HLM Series

HLM-2610W 26-inch HDTV/SDTV Multi-format LCD Color Monitor

The HLM-2610W employs a 26-inch LCD panel in WXGA (1366×768) 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, light weight, and low power consumption.

HLM-1711WR 17-inch HDTV/SDTV Multi-format LCD Color Monitor

The HLM-1711WR employs a 17-inch LCD panel in WXGA (1280×768) 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, light weight, and low power consumption.
**HLM-1510R**

**15-inch HDTV/SDTV Multi-format LCD Color Monitor**

The HLM-1510R employs a 15-inch LCD panel and achieves space-saving, light weight, and low power consumption, providing HDTV/SDTV multi-format SDI and VBS inputs as standard. It is designed with a compact size of 6RU height, specifically suitable to replace an existing 14-inch CRT monitor without changing rack layout.

- **15-inch**
- **XGA (1024 x 768 pixel)**
- **Viewing Angle 170degree(H/V)**
- **Contrast Ratio 700:1**
- **38W**
- **VBS Input**
- **Y.P., P./RGB Input**
- **HD/SD-SDI Input**
- **Embedded AES/EBU Output**
- **Embedded Analog Audio Output**
- **Remote (Parallel)**
- **Remote (Serial)**
- **Marker**
- **Shadow**
- **Speaker**
- **VITC Display**
- **WFM Monitoring Display**
- **Split Screen**
- **Dot-by-Dot Display**
- **4:3/16:9**
- **10-Color Temperature Memory**
- **Remote (Infrared rays)**
- **Test Signal Generator**
- **6RU**
- **5.8kg (12.79lbs)**

**HLM-1510V**

**15-inch HDTV/SDTV Multi-format LCD Color Monitor**

The HLM-1510V employs a 15-inch LCD panel and achieves space-saving, light weight, and low power consumption, providing HDTV/SDTV multi-format SDI and VBS inputs as standard. It can be mounted in various locations such as on desks, monitor wall, etc.

- **15-inch**
- **XGA (1024 x 768 pixel)**
- **Viewing Angle 170degree(H/V)**
- **Contrast Ratio 700:1**
- **38W**
- **VBS Input**
- **Y.P., P./RGB Input**
- **HD/SD-SDI Input**
- **Embedded AES/EBU Output**
- **Embedded Analog Audio Output**
- **Remote (Parallel)**
- **Remote (Serial)**
- **Marker**
- **Shadow**
- **Speaker**
- **VITC Display**
- **WFM Monitoring Display**
- **Split Screen**
- **Dot-by-Dot Display**
- **4:3/16:9**
- **10-Color Temperature Memory**
- **Remote (Infrared rays)**
- **Test Signal Generator**
- **5.9kg (13.01lbs)**
Evolutional Feature for HLM-2610W, HLM-1711WR, HLM-1510R/V Multi-format LCD Monitor

**Variety of Input/Output**

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

2. **VBS inputs:**
   - 2ch each with loop through, NTSC/PAL auto detect.

3. **Analog Audio Input:**
   - Audio monitoring is available with the built-in speaker.

4. **Remote Control Interface:**
   - Serial remote signal input and parallel remote signal input.

5. **(Factory Option) EA-171/261DML 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, 7/8.
   - The audio can also output to the front speaker.
   - Note that EA-900A cannot co-reside with EA-900D digital output.

6. **(Factory Option) EA-171/261DML 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 EA-900D cannot co-reside with EA-900A analog output.

7. **(Factory Option) CM-171 module provides either Y, Pb, Pr or RGB input and EXT Sync input.**
   - It cannot co-reside with PC-171.

8. **(Factory Option) PC-171 module provides analog RGB and DVI-D input. (VGA/SVGA/XGA/WXGA)**
   - It cannot co-reside with CM-171.

**Versatile functions**

1. **(With the EA-171/261DML Audio Demux module (Factory option))**
   - Level meters for 8 channels of embedded audio can be superimposed over the video, providing space and cost savings for monitoring the video and the audio at the same time.
   - The contrast, position, and indicating channels can be set by menu.
   - Auto detect multi-format HD/SD-SDI input
   - Embedded audio can be monitored with the built-in speaker.

2. **WFM monitoring and VITC Time Code display function**
   - Waveform can be displayed for the input signal
   - HD-SDI signal with VITC display is available
   - Employing a 4:3 aspect LCD panel for HLM-1510R/V, Waveform and VITC Time Code can be displayed on the blanking area by shifting the 16:9 picture image to the upper side.

3. **Internal test signals**
   - 100% WINDOW signal
   - Grayscale test signal
   - ARIB(STD-B28) color bars

4. **Marker Display**
   - Various safety markers and Cross hatch
   - Various area markers with Shadow functions

5. **Split screen mode**
   - This function allows for comparing a captured still image and a camera live image.
   - In case of the HLM-1510R/V, the split screen can be displayed on right and left or top and bottom.

6. **Dot-by-Dot display**
   - This function for 1:1 scan without scaling

**Multiple Monitor Control**

- **In case of HLM-1711WR**

**The most suitable for rack mounting**

- **A 4:3 image displayed on the HLM-1711WR provides the same picture size as a 15” 4:3 conventional CRT monitor**

- **In 16:9, the picture image size of the HLM-1711WR is similar to that of a letterbox image on a conventional 19” monitor, providing the most efficient display in either 4:3/16:9 with considerable space savings.**

- **Owing to its 6RU rack height, the HLM-1510R can simply replace a conventional 14” CRT monitor.**
## Optional Accessories for HLM-series Monitors

### For HLM-2610W, HLM-1711WR, HLM-1510R/V

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-900A</td>
<td>Embedded Audio Analog Output Module XLR-5-pin, 2ch Embedded Analog Audio Outputs, EA-171/261DML required (*Factory Option)</td>
<td></td>
</tr>
<tr>
<td>EA-900D</td>
<td>Embedded AES/EBU Output Module BNC, 8ch Embedded AES/EBU Outputs, EA-171/261DML required (*Factory Option)</td>
<td></td>
</tr>
<tr>
<td>CM-171</td>
<td>Analog component Input Module 1ch Y, P, P+ or RGB Input, 1ch loop through EXT SYNC, cannot co-reside with PC-171 (*Factory Option)</td>
<td></td>
</tr>
<tr>
<td>PC-171</td>
<td>PC Input Module 1ch PC Analog RGB, 1ch DVI-D, cannot co-reside with CM-171 (*Factory Option)</td>
<td></td>
</tr>
<tr>
<td>RCT-30A</td>
<td>Infrared Remote Controller</td>
<td>Controls up to 99 monitors with loop through connection</td>
</tr>
</tbody>
</table>

### For HLM-1711WR, HLM-1510R/V

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-171DML</td>
<td>Audio Demux Module with Audio Level Meters Embedded Audio Output, 8ch Audio Level Meters (*Factory Option)</td>
<td></td>
</tr>
<tr>
<td>STD-1517T</td>
<td>Stand with tilt mechanism Till : up 15° / down 15°</td>
<td>VM-1510R/V required for HLM-1510R/V</td>
</tr>
<tr>
<td>STD-1517</td>
<td>VESA Arm Stand</td>
<td>------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>

### For HLM-2610W only

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-261DML</td>
<td>Audio Demux Module with Audio Level Meters Embedded Audio Output, 8ch Audio Level Meters (*Factory Option)</td>
<td></td>
</tr>
<tr>
<td>VM-2610</td>
<td>VESA Mount Adapter</td>
<td>for VESA mount</td>
</tr>
</tbody>
</table>

### For HLM-1711WR only

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-1710</td>
<td>19-inch Rackmount Adapter Fixed type, 7U high</td>
<td></td>
</tr>
<tr>
<td>RS-1710T</td>
<td>4-step angle, 7U high</td>
<td></td>
</tr>
</tbody>
</table>

### For HLM-1510R only

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>VM-1510R</td>
<td>VESA Mount Adapter</td>
<td>for VESA mount</td>
</tr>
<tr>
<td>RS-1510</td>
<td>19-inch Rackmount Adapter Fixed type, 6U high</td>
<td></td>
</tr>
</tbody>
</table>

### For HLM-1510V only

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>VM-1510V</td>
<td>VESA Mount Adapter</td>
<td>for VESA mount</td>
</tr>
</tbody>
</table>

---

**Images:**
- RS-1710T: HLM-1711WR, 19-inch Rackmount Adapter
- RS-1510: HLM-1510R, 19-inch Rackmount Adapter
- STD-1722: HLM-1711WR, HLM-1510R/V VESA Arm Stand
- STD-1517: HLM-1711WR, HLM-1510R/V Stand with tilt mechanism
- VM-1510R: HLM-1510R VESA Mount Adapter
- VM-1510V: HLM-1510V VESA Mount Adapter
- SRC-301Z: Serial Remote Controller
- RCT-30A: Infrared Remote Controller
The HLM-920WR employs a 9-inch wide screen LCD panel, with HDTV/SDTV multi-format SDI and VBS inputs as standard. It achieves compact, light weight, low power consumption, and also rack mountable in a 2-monitor configuration, suitable for use in all kinds of locations such as monitor wall, OB truck, etc.

The HLM-920WP employs a 9-inch wide screen LCD panel, with HDTV/SDTV multi-format SDI and VBS inputs as standard. It achieves compact, light weight, low power consumption, specifically suitable for field use with DC input and for battery operation with V-mount or Anton Bauer mount.
HLM-910R 8.4-inch HDTV/SDTV Multi-format LCD Color 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.

- **Dimensions**: 216 x 176 x 107 mm (8.5 x 6.9 x 4.2 in)
- **Weight**: 2.4 kg (5.29 lbs)
- **Panel**: 8.4 inch (4:3/16:9)
- **Resolution**: XGA (1024 x 768 pixels)
- **Input**: VBS, Y, P, P, P, RGB
- **Viewing Angle**: 170° (H/V)
- **Contrast Ratio**: 400:1
- **Power Consumption**: 26W
- **Input**: HD/SD-SDI Embedded, AES/EBU Embedded, Embedded Audio Input
- **Output**: Analog Audio Output
- **Remote**: (Serial, Parallel)
- **Color Memory**: 10-Color Temperature Memory
- **Other**: Speaker, VITC Display, WFM Monitoring Display

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

HLM-910P 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-910P is suitable for portable monitor, being available for DC input and for battery operation with V-mount or Anton mount.

- **Dimensions**: 216 x 176 x 107 mm (8.5 x 6.9 x 4.2 in)
- **Weight**: 2.1 kg (4.63 lbs)
- **Panel**: 8.4 inch (4:3/16:9)
- **Resolution**: XGA (1024 x 768 pixels)
- **Input**: VBS, Y, P, P, P, RGB
- **Viewing Angle**: 170° (H/V)
- **Contrast Ratio**: 400:1
- **Power Consumption**: AC: 27W, DC: 22W
- **Input**: HD/SD-SDI Embedded, AES/EBU Embedded, Embedded Audio Input
- **Output**: Analog Audio Output
- **Remote**: (Serial, Parallel)
- **Color Memory**: 10-Color Temperature Memory
- **Other**: Speaker, VITC Display, WFM Monitoring Display

▲ Option
Evolutional Feature for HLM-910R/P, HLM-920WR/WP 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) [Factory Option] EA-920DML Audio Demux module with level meter function + EA-900D provides 8-ch of AES/EBU digital embedded audio outputs. The audio can also output to the front speaker. 8-ch audio level meters can be superimposed over the video. Note that the EA-900D cannot co-reside with EA-900A analog output.
  - (4) [Factory Option] CM-900 module provides Y, P, P, ARIB(STD-B28) color bars
  - (5) Remote control interface: Serial remote signal input and Parallel remote signal input.
  - (6) [Factory Option] EA-920DML 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, 7/8. The audio can also output to the front speaker. 8-ch audio level meters can be superimposed over the video. The CM-900 cannot co-reside with the embedded audio options.
  - (7) Analog Audio input: The audio signal outputs to the front speaker for audio monitoring.

- **Versatile Functions**
  - (1) With the EA-920DML Audio Demux module (Factory option)
    - Level meters for 8 channels of embedded audio can be superimposed over the video, providing space and cost savings for monitoring the video and the audio at the same time.
    - The contrast, position, and indicating channels can be set by menu.
    - Auto detect multi-format HD/SD-SDI input
    - Embedded audio can be monitored with the built-in speaker
    - Either EA-900A or EA-900D is available for embedded audio outputs
  - (2) WFM monitoring and VITC Time Code display function
    - Waveform can be displayed for the input signal
    - HD-SDI signal with VITC Time Code display is available
  - (3) Internal test signals
    - 100% WINDOW signal
    - Grayscale test signal
  - (4) Marker Display
    - Various safety markers and Cross hatch
    - Various area markers with Shadow functions
  - (5) Split screen mode
    - This function allows for comparing a captured still image and a camera live image.
  - (6) Dot-by-Dot display
    - This function for 1:1 scan without scaling
  - (7) Analog Audio input
    - The audio signal outputs to the front speaker for audio monitoring.

- **Multiple Monitor Control**
  - Heat management design in the monitor allows for multiple units to be mounted together.
  - The optional SRC-301Z serial remote control panel can access up to 99 units.

- **Two models are available**
  - (1) HLM-910R/920WR:
    - 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-910P/920WP:
    - Portable design for field applications
    - Battery operation
    - AC operation is possible with XLR-4 plug, 12VDC power supply.

- **Rack mounting saves space**
  - Designed for a compact size of 4RU high, the HLM-910R/HLM-920WR can maintain almost the same picture size as a conventional 10-inch CRT monitor.

- **Rack mounting**
  - Saves space

- **Extendable Handle**
  - STD-900 desk-stand XLR-4, DC IN
  - V-mount or Anton mount
### Optional Accessories for HLM-series Monitors

**For HLM-920WR/920WP/910R/910P**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-920DML</td>
<td>Audio Demux Module with Audio Level Meters</td>
<td>Embedded Audio Output, 8ch Audio Level Meters (*Factory Option)</td>
</tr>
<tr>
<td>EA-900A</td>
<td>Embedded Audio Analog Outputs Module</td>
<td>XLR-5 pin, 2ch Embedded Analog Audio Outputs, EA-920DML required (*Factory Option)</td>
</tr>
<tr>
<td>CM-900</td>
<td>Analog component Input Module</td>
<td>Tch Y, Pk, Pr/RGB Input, tch EXT SYNC loop through, cannot co-reside with the embedded audio options (*Factory Option)</td>
</tr>
<tr>
<td>SRC-301Z</td>
<td>Serial Remote Controller</td>
<td>Controls up to 99 monitors with loop through connection</td>
</tr>
<tr>
<td>STD-900</td>
<td>Stand</td>
<td>(Standard for HLM-920WP/910P)</td>
</tr>
<tr>
<td>STD-920T</td>
<td>Tilt Stand</td>
<td>Tilt: max. 20°</td>
</tr>
<tr>
<td>AT-900</td>
<td>Tripod Mount Plate</td>
<td>1/4 &amp; 3/8 inch hole plate</td>
</tr>
</tbody>
</table>

**For HLM-920WR**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR-920</td>
<td>Dual Rackmount Adapter</td>
<td></td>
</tr>
<tr>
<td>BP-920</td>
<td>Blank Panel for DR-920</td>
<td></td>
</tr>
</tbody>
</table>

**For HLM-920WP**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR-920L</td>
<td>WFM Rackmount Adapter</td>
<td>for HLM-920WP+Leader LV5750, 4U high</td>
</tr>
<tr>
<td>WR-920L2</td>
<td>WFM Rackmount Adapter</td>
<td>for HLM-920WP+Leader LV5700A/5710A, 4U high</td>
</tr>
<tr>
<td>WR-920C</td>
<td>WFM Rackmount Adapter</td>
<td>for HLM-920WP+Tektronics WF700-series, 4U high</td>
</tr>
<tr>
<td>GR-900</td>
<td>Handle</td>
<td></td>
</tr>
</tbody>
</table>

**For HLM-910R/910P**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR-910</td>
<td>Dual Rackmount Adapter</td>
<td></td>
</tr>
<tr>
<td>BP-900</td>
<td>Blank Panel for DR-910</td>
<td></td>
</tr>
<tr>
<td>WF-910</td>
<td>VITC &amp; WFM Display function</td>
<td>(*Factory Option)</td>
</tr>
</tbody>
</table>

**For HLM-910R**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR-900L</td>
<td>WFM Rackmount Adapter</td>
<td>for HLM-910R+Leader LV5750, 4U high</td>
</tr>
<tr>
<td>WR-900L2</td>
<td>WFM Rackmount Adapter</td>
<td>for HLM-910R+Leader LV5700A/5710A, 4U high</td>
</tr>
<tr>
<td>WR-900C</td>
<td>WFM Rackmount Adapter</td>
<td>for HLM-910R+Tektronics WF700-series, 4U high</td>
</tr>
<tr>
<td>GR-900</td>
<td>Handle</td>
<td></td>
</tr>
</tbody>
</table>

**For HLM-910P**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MH-900</td>
<td>Collapsible Hood</td>
<td></td>
</tr>
<tr>
<td>CC-900</td>
<td>Hard Carrying Case</td>
<td></td>
</tr>
<tr>
<td>SC-900</td>
<td>Soft Carrying Case</td>
<td></td>
</tr>
</tbody>
</table>

---

**STD-900** Stand  
**STD-920T** Tilt Stand  
**DR-910** HLM-910R/910P  
**BP-900** HLM-910R/910P  
**WR-900L** HLM-910R  
**MH-900** Collapsible Hood  
**CC-900** HLM-910P  
**GR-900** HLM-920WR/910R  
**SC-900**  
**DR-920**  

---

**For HLM-910R/910P**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR-920</td>
<td>Dual Rackmount Adapter</td>
<td></td>
</tr>
<tr>
<td>BP-900</td>
<td>Blank Panel for DR-920</td>
<td></td>
</tr>
</tbody>
</table>

---

**For HLM-910P**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MH-900</td>
<td>Collapsible Hood</td>
<td></td>
</tr>
<tr>
<td>CC-900</td>
<td>Hard Carrying Case</td>
<td></td>
</tr>
<tr>
<td>SC-900</td>
<td>Soft Carrying Case</td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>HLM-2610W</td>
<td>HLM-1711WR</td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>Number of Pixel (WUXGA)</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Resolution</td>
<td>1920 x 1080</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>Number of Pixel (HDL)</td>
<td>2560 x 1600</td>
<td>2560 x 1600</td>
</tr>
<tr>
<td>Resolution</td>
<td>3840 x 2160</td>
<td>3840 x 2160</td>
</tr>
<tr>
<td>Number of Pixel (VGA)</td>
<td>640 x 480</td>
<td>640 x 480</td>
</tr>
<tr>
<td>Resolution</td>
<td>720 x 480</td>
<td>720 x 480</td>
</tr>
<tr>
<td>Number of Pixel (SVGA)</td>
<td>800 x 600</td>
<td>800 x 600</td>
</tr>
<tr>
<td>Resolution</td>
<td>1280 x 1024</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Number of Pixel (XGA)</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Resolution</td>
<td>1280 x 1024</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Number of Pixel (QXGA)</td>
<td>2048 x 1536</td>
<td>2048 x 1536</td>
</tr>
<tr>
<td>Resolution</td>
<td>2560 x 1920</td>
<td>2560 x 1920</td>
</tr>
</tbody>
</table>

^1 Available with SDI Input only  
^2 Available with RGB/Y, P, P+ Input only  
^3 Maximum Power Consumption at Standard Configuration