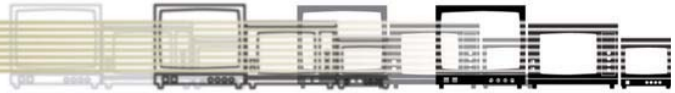


HLM Series



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 _s , 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		
520.0x355.0x99.0mm (*20.5"x14.0"x3.9inches)	9RU	9kg (19.84lbs)			

HLM-1710WR 17-inch HDTV/SDTV Multi-format LCD Color Monitor

High-End Broadcast LCD Monitor



HLM-1710WR 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-1710WR 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 176degree(H/V)	Contrast Ratio 600:1	Moving Response 10ms	No. of color reproducing: Over 16 million colors
VBS	Y, P _s , 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		
428.0x355.0x80.0mm (*16.9"x12.0"x3.2inches)	7RU	8kg (17.6lbs)			

* Option
* RoHS compliant model available in 2006



HLM-910R 8.4-inch HDTV/SDTV Multi-format LCD Color Monitor

High-End Broadcast LCD Monitor



HLM-910R 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_s, 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	
*216.4×176.4×107 mm (*8.5×6.9×4.2 inches)		4RU	2.4kg (5.29lbs)	

▲ Option
* RoHS compliant model available in 2006

Accessories for HLM Series

HLM-2200

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-1710WR
Rack-mount Adaptor for 19-inch Monitor



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



STD-1722
HLM-1710WR
Stand for VESA standard



SRC-301Z
Serial Remote Controller

HLM-1710WR/HLM-910R

Model	Description	Remarks
EA-910DML	Embedded Audio Level Indicator Module	EMB audio monitor output
EA-900A	Embedded Audio Analog Outputs Module	Output : 2ch
EA-900D	Embedded AES/EBU Outputs Module	Output : 8ch
EA-171DML	Embedded Audio Level Indicator Module	EMB audio monitor output
CM-900	Analog Component Input Module	
SRC-301Z	Serial Remote Controller	
DR-910	Rack-mount adaptor	for HLM-910R
DR-900T	Rack-mount adaptor	Tilt type
SR-900	Rack-mount adaptor	With blank panel for HLM-910R
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-910R
PC-171	PC and DVI-D inputs	for HLM-1710WR
CM-171	Analog RGB / YPbPr inputs	for HLM-1710WR



STD-900
Stand



STD-900T
Tilt Stand



DR-910
HLM-910R
Rack-mount Adaptor



SR-900
HLM-910R
Rack-mount Adaptor with blank panel



WR-900L
HLM-910R
WFM Rack-mount Adaptor

Evolution Feature for HLM-2200/1710WR Multi-format LCD Monitors

● Variety of Input/Output

HLM-2200

(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-170/171 installed, either Y, Pb, Pr 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-170DML installed, up to 8 embedded audio level indicators can be superimposed over the displayed video, providing considerable space savings.

◆ The Built-in Speaker allows for monitoring of embedded audio.

HLM-1710WR

● Multiple Monitor Control

HLM-1710WR 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-1710WR

19" Rackmount

HLM-1710WR 17" wide LCD

HTM-1517R 15" 4:3 CRT

HTM-1990R 19" 4:3 CRT

7U

9U

A 4:3 image displayed on the HLM-1710WR provides the same picture size as a 15" 4:3 conventional CRT monitor.

In 16:9, the image size of the HLM-1710WR 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

HLM-2200

19 inch Rackmount

Width 520 mm

9U

Side and Top mounting holes facilitate custom-made hardware.

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

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

Evolutional Feature for HLM-910R 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-910DML 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-910DML 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 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-910DML module, 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-overlying-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

HLM-910R

Coax cable

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.

● Feature

- HLM-910R:
- Designed for rack mount applications.
 - AC power supply is integrated for simple and clean installation.
 - 100 to 120V AC or 200 to 240V AC.

● Rack mounting saves space

19 inch rack mount

10" CRT model X2




5U

HLM-910R X2

4U



The HLM-910R is 4RU high but still maintains about the same picture size as the conventional 5RU high 10" CRT model.

HLM Series Specifications

Model	Image	CRT Size (Viewing Area)	Rack-mountable Space	Resolution (Number of Pixel (Max Brightness))	Input Signal						Tally		Power Consumption	Dimensions mm (inch)	Weight kg (lbs)	Feature		
					VBS	Y, Pb, Pr/RGB	Y/C	HD-SDI	SD-SDI	Embedded Audio	Analog Audio	DC Input					R	G
HLM-2200		22"	9RU	1280x768	○ 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-1710WR		17"	7RU	1280x768	○ 2	▲ 1	×	○ 2	○ 2	▲	○	×	○	○	60W	W428 (16.9) × H305 (12.1) × D80 (3.2)	8kg (17.60 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-910R		8.4"	4RU	1024x768	○ 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)


△ Option ▲ Factory Option

GRT Monitors Specifications

Model	Image	CRT Size (Viewing Area)	Rack-mountable Space	Resolution	Dot Pitch	Input Signal						Tally		Power Consumption	Dimensions mm (inch)	Weight kg (lbs)	Feature		
						VBS	Y, Pb, Pr/RGB	Y/C	Multi-SDI	SD-SDI	Embedded Audio	Analog Audio	DC Input					R	G
HTM-1990R		19"	9RU	950TVL	0.25mm	△ 3	○ 1 (2)	×	△ 2	△ 2	△ 2	×	×	○	○	240W	W450 (17.8) × H399 (15.8) × D515 (20.3)	37kg (81.57 lbs)	● Accepts following format inputs (1080/60i, 1080/50i, 720/60p, (Option: 720/50p))
HTM-1517R		15"	7RU	750TVL	0.27mm	△ 3	○ 1 (2)	×	△ 2	△ 2	△ 2	×	×	○	○	240W	W450 (17.8) × H310 (12.2) × D515 (20.3)	28kg (61.73 lbs)	● Accepts following format inputs (1080/60i, 1080/50i, 720/60p, (Option: 720/50p))

△ Option () Number of inputs with DC-801

Design and specifications are subject to change without notice.

*NTSC versions are no available with CE Mark. 

Ikegami Tsushinki Co.,Ltd.

■ URL : <http://www.ikegami.co.jp/en/>

U125B068-SI-F1 Printed in Japan

■ Head Office
5-6-16 Ikegami, Ohta-ku, Tokyo 146-8567, Japan TEL.03-5700-1111/FAX.03-5700-1137

■ Overseas Sales Division
5-6-16 Ikegami, Ohta-ku, Tokyo 146-8567, Japan TEL.03-5700-4114/FAX.03-5748-2200

Ikegami Electronics (USA) Inc.

■ URL:<http://www.ikegami.com>

■ Headquarters
37 Brook Avenue Maywood, New jersey, 07607 TEL 201-368-9171/FAX 201-569-1626

■ West Coast Office:
2631 Manhattan Beach Blvd. Redondo Beach, CA 90278 Tel 310-297-1900/Fax 310-536-9550



Accredited by the Dutch Council for Certification