High Definition Color Monitor

HDVS
High Definition Video System

HDM-1230/HDM-1230E

Features (HDM-1230/1230E)

- 12-inch visible picture measured diagonally.
- 16 : 9 aspect ratio.
- SMPTE standard phosphor.
- 525 lines non-interlaced signal (IDTV decoder output) input is possible.
- Adjustable color temperature.
- The beam detecting circuit system allows black level and color temperature to be stabilized.
- Tri-level sync system.
- G, B, R/Y, P_B, P_R inputs both are available.
- H Delay, V Delay and Underscan facilities are provided for monitoring or evaluating of camera/VTR signals.
- The pulse adding current is used for precise brightness and contrast control.
- 9 independent sections of the screen for convergence adjustment.
- 7 types of test signals are incorporated.
- Aperture adjustment in RGB mode.
- EIA standard 19-inch rack mountable.

HDM-1730/HDM-1730E

Features (HDM-1730/1730E)

- 17-inch visible picture measured diagonally.
- 16 : 9 aspect ratio.
- SMPTE standard phosphor.
- 525 lines non-interlaced signal (IDTV decoder output) input is possible.
- Adjustable color temperature.
- The beam detecting circuit system allows black level and color temperature to be stabilized.
- Tri-level sync system.
- G, B, R/Y, P_B, P_R inputs both are available.
- H Delay, V Delay and Underscan facilities are provided for monitoring or evaluating of camera/VTR signals.
- The pulse adding current is used for precise brightness and contrast control.
- 15 independent sections of the screen for convergence adjustment.
- 7 types of test signals are incorporated.
- Aperture adjustment in RGB mode.
- EIA standard 19-inch rack mountable.

Typical Monitor Control Panel (from the HDM-2830/2830E)

HDM-2830/HDM-2830E

Features (HDM-2830/2830E)

- 28-inch visible picture measured diagonally.
- 16 : 9 aspect ratio.
- Flat and square screen is adopted.
- The anti-reflection coating provides high contrast.
- SMPTE standard phosphor.
- 525 lines non-interlaced signal (IDTV decoder output) input is possible.
- Adjustable color temperature.
- The beam detecting circuit system allows black level and color temperature to be stabilized.
- Tri-level sync system.
- G, B, R/Y, P_B, P_R inputs both are available.
- H Delay, V Delay and Underscan facilities are provided for monitoring or evaluating of camera/VTR signals.
- The pulse adding current is used for precise brightness and contrast control.
- Digital convergence system is incorporated. (25 points adjustable for the entire screen).
- 7 types of test signals are incorporated.
- Aperture adjustment in RGB mode.

HDM-3830/HDM-3830E

Features (HDM-3830/3830E)

- 38-inch visible picture measured diagonally.
- 16 : 9 aspect ratio.
- Flat and square screen is adopted.
- The anti-reflection coating provides high contrast.
- SMPTE standard phosphor.
- 525 lines non-interlaced signal (IDTV decoder output) input is possible.
- Adjustable color temperature.
- The beam detecting circuit system allows black level and color temperature to be stabilized.
- Tri-level sync system.
- G, B, R/Y, P_B, P_R inputs both are available.
- H Delay, V Delay and Underscan facilities are provided for monitoring or evaluating of camera/VTR signals.
- The pulse adding current is used for precise brightness and contrast control.
- The digital uniformity circuit allows the white uniformity to be improved.
- Digital convergence system is incorporated. (25 points adjustable for the entire screen)
- 7 types of test signals are incorporated.
- Aperture adjustment in RGB mode.

Specifications

	HDM-1230/1230E	HDM-1730/1730E	HDM-2830/2830E	HDM-3830/3830E
Picture tube	Super Fine Pitch Trinitron 0.26mm phosphor trio pitch 12-inch visible picture measured diagonally	Super Fine Pitch Trinitron 0.31mm phosphor trio pitch 17-inch visible picture measured diagonally	Super Fine Pitch Trinitron 0.35mm phosphor trio pitch 28-inch visible picture measured diagonally	Super Fine Pitch Trinitron 0.46mm phosphor trio pitch 38-inch visible picture measured diagonally
Picture height	151mm	217mm	349mm	477mm
Picture width	268mm	385mm	620mm	852mm
Aspect ratio	16 : 9	16 : 9	16 : 9	16 : 9
Resolution	Center: H 600 TV lines V 750 TV lines Corner: H 580 TV lines V 700 TV lines	Center: H 760 TV lines V 750 TV lines Corner: H 700 TV lines V 700 TV lines	Center: H 1000 TV lines V 750 TV lines Corner: H 950 TV lines V 750 TV lines	Center: H 1000 TV lines V 750 TV lines Corner: H 950 TV lines V 750 TV lines
Input/output Video	G, B, R/Y, P_B, P_R with loop-through (BNC × 6)	G, B, R/Y, P_B, P_R with loop-through (BNC × 6)	G, B, R/Y, P_B, P_R with loop-through (BNC × 6)	G, B, R/Y, P_B, P_R with loop-through (BNC × 6)
Sync	Tri-level sync, bi-level sync, or HD/VD	Tri-level sync, bi-level sync, or HD/VD	Tri-level sync, bi-level sync, or HD/VD	Tri-level sync, bi-level sync, or HD/VD
Remote	10-pin connector	10-pin connector	10-pin connector	10-pin connector
Frequency response	60Hz to 30MHz ±3dB	60Hz to 30MHz ±3dB	60Hz to 30MHz ±3dB	60Hz to 30MHz ±3dB
Linearity	DG: Less than 5%	DG: Less than 5%	DG: Less than 5%	DG: Less than 5%
Convergence	Center: Less than 0.3mm Corner: Less than 0.5mm	Center: Less than 0.4mm Corner: Less than 0.7mm	Center: Less than 0.5mm Corner: Less than 0.8mm	Center: Less than 0.7mm Corner: Less than 1.0mm
Color temperature	Preset mode: 6500K Manual mode: adjustable (6500K at ex-factory)	Preset mode: 6500K Manual mode: adjustable (6500K at ex-factory)	Preset mode: 6500K Manual mode: adjustable (6500K at ex-factory)	Preset mode: 6500K Manual mode: adjustable (6500K at ex-factory)
Power requirements	AC 100 - 120V, 220 - 240V ±10%, 50/60Hz	AC 100 - 120V, 220 - 240V ±10%, 50/60Hz	AC 100 - 120V, 220 - 240V ±10%, 50/60Hz	AC 100 - 120V, 220 - 240V ±10%, 50/60Hz
Power consumption	160W	230W	330W	350W
Operating temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Operating humidity	10% to 85% (non-condensing)	10% to 85% (non-condensing)	10% to 85% (non-condensing)	10% to 85% (non-condensing)
Dimensions	Approx. 480(W) × 284(H) × 512(D)mm (19 × 11 1/4 × 20 1/4")	Approx. 480(W) × 456(H) × 628(D)mm (19 × 18 × 24 3/4")	Approx. 754(W) × 615(H) × 677(D)mm (29 3/4 × 24 1/4 × 26 3/4")	Approx. 1030(W) × 764(H) × 865(D)mm (40 5/8 × 30 1/8 × 34 1/8")
Weight	Approx. 26Kg (57 lb 5 oz)	Approx. 43.2Kg (95 lb 4 oz)	Approx. 92Kg (202 lb 13 oz)	Approx. 184Kg (405 lb 8 oz)

High Definition Projection System

HDVS
High Definition Video System

High Definition Projector
HDIH-1200/1200M, HDIH-2000/2000M (Projection Head)

Large screen HD projector is extremely effective when viewing the quality and appeal of your product. Sony High Definition projectors, the HDIH-1200/1200M and HDIH-2000/2000M offer large scale image display from 100 to 200 inches and can be used in a variety of applications.

Features

- Automatically selected aspect ratio
  16 : 9 for HDTV
  4 : 3 for four color standards (NTSC, PAL, SECAM, NTSC4.43)
- Large screen display is available.
  HDIH-1200/1200M—Display in size from 100" to 130" diagonally
  HDIH-2000/2000M—Display in size from 150" to 200" diagonally
- LC^2 (Liquid Coupling and Cooling) system for high contrast ratio.
- Both ceiling and table top set-up possible.
- High performance HACC lens provides accurate picture reproduction.
- Wireless and wired remote control.
- Digital registration adjustment.
- Lens focus is remotely controlled for easy operation.
- Instructions and indications for adjustments are displayed on the screen.
- Test signals for white balance, registration and focus adjustments etc. are incorporated.
- Rear projection is available with HDIH-1200/1200M (Projection head) and HDIS-1200RK* (Rear screen kit).

System Composition

The system is composed of the following components.

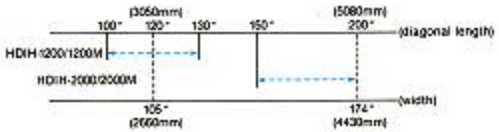
• HDIH-1200/1200M	Sony HD Projection Head (supplied with remote commander)
• HDIH-2000/2000M	Sony HD Projection Head (supplied with remote commander)
• HDIS-1200C1	Sony HD Screen (Semi Curved 120", 16 : 9 aspect ratio)
• HDIB-1200C	Sony HD Screen Stand (for the HDIS-1200C1)
• HDIS-1200RK	Sony HD Rear Screen Kit*

*This kit includes mirror with stand, twin-stack projector stand, rear screen with frame, and frame for installation.

HDIH Remote Commander RM-1200

Screen Size Chart

The HDIH-1200/1200M and HDIH-2000/2000M adapt to a range of display sizes, from 100" to 200" diagonal as the following chart shows:



HDIH Connector Panel

Specifications

	HDIH-1200/1200M	HDIH-2000/2000M
General Power requirements	AC 120V, 50/60Hz (HDIH-1200) AC 220 - 240V, 50/60Hz (HDIH-1200M)	AC 120V, 50/60Hz (HDIH-2000) AC 220 - 240V, 50/60Hz (HDIH-2000M)
Power consumption	Approx. 480W	Approx. 480W
Horizontal resolution	1000TV lines (at screen center)	1000TV lines (at screen center)
Vertical resolution	850TV lines (at screen center)	850TV lines (at screen center)
Horizontal frequency	15KHz to 35KHz	15KHz to 35KHz
Vertical frequency	50Hz to 120Hz	50Hz to 120Hz
Video bandwidth	30MHz	30MHz
Brightness	300 lumen (peak white) 100 lumen (all white)	300 lumen (peak white) 100 lumen (all white)
Input	G/Y, B/P_B, R/P_R, HD, VD (×2 lines): BNC, 75 ohm terminated Composited video: BNC, 75 ohm terminated Y/C: Din-4pin, 75 ohm terminated	G/Y, B/P_B, R/P_R, HD, VD (×2 lines): BNC, 75 ohm terminated Composited video: BNC, 75 ohm terminated Y/C: Din-4pin, 75 ohm terminated
Operating temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Weight	Projection head: Approx. 99Kg (218 lb 4 oz) Semi curved screen (120") Approx. 100Kg (220 lb 7 oz) Rear screen kit (120") Approx. 320Kg (705 lb 8 oz) Stand for semi curved screen Approx. 180kg (397 lb 1 oz)	Projection head: Approx. 99Kg (218 lb 4 oz)
Dimensions	Projection head: 743(W) × 402(H) × 998(D)mm (29 3/8 × 15 7/8 × 39 3/8") Rear screen kit*: 4850(W) × 2300(H) × 3000(D)mm (191 × 90 5/8 × 118 1/8") Semi curved screen: 2857(W) × 1694(H) × 163(D)mm (112 1/2 × 66 3/4 × 6 1/2") Stand for semi curved screen: 1000(W) × 2000(H) × 1000(D)mm (39 3/8 × 78 3/4 × 39 3/8")	Projection head: 743(W) × 402(H) × 998(D)mm (29 3/8 × 15 7/8 × 39 3/8")
Optical Projection system	3 picture tubes, 3 lenses, horizontal in-line system	3 picture tubes, 3 lenses, horizontal in-line system
Picture tube	9" high brightness, magnetic focus CRT, Impre-cathode, LC^2 (Liquid Coupling and Cooling) System	9" high brightness, magnetic focus CRT, Impre-cathode, LC^2 (Liquid Coupling and Cooling) System
Lenses	High performance HACC lens F1.24, f172mm Anti-reflection coating	High performance HACC lens F1.25, f175mm Anti-reflection coating
Projection size	100" to 130" diagonally	150" to 200" diagonally

Design and specifications subject to change without notice.


SONY