

HLM-905WR 9-inch HDTV/SDTV Multi-format LCD Color Monitor

RoHS

High-End Broadcast LCD Monitor



The HLM-905WR is a compact light weight 9-inch LCD monitor, supporting 3G/HDTV/SDTV multi-format SDI and VBS inputs as standard. For its LCD panel, it employs a high resolution WXGA(1280×768) panel incorporating the latest IPS technology with LED back-light, and wide viewing angle. It can be rack mounted in dual monitor configuration, ideal for use in a full range of applications.

The HLM-905WR is low in power consumption, supporting either AC or DC powering. Battery operation is available using an optional battery bracket. The monitor has a USB connector on the operation panel, allowing setup file store & recall, as well as, remote operation from a mouse for menu navigation, including user maker operation, etc.



9-inch Wide	WXGA (1280-768 pixel)	AC: 23W DC: 20W	Viewing Angle 176degree(H/V)	Contrast Ratio 1000:1	AC Input	DC Input	Battery ▲
VBS Input	3G/HD/SD(4:2:2)-SDI Input	Embedded Analog Audio Output	Embedded Audio Meter	Analog Audio 2ch lputput	5.1ch Surround Down-mix	ASP-100 ▲	
4:3/16:9	Remote (Parallel)	Remote (Serial)	Remote (Mouse)	Remote (RS485) ▲	Marker	User Marker	Shadow
Test Signal Generator	10-Color temperature-memory	Speaker	Stereo Headphone Jack	VITC Display	WFM Display	Split Screen	Dot-by-Dot Display
Vector Scope Display	Mouse Menu Control	USB Memory Port					
W222.4×173.0×69.5mm (*8.8×6.8×2.8 inches)		4RU	Approx. 2.0kg* (4.41lbs)		* Excluding Stand		

HLM-1704WR 17-inch HDTV/SDTV Multi-format LCD Color Monitor

RoHS

High-End Broadcast LCD Monitor



The HLM-1704WR employs a 17-inch LCD panel in WXGA (1280×768) resolution with wide critical viewing angle, excellent brightness and contrast, fast response time, and faithful color reproduction. It provides HDTV/SDTV multi-format SDI and VBS inputs as standard and achieves space saving size, light weight, and low power consumption. Supports AC or DC powering, battery operation is available using optional battery bracket.

17-inch Wide	WXGA (1280-768 pixel)	AC: 49W DC: 38W	Viewing Angle 170degree(H/V)	Contrast Ratio 800:1	AC Input	DC Input	Battery ▲
VBS Input	HD/SD(4:2:2)-SDI Input	Embedded Analog Audio Output	Embedded Audio Meter	DVI-D Input	Analog Audio 2ch lputput	5.1ch Surround Down-mix	ASP-100 ▲
4:3/16:9	Remote (Parallel)	Remote (Serial)	Remote (Mouse)	Remote (RS485) ▲	Marker	User Marker	Shadow
Test Signal Generator	10-Color temperature-memory	Speaker	Stereo Headphone Jack	VITC Display	WFM Monitoring Display	Split Screen	Dot-by-Dot Display
Vector Scope Display	Mouse Menu Control	USB Memory Port					
W428.0×305.0×80.0mm (*16.9×12.0×3.2 inches)		7RU	* 6.9kg (15.21lbs)		* Excluding Stand		

HLM Series Options

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 Series of LCD Monitors and the HTM-1990R CRT monitor.

[For HLM Series Monitors]

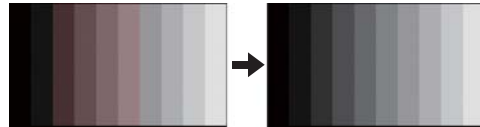


Simply connect the ASP cable to USB interface

● 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.

● Monitors / software versions supporting ASP-100 operation.

Monitor	Integrated software	
	MPU	FPGA
HLM-904WR	V1.20 ~	ALL
HLM-1704WR	V0.94 ~	ALL
HLM-1750WR	V1.02 ~	ALL
HLM-2450W	V2.02 ~	V20 ~
HLM-2450WA	V0.94 ~	ALL
HLM-2450WB	V0.76 ~	ALL
HLM-3250W	V2.02 ~	V20 ~
HTM-1990R (*)	V04.1 ~	ALL

The ASP-100 is supported by the software versions indicated above or later.
* HTM-1990R requires an optional ASP-CONV.

● 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

HLM Series Options

Model	Description	HLM-3250W	HLM-2450WB	HLM-1750WR	HLM-905WR	HLM-1704WR	HLM-5003WR	HLM-7002WR	Remarks
Remote Controller									
RCT-30A	Infrared Remote Controller	●	●	●					
SRC-301Z	Serial Remote Controller	●	●	●	●	●			Controls up to 99 motions with loop through connection
Video/Audio Module									
CM-175	Analog Component Input Module		●	●					1ch Y, P _B , P _R or RGB Input, 1ch loop through EXT SYNC, cannot co-reside with PC-171* ¹
CM-240	Analog Component and PC Input Module	●							1ch Y, P _B , P _R /RGB, 1ch Analog PC Input, 1ch EXT Sync* ²
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)* ^{2*3}
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 * ^{2*3}
EA-240A	Embedded Analog Audio Output Module	●	●	●					2ch (ch: Menu Select) Embedded Analog Output(XLR 5pin)* ²
EA-240D	Embedded AEX/EBU Audio Output Module	●	●	●					8ch Embedded AES/EBU Output * ²
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-1710	19-inch Rack Mount Adaptor			●		●			Fixed type, 7RU height
RS-1710T	19-inch Rack Mount Adaptor with Tilt Mechanism			●		●			4-Step Angle, 7RU height
RS-2450T	Rackmount Adaptor	●							Fixed Tilt Angle Type
STAND									
STD-1517	Stand					●			
STD-1517T	Stand with Tilt Mechanism					●			Tilt:Up 15 degree/Down 15 degree
STD-1710T	Stand with Tilt Mechanism					●			Tilt (Axis:Center of Monitor):Up 90 degree/Down 10 degree* ⁴
STD-1722	VESA Arm Stand					●			
STD-175	Stand		●						
STD-175T	Stand with Tilt Mechanism		●						Tilt:Up 15 degree/Down 15 degree
STD-240T	Stand with Tilt Mechanism	●							Tilt (Axis:Center of Monitor):Up 45 degree/Down 8 degree * ⁴
STD-900	Stand				●				Tilt Angle:Up 14 degree, Standard for HLM-920WP/910P
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-1750	Handle			●		●			
GR-904	Handle				●				
LCD Protection Cover									
PP-1704	Protection Cover for HLM-1704WR					●			Anti-Reflection Coating
PP-1750	Protection Cover for HLM-1750WR		●						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-1750	Folding Hood			●		●			
MH-904	Folding Hood					●			
Carrying Case									
CC-1704	Hard Carrying Case					●			
CC-1750	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: Factory Option
- *2: Either one optional module can be installed. Up to 4ch SDI input is available if D3G-240A or D3G-240G is installed.
- *3: Factory Option (Under development)
- *4: Standard Tilt Stand has a tilt mechanism with axis at bottom of monitor (up 15 degree and down 8 degree).

Remote Controller



SRC-301Z
Serial Remote Controller



RCT-30A
Infrared Remote Controller

Auto Setup Probe



ASP-100
Auto Setup Probe Unit

Rackmount Adaptor



RS-1710T
HLM-1750WR/1704WR
19-inch Rack-mount Adaptor



DR-904
HLM-905WR
9-inch Rack-mount Adaptor



BP-920
DR-904
Blank Panel for DR-904

Stand



STD-175
HLM-1750WR
Stand



STD-175T
HLM-1750WR
Tilt Stand



STD-1722
HLM-1704WR
VESA Arm Stand



STD-1517
HLM-1704WR
Stand



STD-1517T
HLM-1704WR
Tilt Stand



STD-900
HLM-905WR
Stand



STD-920T
HLM-905WR
Tilt Stand

Handle



GR-1750
HLM-1750WR/1704WR
Handle

Battery Bracket



BB-1750A
HLM-1750WR/1704WR
Battery Bracket
(Anton Bauer Type)



BB-1750V
HLM-1750WR/1704WR
Battery Bracket
(V-Mount Type)



BB-904A
HLM-905WR
Battery Bracket
(Anton Bauer Type)



BB-904V
HLM-905WR
Battery Bracket
(V-Mount Type)

Carrying Case/Hood



CC-1750
HLM-1750WR
Hard Carrying Case



SO-016
HLM-905WR
Soft Carrying Case



MH-904
HLM-905WR
Collapsible Hood



CC-5003/7002
HLM-5003WR/7002WR
Hard Carrying Case



PP-1750
HLM-1750WR
LCD Protection Cover










PP-904
HLM-905WR
LCD Protection Cover



MH-1750
HLM-1750WR/1704WR
Collapsible Hood

HLM Series Specifications

Model	Image	Display Size (Viewing Area)	Rack-mountable Space	Resolution Number of Pixel (Max Brightness)	Input Signal							DC Input	Tally		Power Consumption*3	Dimensions mm (inch)	Weight kg (lbs)	Feature		
					VBS	Y, P, R, RGB	DVI-D	HD/SD-SDI	3GHD-SDI	PC Picture Input	Embedded Audio		Analog Audio	R					G	
HLM-3250W		32" Full-HD	X	1920 X 1080	○ 2	△ 1	○ 1	○ 2	△ 2	△ 1	○	○ 2	X	○	○	145 W	W776 (30.6) X H498 (19.6) X D110 (4.3)	16.3kg (35.94 lbs) Excluding Stand	<ul style="list-style-type: none"> • 1080i/60, 59.94 • 1080i/50 • 1080p/60, 59.94 • 1080p/50 • 1080p/30, 29.97 • 1080psF/30 • 1080p/25 • 1080psF/25 • 1080p/24, 23.98 • 1080psF/24, 23.98 • 1035i/60, 59.94 • AC100~120V±10% • AC200~240V±10% 	<ul style="list-style-type: none"> • 720p • 60, 59.94 • 720p/50 • 720p/30, 29.97 • 720p/25 • 720p/24, 23.98*1 • 480i/59.94 • 480p/59.94*2 • 575i/50
HLM-2450WB		24" Full-HD	10RU	1920 X 1200	○ 2	△ 1	○ 1	○ 2	△ 2	△ 1	○	○ 2	X	○	○	107 W	W562 (22.1) X H398 (15.7) X D101.3 (4.0)	9.3kg (20.5 lbs) Excluding Stand	<ul style="list-style-type: none"> • 1080i/60, 59.94 • 1080i/50 • 1080p/60, 59.94 • 1080p/50 • 1080p/30, 29.97 • 1080psF/30 • 1080p/25 • 1080psF/25 • 1080p/24, 23.98 • 1080psF/24, 23.98 • 1035i/60, 59.94 • AC100~120V±10% • AC200~240V±10% 	<ul style="list-style-type: none"> • 720p • 60, 59.94 • 720p/50 • 720p/30, 29.97 • 720p/25 • 720p/24, 23.98*1 • 480i/59.94 • 480p/59.94*2 • 575i/50
HLM-1750WR		17" Full-HD	7RU	1920 X 1080	○ 2	△ 1	○ 1	○ 2	△ 2	△ 1	○	○ 2	○	○	○	AC 78W / DC 69W	W428 (16.9) X H301 (11.9) X D121 (4.8)	8.3kg (18.30 lbs)	<ul style="list-style-type: none"> • 1080i/60, 59.94 • 1080i/50 • 1080p/60, 59.94 • 1080p/50 • 1080p/30, 29.97 • 1080psF/30 • 1080p/25 • 1080psF/25 • 1080p/24, 23.98 • 1080psF/24, 23.98 • 1035i/60, 59.94 • AC100~120V±10% • AC200~240V±10% 	<ul style="list-style-type: none"> • 720p • 60, 59.94 • 720p/50 • 720p/30, 29.97 • 720p/25 • 720p/24, 23.98*1 • 480i/59.94 • 480p/59.94*2 • 575i/50
HLM-905WR		9" Wide	4RU	1280 X 768	○ 1	X	X	○ 2	X	X	○	○ 2	○	○	○	AC 23W / DC 20W	W222.4 (8.8) X H173 (6.8) X D69.5 (2.8)	2.0kg (4.41 lbs)	<ul style="list-style-type: none"> • 1080i/60, 59.94 • 1080i/50 • 1080p/60, 59.94 • 1080p/50 • 1080p/30, 29.97 • 1080psF/30 • 1080p/25 • 1080psF/25 • 1080p/24, 23.98 • 1080psF/24, 23.98 • 1035i/60, 59.94 • AC100~120V±10% • AC200~240V±10% 	<ul style="list-style-type: none"> • 720p • 60, 59.94 • 720p/50 • 720p/30, 29.97 • 720p/25 • 720p/24, 23.98 • 480i/59.94 • 575i/50
HLM-1704WR		17" Wide	7RU	1280 X 768	○ 1	X	○ 1	○ 2	X	X	○	○ 2	○	○	○	AC 49W / DC 38W	W428 (16.9) X H305 (12.0) X D80 (3.2)	6.9kg (15.21 lbs)	<ul style="list-style-type: none"> • 1080i/60, 59.94 • 1080i/50 • 1080p/60, 59.94 • 1080p/50 • 1080p/30, 29.97 • 1080psF/30 • 1080p/25 • 1080psF/25 • 1080p/24, 23.98 • 1080psF/24, 23.98 • 1035i/60, 59.94 • AC100~120V±10% • AC200~240V±10% 	<ul style="list-style-type: none"> • 720p • 60, 59.94 • 720p/50 • 720p/30, 29.97 • 720p/25 • 720p/24, 23.98 • 480i/59.94 • 575i/50
HLM-5003WR		5" Triple	2RU	800 X 480	X	X	X	X	○ 1	X	○	X	○	○	○	AC 32W / DC 28.8W 2.4A	W481 (18.88) X H88.1 (3.5) X D56.3 (2.25)	1.8kg (3.97 lbs)	<ul style="list-style-type: none"> • 1080i/60, 59.94 • 1080i/50 • 1080p/60, 59.94 • 1080p/50 • 1080p/30, 29.97 • 1080psF/30, 29.97 • 1080p/25 • 1080psF/25 • 1080p/24, 23.98 • 1080psF/24, 23.98 • AC100~240V±10% 	<ul style="list-style-type: none"> • 720p • 60, 59.94 • 720p/50 • 720p/30, 29.97 • 720p/25 • 720p/24, 23.98 • 480i/59.94 • 575i/50
HLM-7002WR		7" Dual	3RU	800 X 480	X	X	X	X	○ 1	X	○	X	○	○	○	AC 32W / DC 26.4W 2.2A	W481 (18.88) X H132.6 (5.25) X D56.3 (2.25)	2.1kg (4.63 lbs)	<ul style="list-style-type: none"> • 1080i/60, 59.94 • 1080i/50 • 1080p/60, 59.94 • 1080p/50 • 1080p/30, 29.97 • 1080psF/30, 29.97 • 1080p/25 • 1080psF/25 • 1080p/24, 23.98 • 1080psF/24, 23.98 • AC100~240V±10% 	<ul style="list-style-type: none"> • 720p • 60, 59.94 • 720p/50 • 720p/30, 29.97 • 720p/25 • 720p/24, 23.98 • 480i/59.94 • 575i/50

△ Option

*1 Available with SDI Input only *2 Available with RGB/Y,P³,P³ Input only *3 Maximum Power Consumption at Standard Configuration *4 2ch Output from Stereo Mini Jack *5 Common connector for 3G/HD/SD-SDI Input

