HLM-2200

22-inch HDTV/SDTV Multi-format LCD Color Monitor

High-End Broadcast LCD Monitor

HLM-2200 employs 22-inch specified LCD panels and achieves space-saving, light weight and low power consumption. The HDTV/SDTV multi-format LCD color monitors have been designed taking into compatibility with any HDTV formats, as well as, active use of all kinds of spaces such as sub-control rooms, editing room, monitor wall, transmission control desks, OB Truck and etc. The HLM-2200 has all success functionality and operation method of Ikegami CRT Monitors such as HTM/TM series.

22-inch Wide	WXGA (1280×768 pixel)	Viewing Angle 170degree(H/V)	Contrast Ratio 600:1	Moving Response 10ms	No. of color reproducing: Over 16 million colors
VBS	Y,P$_B$,P$_R$/ RGB ▲	HD/SD-SDI	Embedded Audio ▲	Embedded Analog ▲	PC Picture Input
4:3/16:9	Remote (Parallel)	Remote (Serial)	Remote (Infrared rays)	Marker	Shadow
Test Signal Generator	10-Color temperature-memory	Speaker	VESA Mount		
^{W}520×^{H}355×^{D}99$_{mm}$ (^{W}20.5×^{H}14.0×^{D}3.9$_{inches}$)	9RU	9kg (19.84lbs)			

HLM-1700R

17-inch HDTV/SDTV Multi-format LCD Color Monitor

High-End Broadcast LCD Monitor

HLM-1700R employs 17-inch specified LCD panels and achieves space-saving, light weight and low power consumption. The HDTV/SDTV multi-format LCD color monitors have been designed taking into compatibility with any HDTV formats, as well as, active use of all kinds of spaces such as sub-control rooms, editing room, monitor wall, transmission control desks, OB Truck and etc. The HLM-1700 has all success functionality and operation method of Ikegami CRT Monitors such as HTM/TM series.

17-inch Wide	WXGA (1280×768 pixel)	Viewing Angle 170degree(H/V)	Contrast Ratio 600:1	Moving Response 10ms	No. of color reproducing: Over 16 million colors
VBS	Y,P$_B$,P$_R$/ RGB ▲	HD/SD-SDI	Embedded Audio ▲	Embedded Analog ▲	PC Picture Input
4:3/16:9	Remote (Parallel)	Remote (Serial)	Remote (Infrared rays)	Marker	Shadow
Test Signal Generator	10-Color temperature-memory	Speaker	VESA Mount		
^{W}428×^{H}355×^{D}78$_{mm}$ (^{W}16.9×^{H}12.0×^{D}3.1$_{inches}$)	7RU	7kg (15.43lbs)			

▲ Option
∗ ROHS compliant model available in 2006

Evolutional Feature for HLM-2200/1700R Multi-format LCD Monitors

● Variety of Input/Output

(1) With the optional EA-170AV installed, 2 channels of embedded audio is available as analog output, the pair of channels (ch1/2, 3/4, 5/6, 7/8) can be set by the menu.
Audio monitoring is available with built-in speaker. (except CS type)

(2) With the optional EA-1700AVD installed, there is support up to 8 channels of digital audio outputs in AES/EBU format.
Audio monitoring is available with built-in speaker. (except CS type)

(3) VBS or Y/C input/output (standard) NTSC/PAL switchable

(4) Multi-format HD/SD SDI input/output (standard) Multi-format HD/SD(4:2:2) SDI 2-ch inputs, 1-ch output.

(5) With the optional CM-170 installed, either Y, P_B, P_R or RGB input and EXT Sync input are available.

(6) Remote Control Interface (standard) Serial remote signal input and Parallel remote signal input

(7) PC Input (standard) Analog RGB signals (VGA/SVGA/XGA/WXGA)

(8) Analog Audio Input (standard, except CS type) Audio monitoring is available with built-in speaker

● Multiple Embedded Audio Indicators

♦ With the optional EA-170LV installed, up to 8 embedded audio level indicators can be superimposed over the displayed video, providing considerable space savings.
∗ Either the EA-170AV or the EA-170AVD is required.

♦ Built-in Speaker (except CS type) Monitoring of the embedded audio is available from the built-in speaker.

● Multiple Monitor Control

HLM-1700CS   Coax cable

SRC-301A/Z

Superior Heat Management Design provides sufficient air flow even when mounting units next to each other.

Single or Multiple monitor control is available with the optional SRC-301A/Z serial remote controller.

● The most suitable monitor for 19-inch rack mounting, the HLM-1700R

19" Rackmount

HLM-1700R 17" wideLCD

HTM-1505RA 15" 4:3CRT

7U

9U

HTM-2070R 20" 4:3CRT

A 4:3 image displayed on the HLM-1700R provides the same picture size as a 15" 4:3 conventional CRT monitor.

In 16:9, the image size of the HLM-1700R is similar to that of a letterbox image on a 20" monitor, providing the most efficient display in either 4:3/16:9 with considerable space savings.

● Flexible Rack-mounting Options

Side and Top mounting holes facilitate custom-made hardware.

VESA Mount Compliant
17-inch : 75mm / 100mm
22-inch : 100mm

HLM-2200

19 inch Rackmount

Width 520 mm

9U

RS-2200T rack mount adapter for 19-inch rack-mounting of the HLM-2200.

HLM-900R
8.4-inch HDTV/SDTV Multi-format LCD Color Monitor

HLM-900R employs 8.4-inch specified LCD panels and achieves space-saving, light weight and low power consumption, and also mounted in a 19-inch rack with a 2-monitor configuration. The HDTV/SDTV multi-format LCD color monitors have been designed taking into compatibility with any HDTV formats, as well as, active use of all kinds of spaces such as sub-control rooms, monitor wall, transmission control desks, OB Truck, signal monitoring and adjustment for video equipment installed in any broadcasting facilities.

8.4-inch	XGA (1024×768 pixel)	Viewing Angle 170degree(H/V)	Contrast Ratio 400:1	No. of color reproducing: Over 16 million colors
VBS	Y,P$_B$,P$_R$/ RGB ▲	HD/SD-SDI	Embedded Audio ▲	Embedded Analog ▲
4:3/16:9	Remote (Parallel)	Remote (Serial)	Marker	Shadow
Test Signal Generator	10-Color temperature-memory	Speaker	VESA Mount Adaptor▲	
W216×H176×D107mm (W8.5×H6.9×D4.2inches)		4RU	2.4kg (5.29lbs)	

HLM-900P
8.4-inch HDTV/SDTV Multi-format LCD Color Monitor

HLM-900P employs 8.4-inch specified LCD panels and achieves space-saving, light weight and low power consumption, and also mounted in a 19-inch rack with a 2-monitor configuration. The HDTV/SDTV multi-format LCD color monitors have been designed taking into compatibility with any HDTV formats, as well as, active use of all kinds of spaces such as sub-control rooms, monitor wall, transmission control desks, OB Truck, signal monitoring and adjustment for video equipment installed in any broadcasting facilities.
HLM-900P is suitable for portable monitor, being available for DC input and for battery operation with V-mount or Anton mount.

8.4-inch	XGA (1024×768 pixel)	Viewing Angle 170degree(H/V)	Contrast Ratio 400:1	No. of color reproducing: Over 16 million colors
AC:27W DC:23W	AC ▲			
VBS	Y,P$_B$,P$_R$/ RGB ▲	HD/SD-SDI	Embedded Audio ▲	Embedded Analog ▲
4:3/16:9	Remote (Parallel)	Remote (Serial)	Marker	Shadow
Test Signal Generator	10-Color temperature-memory	Speaker	VESA Mount Adaptor▲	
W216×H176×D99mm (W8.5×H6.9×D3.9inches)		4RU	2.3kg (5.07lbs)	

▲ Option
✳ ROHS compliant model available in 2006

Evolutional Feature for HLM-900R/P Multi-format LCD Monitors
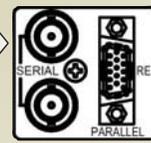
● Versatile Interface

(1) VBS inputs:
2ch, each with loop through, NTSC/PAL auto detect.

(2) Multi-format HD/SD-SDI (4:2:2) inputs:
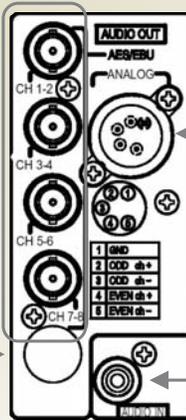2ch, 1ch monitor output, follows channel selection.

(3) [Option] EA-900DM Audio Demux module with EA-900D provides 8 channels of AES/EBU digital embedded audio outputs.
• The audio can also output to the front speaker.
∗ Note that the EA-900D cannot co-reside with EA-900A analog output.

(4) [Option] CM-900 module provides Y,P_B,P_R/RGB and external sync inputs.
∗ The CM-900 cannot co-reside with the embedded audio options.

(5) Remote control interface:
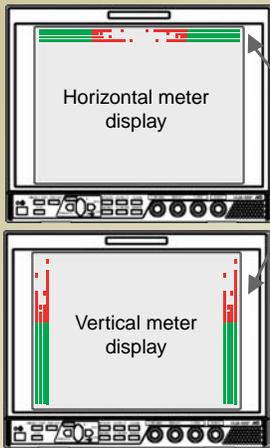Serial remote signal input and Parallel remote signal input.

(6) [Option] EA-900DM Audio Demux module with EA-900A provides 2 channels of analog embedded audio outputs.
• The output channels can be chosen by menu among ch1/2, 3/4, 5/6, and 7/8.
• The audio can also output to the front speaker.
∗ Note that the EA-900A cannot co-reside with the EA-900D digital output.

(7) Analog Audio input:
The audio signal outputs to the front speaker for audio monitoring.

● Multiple Embedded Audio Level Indicators

(1) [Option] With the optional EA-900DM and EA-900L modules, 8 channels of embedded audio level meters can be superimposed over the video.
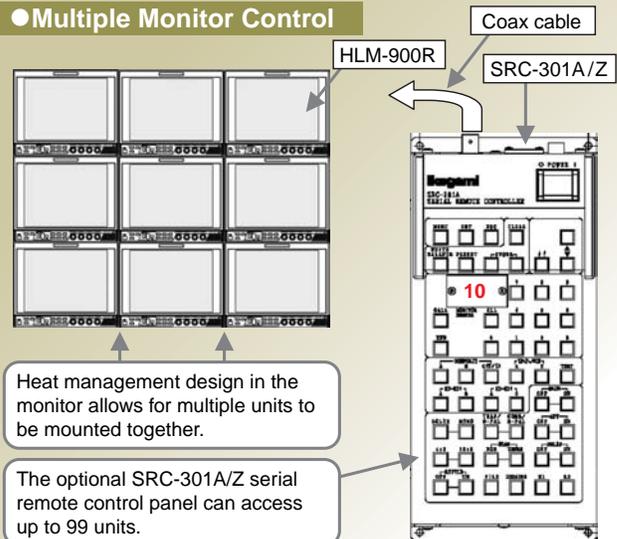
Horizontal meter display

Vertical meter display

2) Display settings:
• The embedded audio level displays can be set for horizontal or vertical meters by menu according to user preference.
• In vertical meter display, indicating channels can be programmed by menu such as the sequential order from left to right (1234-5678), or odd channels on the left and even channels on the right (1357-8642).
• The individual channel can be set ON/OFF for display.

(3) Level meter contrast setting:
• Meters-overlaying-video mode or meter-transparent-to-video mode can be set.
• Three different contrast levels are available for meters.
• Three different transparent levels are available.

(4) Specifications:
• Display channel:8ch
• Display segment:26 segments
• Peak hold:approx. 1 sec.
• Release time:approx. 0.4 sec.

● Multiple Monitor Control
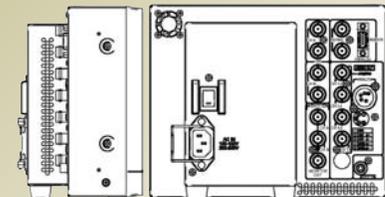
Coax cable

HLM-900R

SRC-301A/Z

Heat management design in the monitor allows for multiple units to be mounted together.
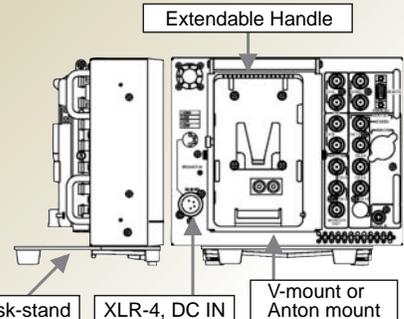
The optional SRC-301A/Z serial remote control panel can access up to 99 units.
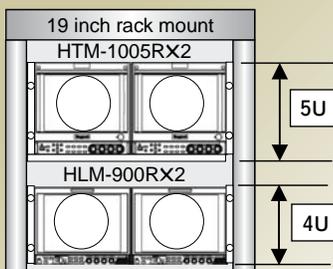
● Two models are available

(1) HLM-900R:
• Designed for rack mount applications.
• AC power supply is integrated for simple and clean installation.
• 100 to 120 VAC or 200 to 240 VAC.

(2) HLM-900P:
• Portable design for field applications
• Battery operation
• AC operation is possible with XLR-4 plug, 12VDC power supply.

Extendable Handle

STD-900 desk-stand

XLR-4, DC IN

V-mount or Anton mount

● Rack mounting saves space

19 inch rack mount

HTM-1005R×2

5U

HLM-900R×2

4U

The HLM-900R/P is 4RU high but still maintains about the same picture size as the conventional 5RU high 10" CRT model (HTM-1005R).

HLM Series

Accessories for HLM Series

HLM-2200/HLM-1700R

Model	Description	Remarks
EA-170AV	Embedded Audio Analog Outputs Module	XLR(5-pin), Embedded Analog Output: 2ch
EA-170AVD	Embedded AES/EBU Outputs Module	BNC, Embedded AES/EBS Output : 8ch
EA-170LV	Embedded Audio Level Indicator Module	Require EA-170AV or EA170AVD for use
CM-170	Analog component input module	
RS-1700T	Rack-mount Adaptor for 19-inch Monitor	4 Step Angle
RS-2200T	Rack-mount Adaptor for 19-inch Monitor	4 Step Angle
STD-1722	Stand for VESA standard	
RCT-20A	Infrared-rays Remote Controller	
SRC-301Z	Serial Remote Controller	

RS-1700T
HLM-1700R
Rack-mount Adaptor for 19-inch Monitor

RS-2200T
HLM-2200
Rack-mount Adaptor for 19-inch Monitor

STD-1722
HLM-1700R/1700CS
Stand for VESA standard

SRC-301Z
Serial Remote Controller

HLM-900R/HLM-900P

Model	Description	Remarks
EA-900DM	Embedded De-Multiplex Module	EMB audio output
EA-900A	Embedded Audio Analog Outputs Module	Output : 2ch
EA-900D	Embedded AES/EBU Outputs Module	Output : 8ch
EA-900L	Embedded Audio Level Indicator Module	
CM-900	Analog component input module	
SRC-301Z	Serial Remote Controller	
DR-900	Rack-mount adaptor	for HLM-900R
DR-900T	Rack-mount adaptor	Tilt type
SR-900	Rack-mount adaptor	With blank panel for HLM-900R
SR-900T	Rack-mount adaptor	Tilt type with blank panel
WR-900L	Rack-mount adaptor	With WFM Monitor (LV5750)
WR-900C	Rack-mount adaptor	With WFM Monitor
STD-900	Stand	for HLM-900R (Standard for HLM-900P)
STD-900T	Tilt stand	
AC-900	AC Adaptor	for HLM-900P
MH-900	Collapsible Hood	for HLM-900P
CC-900	Hard Carrying Case	for HLM-900P
SC-900	Soft Carrying Case	for HLM-900P
GR-900	Grip	for HLM-900R

STD-900 Stand

STD-900T Tilt Stand

DR-900 HLM-900R Rack-mount Adaptor

SR-900 HLM-900R Rack-mount Adaptor with blank panel
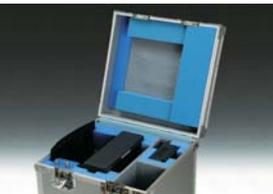
WR-900L HLM-900R WFM Rack-mount Adaptor

AC-900 HLM-900P AC Adaptor

MH-900 HLM-900P Collapsible Hood

CC-900 HLM-900P Hard Carrying Case

SC-900 HLM-900P Soft Carrying Case

	Display Size (Viewing Area)	Rack-mountable Space	Resolution (Number of Pixel / Max Brightness)	Input Signal							DC Input	Tally		Power Consumption	Dimensions mm (inch)	Weight kg (lbs)	Feature
				VBS	Y, P_B, P_R/RGB	Y/C	HD-SDI	SD-SDI	Embedded Audio	Analog Audio		R	G				
HLM-2200	22"	9RU	1280×768	◯ 2	△ 1	✕	◯ 2	◯ 2	△	◯	✕	◯	◯	95W	W520 (20.5) × H355 (14.0) × D99 (3.9)	9kg (19.84 lbs)	Employs a high performance WXGA specified LCD. Accepts Multi-format inputs (1080/60i, 1080/50i, 1080/30p, 1080/25p, 1080/24p, 1080/24pSF, 720/60p, 480/60i, 575/50i)
HLM-1700R	17"	7RU	1280×768	◯ 2	△ 1	✕	◯ 2	◯ 2	△	◯	✕	◯	◯	70W	W428 (16.9) × H305 (12.1) × D78 (3.1)	7kg (15.43 lbs)	Employs a high performance WXGA specified LCD. Accepts Multi-format inputs (1080/60i, 1080/50i, 1080/30p, 1080/25p, 1080/24p, 1080/24pSF, 720/60p, 480/60p, 480/60i, 575/50i)
HLM-900R	8.4"	4RU	1024×768	◯ 2	△ 1	✕	◯ 2	◯ 2	△	◯	▲	◯	◯	26W	W216 (8.5) × H176 (6.9) × D107 (4.2)	2.4kg (5.29 lbs)	Dual Rack-mountable Employs a high performance XGA specified LCD. Accepts Multi-format inputs (1080/60i, 1080/50i, 1080/30p, 1080/25p, 1080/24p, 1080/24pSF, 720/60p, 720/50p, 720/30p, 720/24p, 480/60p, 480/60i, 575/50i)
HLM-900P	8.4"	4RU	1024×768	◯ 2	△ 1	✕	◯ 2	◯ 2	△	◯	◯	◯	◯	AC 27W / DC 23W	W216 (8.5) × H176 (6.9) × D99 (3.9)	2.3kg (5.07 lbs)	Dual Rack-mountable Employs a high performance XGA specified LCD. Accepts Multi-format inputs (1080/60i, 1080/50i, 1080/30p, 1080/25p, 1080/24p, 1080/24pSF, 720/60p, 720/50p, 720/30p, 720/24p, 480/60p, 480/60i, 575/50i)

△ Option   ▲ Factory Option