X magnification without scaling of the image. It is useful to confirm errors in the signal, such as dead pixels of a CCD camera and to check in the detailed sections of the picture.

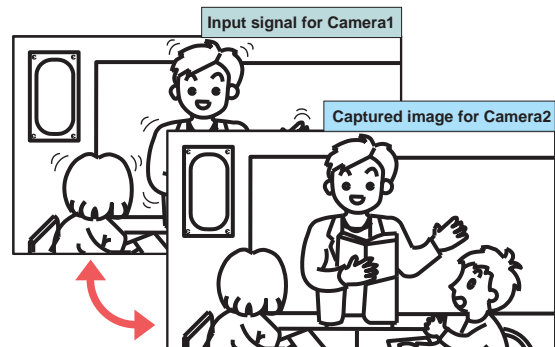


Full Screen Capture Function

By capturing a full screen (1920x1080), it is possible to compare a live image with a captured still image. Switching between live and still can be done manually or automatically. By copying a captured image to USB memory, users can set the same viewing angle as in the prior shot referring to the captured still image.

● Manual Switching

By capturing the image of one of two cameras, it allows users to switch and compare a captured still image with the live image of the other camera. Even if the two video images are not synchronized, switching of images can be done smoothly without any shock. It is useful for luminance or color tone adjustment.



● Auto Switching

The time interval of auto switching can be changed per frame (1/2/3/5/10/30 frame). By storing the captured still images in USB memory, and then downloading the image, users can set the same viewing angle and same color as in the prior shot. It can be helpful for "frame-by-frame" shooting.



ASP-100

Auto Setup Probe

The ASP-100 is an auto setup probe that allows automatic white balance adjustment for a selected color temperature and measurements of color temperature and luminance on the HLM/HEM Series of LCD/OLED Monitors and the HTM-1990R CRT monitor.

For HLM Series Monitors



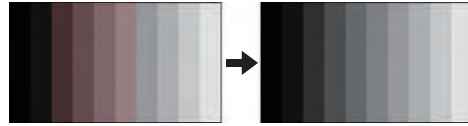
Simply connect the ASP cable to USB interface

Monitor	Integrated software		Integrated Rev# of ASP-100
	MPU	FPGA	
HLM-904WR/WCS	V1.20~		
HLM-1704WR/WS	V0.94~		
HLM-1750WR	V1.02~		
HLM-2450W	V2.02~	V20~	
HLM-2450WA	V0.94~		
HLM-2450WB	V0.76~		
HLM-3250W	V2.02~	V20~	
HLM-1504WR			
HLM-905WR/WCS			after Rev1
HLM-907WR			after Rev1
HLM-1751WR			after Rev1
HEM-1770WR			after Rev2
HEM-2570W			after Rev2

Features

(1) Automatic white balance adjustments by color temperature file

The probe automatically adjusts white balance at multiple luminance levels to one of 4 user selectable color temperature files (6500K, 9300K, and 2 user files).



(2) Measurement Mode

This Mode allows measurement of color temperature on the monitor, storing the measured data and making adjustments on multiple monitors for same color temperature.

(3) PC-free operation

Automatic adjustment software is programmed in a monitor. Simply connect the ASP cable to the monitor USB connector. No personal computer is required.

Specifications

ASP-100	Auto setup	: 6500K, 9300K, User files (2 files)
	Measurement	: Luminance and chromaticity (x, y)
	Size	: 71(W)×111(H)×35(D)mm
	Weight	: 100g
	Interface	: USB2.0
ASP-CONV	Size	: 82(W)×64(H)×32.3(D)mm
	Weight	: 130g
	Interface	: USB2.0, RS-232C

Remote Controller



SRC-400
Serial Remote Controller



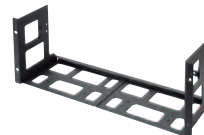
RCT-30A
Infrared Remote Controller

Auto Setup Probe



ASP-100
Auto Setup Probe Unit

Rackmount Adaptor



DR-904
9-inch Rack-mount Adaptor



BP-920
Blank Panel for DR-904

Stand



STD-1770
Stand



STD-1770T
Tilt Stand



STD-1722M
VESA Arm Stand



STD-900
Stand



STD-920T
Tilt Stand

Battery Bracket



BB-1750A
Battery Bracket
(Anton Bauer Type)



BB-1750V
Battery Bracket
(V-Mount Type)



BB-904A
Battery Bracket
(Anton Bauer Type)



BB-904V
Battery Bracket
(V-Mount Type)

Handle



GR-1770
Handle

Carrying Case/Hood



CC-1751
Hard Carrying Case



CC-5003/7002
Hard Carrying Case



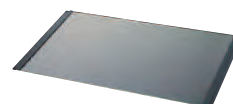
SO-016
Soft Carrying Case



MH-1750
Collapsible Hood



MH-904
Collapsible Hood



PP-1751
LCD Protection Cover



PP-904
LCD Protection Cover

Model	Description	HLM-2570W	HLM-1770WR	HLM-1751WR	HLM-3250W	HLM-2450WB	HLM-905WR	HLM-5003WR	HLM-7002WR	Remarks
Remote Controller										
RCT-30A	Infrared Remote Controller	●	●	●	●	●				
SRC-400	Serial Remote Controller	●	●	●	●	●	●			Controls up to 96 monitors with loop through connection
Video/Audio Module										
SP-70	SFP I/F Module	●	●	●						Expansion module to equip the SFP I/F module. Two SFP modules can be equipped. *can not co-reside with CM-70
CM-70	Analog RGB/YPbPr/PC Input Module	●	●	●						1ch Y, P _b , P _r or RGB Input, 1ch loop through EXT SYNC, 1ch Analog PC Input. *can not co-reside with SP-70
CM-175	Analog Component and PC Input Module					●				1ch Y, P _b , P _r or RGB Input, 1ch loop through EXT SYNC* ¹
CM-240	Analog Component and PC Input Module				●					1ch Y, P _b , P _r /RGB, 1ch Analog PC Input, 1ch EXT SYNC* ¹
D3G-240A	3G-SDI Support Multi-format HD-SDI Input Module (incl. Analog Audio Output)				●	●				2ch Input and 1ch Loop-through, 2ch (ch: Menu Select) Embedded Analog Output (XLR 5pin)* ¹
D3G-240D	3G-SDI Support Multi-format HD-SDI Input Module (incl. AES/EBU Audio Output)				●	●				2ch Input and 1ch Loop-through, 8ch Embedded AES/EBU Output * ¹
EA-240A	Embedded Analog Audio Output Module				●	●				2ch (ch: Menu Select) Embedded Analog Output(XLR 5pin)* ¹
EA-240D	Embedded AEX/EBU Audio Output Module				●	●				8ch Embedded AES/EBU Output * ¹
Auto Setup Probe										
ASP-100	Auto Setup Probe Unit	●	●	●	●	●	●			* ³
Rackmount Adaptor										
DR-904	Dual Rack Mount Adaptor						●			4RU Height
BP-920	Blank Panel for DR-904/920						●			
RS-1770	19-inch Rack Mount Adaptor	●	●							Fixed type, 7RU height
RS-1770T	19-inch Rack Mount Adaptor with Tilt Mechanism	●	●							4-Step Angle, 7RU height
RS-2450T	Rackmount Adaptor				●					Fixed Tilt Angle Type
STAND										
STD-1770	Stand	●	●							
STD-1770T	Stand with Tilt Mechanism	●	●							Tilt (Axis:Center of Monitor):Up 90 degree/Down 10 degree
STD-1722M	VESA Arm Stand	●	●							
STD-240T	Stand with Tilt Mechanism				●					Tilt (Axis:Center of Monitor):Up 45 degree/Down 8 degree* ²
STD-900	Stand						●			Tilt Angle:Up 14 degree
STD-904	Stand						●			
STD-920T	Stand with Tilt Mechanism						●			Tilt Angle:Up 10 degree/Down 10 degree
Tripod Mount Plate										
AT-900	Tripod Mount Plate						●			1/4 & 3/8 inch hole plate
Handle										
GR-1770	Handle	●	●							
GR-904	Handle						●			
LCD Protection Cover										
PP-1751	Protection Cover for HLM-1715WR			●						Anti-Reflection Coating
PP-904	Protection Cover for HLM-904WR						●			Anti-Reflection Coating
Battery Bracket										
BB-1750A	Battery Bracket (Anton Bauer Type)	●	●							
BB-1750V	Battery Bracket (V-Mount Type)	●	●							
BB-904A	Battery Bracket (Anton Bauer Type)						●			
BB-904V	Battery Bracket (V-Mount Type)						●			
Hood										
MH-2570	Folding Hood	●								
MH-1750	Folding Hood	●	●							
MH-904	Folding Hood						●			
Carrying Case										
CC-E25	Hard Carrying Case	●								
CC-E17	Hard Carrying Case	●								
CC-3250	Hard Carrying Case				●					
CC-2450B	Hard Carrying Case					●				
CC-1751	Hard Carrying Case		●							
CC-905	Hard Carrying Case						●			
SO-016	Soft Carrying Case						●			
CC-5003	Hard Carrying Case							●		
CC-7002	Hard Carrying Case								●	

Note

- *1: Either one optional module can be installed. Up to 4ch SDI input is available if D3G-240A or D3G-240G is installed.
- *2: Standard Tilt Stand has a tilt mechanism with axis at bottom of monitor (up 15 degree and down 8 degree).
- *3: Please refer page9 regarding integrated software for each monitors and Rev# for ASP-100.

Specifications

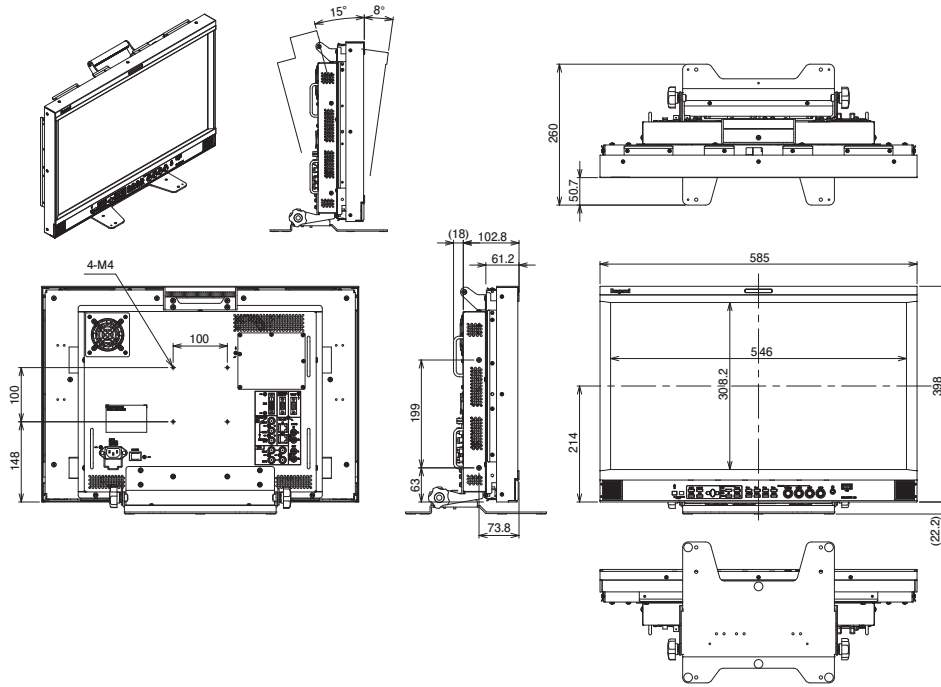


		HEM-2570W	HEM-1770WR	HLM-1751WR	
Display Panel	Type of Panel	OLED		LCD / LED Backlight	
	Number of Pixel	Effective Number of Pixel	Full HD (16:9) 1920x1080		
		Number of Pixel in 16:9	1920x1080		
	Display Size (Diagonal)	Display Size(Viewing Area)	24.5"	16.5"	
		in 16:9	24.5"	16.5"	
	Brightness (Specification of Panel)	250cd/m ² (Max Brightness)			450cd/m ²
	Contrast Ratio (typical)	5000:1 *1			1000:1
Display Color	1.07 billion colors / 10bit				
View Angle (up & down, left & right typical)	178°			176°	
Rating & Performance	Power Requirement	AC	AC100-120V / AC200-240V		
		DC	x	DC12V (10.5-18V)	
	Power Consumption (max)	AC (Standard Spec)	135W	81W	45W
		DC (Standard Spec)	—	76W / 6.3A	39W / 3.3A
	Dimensions WxHxD mm (inch)	585x398x102.8 (23.1x15.7x4.1)	428x301x98 (16.9x11.9x3.9)	428x301x96 (16.9x11.9x3.8)	
	Rack-mountable Space	9U	7U	7U	
	Weight kg(lbs) *Excluding stand	Approx 11.4kg (25.13 lbs)	Approx 7.5kg (16.53 lbs)	Approx 6.5Kg (14.33 lbs)	
Supporting Formats	SDTV	480i / 59.94, 575i / 50			
	HDTV	1035i/59.94/60, 1080i/50/59.94/60 1080p/23.98/24/25/29.97/30/50/59.94/60 1080psF/23.98/24/29.97/30 720p/23.98/24/25/29.97/30/50/59.94/60			
Video	Input/Output	Multi SDI	● 2 Inputs, 1 Output		
		3G HD-SDI *2	●		
		VBS	● 2 Inputs/Outputs (TH)		
		RGB/YPbPr	▲ 1 Input (CM-70)		
		Analog PC	▲ 1 Input (CM-70)		
		DVI-D	● 1 Input		
		HDMI	▲ 1 input (SP-70+SPF HDMI Module) (HDCP Support)		
External Sync	▲ 1 Input (CM-70)				
Audio	Input	Analog Audio Input	● (RCAx2)		
	Output	Embedded Analog 2ch Output	● (RCAx2)		
		Embedded AES/EBU 8ch Output	x		
	Display	Embedded Audio Level Meter Display	● (8ch)		
	Speaker	Rating Output	1W+1W		
		Analog Audio Output	● (Stereo)		
	Embedded Digital Audio Output	● (Stereo)			
	5.1ch Surround Down-mix Output	●			
	Headphone Output	●			
Command Control	Parallel Remote	●			
	Serial Remote (Controlled by SRC-301Z)	x			
	Serial Remote (RS-485)	●			
	USB Mouse	●			
	Infrared rays Remote (Controlled by RCT-30A)	●			
Function	Display	Built-in Test Signal	● (7 types)		
		Marker	Safety Marker: 100% + 80~99% (Every 1% step) Area Marker:4:3 (at 16:9), 13:9, 14:9, 15:9, 16:9 (at 4:3), 1.85:1, 2.35:1 Cross Marker:Cross, 5x5, 10x10		
		User Marker	● (10 Markers)		
		User Marker (Number of Scene)	10		
		Shadow	Area Marker:4:3 (at 16:9), 13:9, 14:9, 15:9, 16:9 (at 4:3) Shadow Level:0%, 20%, 40%, 60%		
		WFM Display	●		
		Time Code	● (VITC, HD-SDI)		
		Vector	●		
		2 Screen Display (Left:Still Image Right:Moving Picture)	●		
		Full Screen Capture Display	● (1920x1080)		
		IMD (In Monitor Display)	x	●	
		Video & TEST Signal Mix	●		
		Zoom Function	●		
	Dot by Dot Display	●			
	Others	Operating Time Display	●		
		Color Temp Memory	● 6500K / 9300K / 8 User Settings		
		Color/Mono Switching	●		
		VBS COMB Filter	● (TRAP/2D/3D)		
		APT	● (ON/OFF, Frequency)		
		Backlight Dimmer	—	●	
		R/G/B Screen Display ON/OFF	●		
		Scan Selection	NORMAL / UNDER		
		Aspect Selection	4:3/16:9 (SDTV)		
I/P Conversion Mode		FIELD / FRAME / INTERLACE	FIELD / FRAME		
External Memory	● (USB)				
Saving Still Image (in USB)	● (Maximum 100 Frames)				
Function Key	● 4				
LED Alarm Display	● (ABL/OVER RANGE)	● (OVER RANGE)			
SDI Channel Lock Setting	●				
USB Memory Version-up	●				

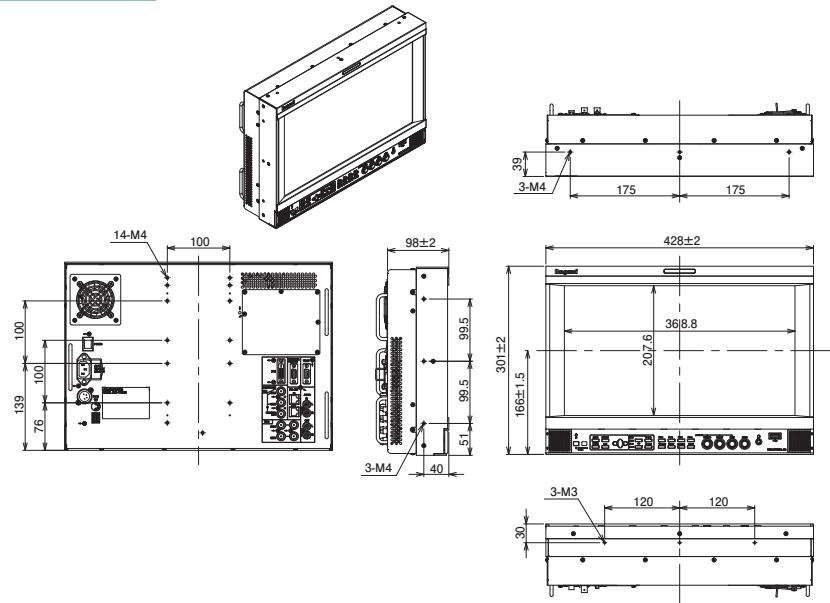
● : Standard, ▲ : Option,
 *1 EIAJ ED-2810 dark place, partial lighting contrast
 *2 SMPTE425M-A/B, YPBPR, 4:2:2

Dimensions

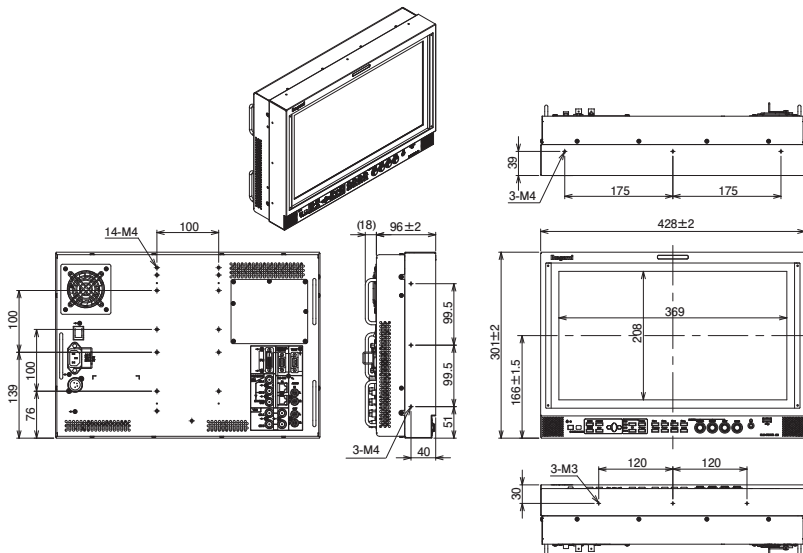
HEM-2570W



HEM-1770WR



HLM-1751WR



Unit:mm