JVC®

The Perfect Experience

40-INCH PROFESSIONAL LCD DISPLAY MONITOR

GM-H40L1G

High performance and reliability. Flexible inputs.
Slim design and mountable flush with the wall.

For NTSC AREA

High performance, strong dependability and flexible installation make the GM-H40L1G perfect for professional applications

Creating Systems with Ease

- Wide range of inputs and control connectors
- Slim design with side-vent cooling for flush mounting
- Easily replaceable bezel for applying custom colors

Outstanding Reliability

- No screen burn-in
- Self-diagnostic indicator lights. Anti-theft security lock
- Eco sensor available for self-adjusting brightness level

Enhanced Features

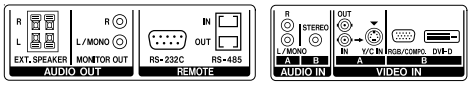
- High-speed input switching
- Digital zoom function
- Picture-in-picture and picture-by-picture displays

No longer used only for display purposes, flat panel screens now must be versatile enough to integrate with a wide range of equipment and to be mountable in a variety of positions and locations. Security, longevity and high contrast levels for clear viewing in bright surroungings are also key factors when selecting the right model. JVC's new LCD monitor GM-H40L1G meets all these requirements, having been designed specifically to answer the sometimes extreme demands of today's professional integrators and installers.

Creating Systems with Ease

Wide Range of Inputs and Control Connectors

Whether you are an installer or system integrator, the main concern when selecting a monitor is versatile connectivity. And this is where the GM-H40L1G excels, as it is equipped with an impressive array of standard inputs and external controls.



Connectors on the GM-H40L1G

Standard Inputs and Optional Input IF-C Cards

The GM-H40L1G is compatible with a large number of signal formats.

Analog: Composite,Y/C and RGB. Digital: DVI-D, RGB, SDI, HD SDI and HDMI™

STANDARD INPUTS		
Signal type	Video Inputs	Input type
DVI-D	x 1	DVI-D
Analog RGB	x 1	D-sub 15p
Composite; YC	x 1	BNC; 4p
Component	x 1	D-sub 15p

OPTIONAL INPUT CARDS (2 slots available)			
Model ref	Slots reqd	Signal type	Video inputs
IF-CF21HDG	1	HD SDI & SDI	x 2
IF-CF21SDG	1	SDI	x 2
IF-CF01PNG	1	Composite	x 1
IF-CF01CMG	1	RGB / Component	x 1
IF-CF01RBG	2	RGB / Component Active loop-through	x 1
IF-CF01HMG	1	HDMI (available 2006)	x 1

External Controls

Type	Connector	Control
RS-232C	D-Sub 9-pin	via PC
RS-485	RJ 45	via PC
MAKE	RJ 45	Direct
TRIGGER	RJ 45	Direct
IR OUT	RJ 45	via set-top box

The GM-H40L1G offers a variety of external control terminals, such as the widely-used RS-232C and RS-485. Where longer cable lengths are required a MAKE / TRIGGER function is available, as is also RJ45 for LAN control.

Design Structure for Professional Use

Slim Design and Flexible Mounting Possibilities

The GM-H40L1G features a totally **flat rear panel** without any air vents and so the monitor requires no air gap at its rear. This means that installation can be **flush against the wall** or ceiling. Its design is also **slim and symmetrical**. Heat management is by a thermostatically controlled, variable-speed fan that operates silently, meaning that the GM-H40L1G monitor can be just as readily mounted **horizontally or vertically**. The above features combine to enable two units to be **installed back to back.**

Custom Colors Easy to Adopt by Way of Bezel and Rear Panel being Easily Replaced*

The bezel and rear panel are easy to replace, so that the external color of the monitor can be customized to match corporate colors or to blend in with surroundings. Similarly, when the monitor is in a location with direct public access, its outward appearance can then be quickly brought back to new by simply replacing the bezel, if it has become scratched or dented.

*Cabinet replacement should only be carried out by a trained professional.

VESA FDMI™ Standard Compliant Fixture Points

The rear panel incorporates VESA FDMI™ Standard fixture points to ensure that installation will always be quick and simple. (dimensions: 400 mm x 200 mm)

RM-C2005

40-INCH PROFESSIONAL LCD DISPLAY MONITOR

GM-H40L1G

Outstanding Reliability

Long-lasting LCD

Unlike plasma monitors, LCD uses backlighting technology to eliminate screen burn-in. And thanks to the **automatic sleep function**, the unit will turn off automatically when no signal is detected from connected equipment after a specified time. This helps to reduce unnecessary use of the backlight, increasing screen life and saving overall energy consumption.

Eco Sensor

Eco sensor automatically detects ambient light levels and adjusts brightness to reduce excessive luminance, helping to provide more comfortable viewing while extending the life of the LCD panel's backlight.

Control Lock

Control buttons are prominently located at the top of the panel to prevent unintentional operation, and these can be locked to deter unwanted operation when the unit is used in public venues at such as storefronts and exhibits.

Self-diagnostic LED Indicator

A self-diagnostic LED indicator, which will light up or flash in the event of a malfunction, is located next to the Eco sensor. What's more, the indication can be detected via external control terminals allowing for recognition from a remote location.

Security Lock for Theft Prevention

The GM-H40L1G is fully equipped with security features to lessen the chance of theft. An original ID can be set via the supplied remote control to lock and disable operation. There is also a **security lock key** on the panel mount* that secures the monitor onto the mount.

**Security lock is not available for the tabletop stand.*

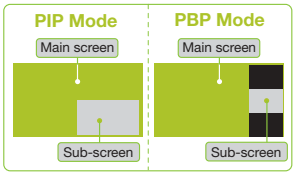
Array of Enhanced Features

High-speed Input Switching

This feature enables instantaneous switching (less than one second) of two selected inputs and is particularly useful for applications, such as security, which call for high speed input switching.

Pro Version Picture-in-Picture and Picture-by-Picture

The dual image display functions, PIP Pro and PBP Pro, are available via the menu of the GM-H40L1G. PIP (Picture-in-Picture) enables the display of a sub-screen – with selectable size and position – within the main screen. PBP (Picture-by-Picture) will display the main screen and the sub-screen together, side-by-side, separated by a user selectable line separating the two screens. It is possible for both functions to be displayed in the widescreen 16:9 ratio and selecting the appropriate input terminal allows you to choose between the main screen and sub-screen.



Digital Zoom Function

The digital zoom function will allow simple creation of a multi-screen system without having to spend extra on costly splitter products.

Power-on Delay

Once activated, JVC's special Power-on Delay function reduces the load on the studio's main power supply when multiple units are powered up simultaneously.

Hour Meters

Dual hour meters are available. The main meter displays aggregate operating hours while the sub-hour meter displays daily usage time.

Optional IF-C Cards and Applications

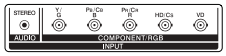
Two slots for optional IF units or cards are available, which are located next to the input terminals. There are 6 units*/cards available: 1) RGB & component active-through unit; 2) RGB & component unit; 3) HD/SD-SDI unit; 4) SD-SDI unit; 5) composite unit; and 6) HDMI™ unit*.

**HDMI™ unit will be available in 2006.*

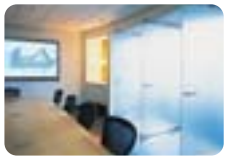
IF-CF01RBG RGB/Component Active-Through

- Optional IF-C unit for active-through input of analog RGB and analog component signals
- Superb image display of up to UXGA in native resolution
- Compatible with 15K analog RGB signal

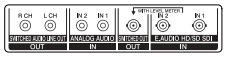
IF-CF01CMG RGB/Component



- Optional IF-C unit for input of analog RGB and analog component signals
- Superb image display of up to UXGA in native resolution
- Compatible with 15K analog RGB signal

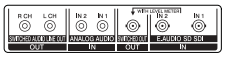


IF-CF21HDG HD/SD-SDI with Embedded Audio



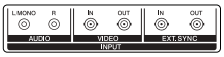
- SDI signal chain connection capability via bridge out
- Embedded audio bridged out
- 1080/24psF, 1080/24p and 1080/30p compatibility

IF-CF21SDG SD-SDI with Embedded Audio



- SDI signal chain connection capability via bridge out
- Embedded audio bridged out

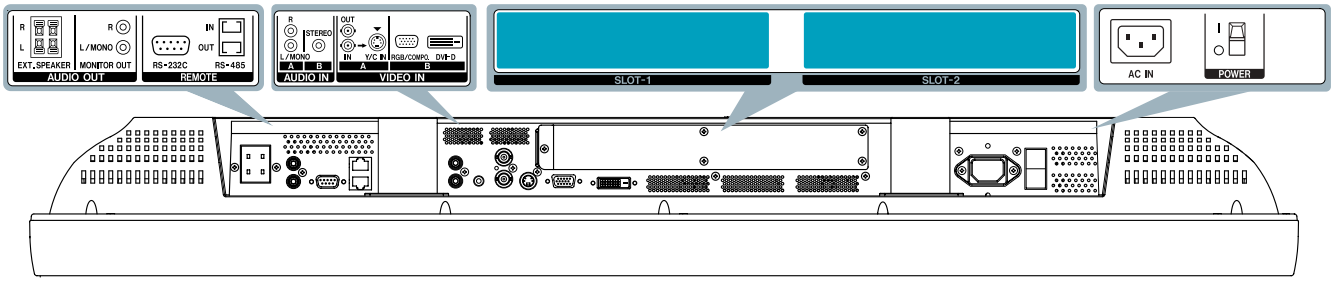
IF-CF01PNG Composite



- Compatible with NTSC, PAL, SECAM, PAL-M, PAL-N, PAL60, and NTSC4.43
- Capable of handling external sync signals

IF-CF01HMG HDMI™ (available in 2006)

Rear Terminals



Viewed from underneath

Specifications

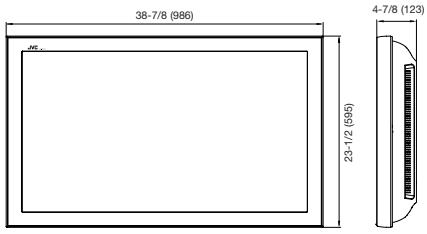
Model		GM-H40L1G
Bezel color		Dark Gray
LCD panel type		Widescreen 40'' V diagonal, active matrix TFT display monitor
Aspect ratio		16:9
Screen size (W x H)		34-7/8" x 19- 5/8" (885 mm x 498 mm)
Number of pixels		Horizontal 1366 x vertical 768
Display colors		16.77 million (RGB each of 256 levels)
Viewing angle		Vertical: 170° / Horizontal: 170°
Brightness		400 cd/m² with auto-sensing level adjustment
Weight		59lbs (26.8 kg)
Dimensions (W x H x D)		38-7/8" x 23-1/2" x 4-7/8" (986 mm x 595 mm x 123 mm)
Power requirement		120V/220-240V AC, 50/60Hz
Power consumption		2.4 A
Audio output	Built-in	3.4 W total (impedance at 8 Ω)
	External	6 Ω to 8 Ω 4.4 W total (impedance at 6 Ω)

Model		GM-H40L1G
Built-in speakers		Two 4 x 7cm oval, 8 Ω impedance
Operating environment conditions*	Temperature range	0° to +40°C
	Humidity range	20% to 80%, non condensation
Input/output terminals, built-in		
VIDEO IN A	Input	BNC x1, 1 V (p-p) 75 Ω
		Y/C x 1, Y: 1 V (p-p) 75 Ω; C: 0.286 V (p-p) 75 Ω (NTSC, burst)
	Output	BNC x1, 1 V (p-p) 75 Ω
VIDEO IN B	RGB/ COMPONENT	D-sub 3-row 15-pin x1
		Video signal: 0.7 V (p-p) 75 Ω
		Horizontal sync (HD)/Component sync (Cs)
		HD: 0.3 V (p-p) — 5 V (p-p) 1k Ω (positive-negative)
		Cs: 0.3 V (p-p) — 5 V (p-p) 1k Ω (positive-negative)
		Vertical sync (VD)
		VD: 1V (p-p) — 5V (p-p) 470 Ω (positive-negative)
	DVI	x1
AUDIO IN A	Audio input	Pin-jack x2 (L/R), 500 mV (RMS) high impedance
AUDIO IN B	Audio input	Stereo mini jack x1 (L/R), 500 mV (RMS) high impedance
REMOTE	RS-232C input	D-sub 9-pin x1 (for RS-232C control)
	RS-485 input	RJ-45 pin x1 (for RS-485, MAKE, TRIGGER controls)
	RS-485 output	RJ-45 pin x1 (for RS-485, IR OUT controls)
AUDIO OUT	Monitor output	Pin-jack x2 (L/R), 600 Ω output impedance
	External speaker	Speaker output x2 (L/R), 6 Ω — 8 Ω impedance

*Criteria may vary.

Dimensions

Unit: inch (mm)



Applicable Signal Format

MODEL					Monitor		Optional Card				
					GM-H40L1G		IF-CF01RBG	IF-CF01CMG	IF-CF21HDG	IF-CF21SDG	IF-CF01PNG
DIGITAL / ANALOG INPUT					ANALOG	DIGITAL	ANALOG	ANALOG	DIGITAL	DIGITAL	ANALOG
■ RGB-SIGNAL FORMAT											
FORMAT	PIXEL		fv (Hz)	fh (kHz)	fCLK (MHz)						
VGA	640x400@56Hz (Industry STD)		56.416	24.823	21.050	YES	—	YES	YES	—	—	—
	640x480@60Hz (Industry STD)		59.940	31.469	25.175	YES	YES	YES	YES	—	—	—
	640x400@70Hz (IBM STD)		70.100	31.475	25.180	YES	—	YES	YES	—	—	—
	640x480@72Hz (VESA STD)		72.809	37.861	31.500	YES	—	YES	YES	—	—	—
	640x480@75Hz (VESA STD)		75.000	37.500	31.500	YES*	—	YES*	YES*	—	—	—
	640x480@85Hz (VESA STD)		85.008	43.269	36.000	YES*	—	YES*	YES*	—	—	—
WVGA	852X480@60Hz		60.317	37.879	40.000	YES*	—	YES*	YES*	—	—	—
SVGA	800x600@60Hz (VESA G/L)		60.317	37.879	40.000	YES	YES	YES	YES	—	—	—
	800x600@72Hz (VESA STD)		72.188	48.077	50.000	YES*	—	YES*	YES*	—	—	—
	800x600@75Hz (VESA STD)		75.000	46.875	49.500	YES*	—	YES*	YES*	—	—	—
	800x600@85Hz (VESA STD)		85.061	53.674	56.250	YES*	—	YES*	YES*	—	—	—
XGA	1024x768@60Hz		60.004	48.363	65.000	YES	YES	YES	YES	—	—	—
	1024x768@70Hz		70.069	56.476	75.000	YES	—	YES	YES	—	—	—
	1024x768@75Hz		75.029	60.023	78.750	YES	—	YES	YES	—	—	—
	1024X768@85Hz		84.997	68.677	94.500	YES	—	YES	YES	—	—	—
XGA+	1152x864@75Hz		75.000	67.500	108.000	YES	—	YES	YES (No Just Sampling)	—	—	—
WXGA	1366x768@60Hz		60.004	48.363	86.715	YES	YES	YES	YES	—	—	—
SXGA	1280x1024@60Hz (VESA STD)		60.020	63.981	108.000	YES	YES	YES	YES (No Just Sampling)	—	—	—
	1280x1024@75Hz (VESA STD)		75.025	79.976	135.000	YES	YES	YES	YES (No Just Sampling)	—	—	—
	1280x1024@85Hz (VESA STD)		85.024	91.146	157.500	YES*	—	—	—	—	—	—
UXGA	1600x1200@60Hz (VESA STD)		60.000	75.000	162.000	YES	—	YES	YES (No Just Sampling)	—	—	—
Mac	13	640x480	66.667	35.000	30.240	YES	—	YES	YES	—	—	—
	16	832x624	74.550	49.725	57.280	YES	—	YES	YES	—	—	—
	19	1024x768	74.927	60.241	80.000	YES	—	YES	YES	—	—	—
	21	1152x870	75.062	68.681	100.000	YES	—	YES	YES (No Just Sampling)	—	—	—
480/60i (RGB15k)		525x858	60/59.94	15.75/15.734	—	YES	—	YES	YES	—	—	—
576/50i (RGB15k)		625x864	50.00	15.625	—	YES	—	YES	YES	—	—	—
■ ANALOG COMPOSITE-SIGNAL FORMAT											
FORMAT	TOTAL LINES	PIXEL	fv (Hz)	fh (kHz)	fCLK (MHz)						
NTSC	525	—	59.94	15.734	—	YES	—	—	—	—	—	YES
PAL	625	—	50.00	15.625	—	YES	—	—	—	—	—	YES
SECAM	625	—	50.00	15.625	—	YES	—	—	—	—	—	YES
PAL60	525	—	59.94	15.734	—	YES	—	—	—	—	—	YES
NTSC 4.43	525	—	59.94	15.734	—	YES	—	—	—	—	—	YES
PAL-M	525	—	59.94	15.734	—	YES	—	—	—	—	—	YES
PAL-N	625	—	50.00	15.625	—	YES	—	—	—	—	—	YES
■ COMPONENT-SIGNAL FORMAT											
FORMAT	ACTIVE LINES	PIXEL	fv (Hz)	fh (kHz)	fCLK (MHz)						
480/60i (SMPTE 125M)	483	720x483	60/59.94	15.75/15.734	13.5	YES	—	YES	YES	YES (with E.A.**)	YES (with E.A.**)	—
576/50i (ITU-R BT.601)	576	720x576	50.00	15.625	13.5	YES	—	YES	YES	YES (with E.A.**)	YES (with E.A.**)	—
480/60p (SMPTE 293M)	480	720x483	60/59.94	31.5/31.469	27.00/26.97	YES	—	YES	YES	—	—	—
576/50p (ITU-R BT 1358)	576	720x576	50.00	31.25	27.00	YES	—	YES	YES	—	—	—
720/60p (SMPTE 296M)	720	1280x720	60/59.94	45/44.955	74.25/74.18	YES	—	YES	YES	YES (with E.A.**)	—	—
720/50p (SMPTE 296M	720	1280x720	50.00	37.5	74.25	YES	—	YES	YES	YES (with E.A.**)	—	—
1035/60i (SMPTE 240M)	1035	1920x1035	60/59.94	33.75/33.716	74.25/74.18	YES	—	YES	YES	YES (with E.A.**)	—	—
1080/60i (SMPTE 274M)	1080	1920x1080	60/59.94	33.75/33.716	74.25/74.18	YES	—	YES	YES	YES (with E.A.**)	—	—
1080/50i (SMPTE 274M)	1080	1920x1080	50.00	28.125	74.25	YES	—	YES	YES	YES (with E.A.**)	—	—
1080/24pF (SMPTE RP211)	1080	1920x1080	48.00	27.00	74.25	YES	—	YES	YES	YES (with E.A.**)	—	—
1080/24p (SMPTE 274M)	1080	1920x1080	24/23.98	27.00/26.97	74.25/ 74.18	—	—	—	—	YES (with E.A.**)	—	—
1080/30p (SMPTE 274M)	1080	1920x1080	30/29.97	33.75/33.716	74.25/ 74.18	—	—	—	—	YES (with E.A.**)	—	—

* Not preset. Manual adjustment of aspect and position may be required. ** E.A.: Embedded Audio.

Accessories

Desktop Stand
TS-CL03SG (optional)

- Rotating base
- Durable yet stylish aluminum diecast frame

Wall Mounting Unit
TS-CV20WG (optional)

- VESA FDMI™ Standard compliant (Dimensions: 400 mm x 200 mm)
- Slim design
- Fixed type

Remote Control
RM-C2005 (supplied)

JVC®

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