JVC®

The Perfect Experience

50-INCH PLASMA DISPLAY MONITOR

GM-X50

High-Resolution, Flat Plasma Display for Professionals

Extra-bright Plasma Solutions for Professional Applications

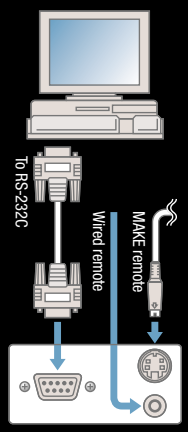
The ideal large-screen imaging solution for large-scale high-visibility applications like shows and showrooms. Its immense 50-inch Wide-XGA plasma display delivers bright, high-contrast images for a variety of applications. And with integrated amp, speakers, and even self-diagnostics, it is ready to be your all-in-one solution for effective and reliable audiovisual presentations.

Quality Larger than Life,

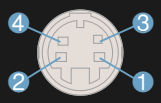
RS-232C Terminal & MAKE Remote for Professional Applications

Connect to a PC directly through the RS-232C terminal, and command selection can be done from a PC. Moreover, the GM-X50 features a MAKE Remote function that allows monitor power on/off operation and input selection from an external control unit*. To do this, simply connect the control unit to the MAKE Terminal (mini DIN, 4-pin) on the rear panel. A wired remote control unit can be connected via the WIRED Terminal (stereo mini jack) located below the MAKE Remote terminal.

**Not available commercially. Consult JVC dealer for availability.*



MAKE Terminal



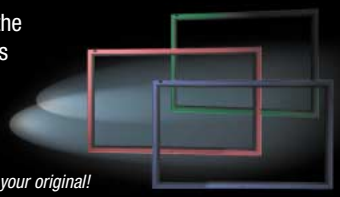
Pin number	Signal name
1	GND
2	GND
3	SW2
4	SW1

Opening	Short-circuitin
Power Off	Power On
Input A*	Input B*

**Input A and Input B will be determined by the "REMOTE SWITCH" setting.*

Removable Front Bezel for Customization

The entire front bezel (frame) of the GM-X50 is easily detachable, thus allowing it to be professionally resprayed in a custom color.



Sample bezels – make your original!

Self-diagnostic Indicator

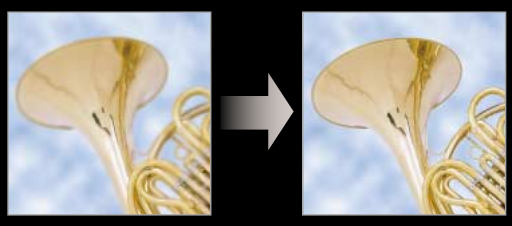
The self-diagnostic indicator will light up or flash in the event of a malfunction. There are three indicators inside the remote sensor for conditions such as dusty intakes on the rear, and dual indication (indicator and on-screen warning) to alert you to more serious conditions such as internal heat build-up caused by incorrect installation. The indicators are there to help provide a safe operating environment and prolong the life of the display.

Bright Picture of 400cd/m²

Brightness specifications on the GM-X50 are 400cd/m² as a set and 1000cd/m² for the basic panel, without the optical filter in place.

Digital Enhancer Sharpens Contours

The GM-X50 is equipped with JVC's original digital enhancer circuit that adds edges to the image by adjusting the sharpness control, thereby creating a sharp, detailed image without emphasizing noise or roughness.



Down to Every Detail.

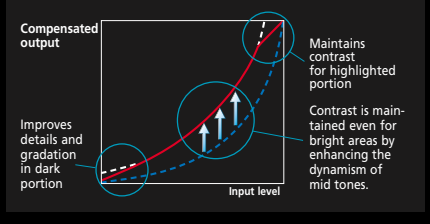
Layout-Free

The slim design of the GM-X50 and its wide viewing angle allow the user to position the panel however desired in any given space. Abundant optional accessories are available to help position the panel in desired ways including vertical orientation*.

**Optional cooling fan required for vertical setting.*

Original Gamma Control

JVC's original gamma control enables image reproduction with natural contrast at any luminance level. Unlike a CRT display, a PDP has linear emission characteristics and thus requires gamma correction. However, standard gamma correction tends to adversely affect tonal gradations in the darker portions of the picture. To avoid this, JVC's original Gamma Correction applies the optimum data for each signal level, from the darkest regions through to the brightest. This means that it is able to preserve tonal subtleties in the dark areas without increasing noise. Moreover, it can enhance the brightness (dynamism) of mid tones without affecting gradations in the highlights. Such compensation recreates natural contrast to add more depth and dimension to the image.



Integrated 2W x 2 Speakers

This plasma display panel is equipped with stereo speakers delivering a total of 4W (2W x 2) audio output. There are also external speaker output terminals to enable further upgraded audio performance with an optional speaker system.

Timer On/Off Helps Eliminate Phosphor Burn-in

The built-in timer automatically turns the panel on or off for seamless operation. What's more, turning the panel off when not in use helps eliminate phosphor burn-in.

W-XGA Panel with UXGA Compatibility

The GM-X50 features a W-XGA panel with a native resolution of 1366 x 768 pixels, which readily adapts to give UXGA compatibility, for stunning display of UXGA resolution images from a PC. In fact, the GM-X50 has been designed to give accurate display of all the display formats, as shown in the chart below.

VGA	W-VGA	SVGA	XGA	W-XGA	SXGA	UXGA	Others
PC98 (640 x 400)	W-VGA (852 x 480)	SVGA-56 (800 x 600)	XGA-60 (1024 x 768)	W-XGA-60 (1366 x 768)	SXGA-60 (1280 x 1024)	UXGA-60 (1600 x 1200)	Mac 13" (640 x 480)
VGA400-70 (640 x 400)		SVGA-60 (800 x 600)	XGA-70 (1024 x 768)		SXGA-75 (1280 x 1024)	UXGA-65 (1600 x 1200)	Mac 16" (832 x 624)
VGA-60 (640 x 480)		SVGA-72 (800 x 600)	XGA-75 (1024 x 768)			UXGA-70 (1600 x 1200)	Mac 19" (1024 x 768)
VGA-72 (640 x 480)		SVGA-75 (800 x 600)	XGA-85 (1024 x 768)				Mac 21" (1152 x 870)
VGA-75 (640 x 480)			XGA+ -75 (1152 x 864)				RGB15k-60Hz / RGB15k-50Hz

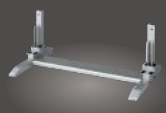
** Please refer to the back page for full details.*

More features

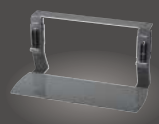
- ✓ 16.77 million colors (256 levels)
- ✓ IR remote output
- ✓ RCA terminal video input
- ✓ Separate on/off keys assigned to the remote
- ✓ Sampling Clock Adjustment for accurate A/D conversion

Optional Accessories

UNITS



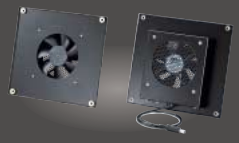
TS-CL01SG
Stand Unit
- Dimensions (W x H x D) 22-5/8" x 8-7/8" x 13" (574 x 226 x 330 mm)



TS-CL02SG
Stand Unit (Stylish Type)
- Dimensions (W x H x D) 24-5/8" X 12-1/4" x 11" (625 x 308.2 x 279 mm)

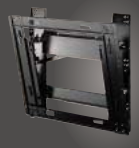
SPEAKERS

TS-C500SPG
Direct-Drive Stick Speaker System
- Rated input: 3 W
- Nominal impedance: 6 ohms
- Dimensions (W x H x D) 1-3/4" x 29-1/4" x 2-1/4" (42 x 740.5 x 54 mm)
- Weight: 1.98 lbs (0.9 kg)/speaker



TS-C01FAN
Cooling Fan Unit (Required for vertical setting)
- Dimensions (W x H x D) 6-7/8" x 1-3/8" x 6-3/8" (174 x 33 x 160 mm) without cable

BRACKETS



TS-C420P2W
Wall Mounting Bracket*
- Mounting angles: 0°, 5°, 10°, 15°
- Dimensions (W x H x D) 21-3/4" x 22" x 1-7/8" (550 x 557.3 x 47 mm)**

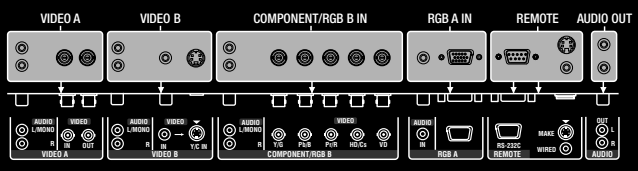
TS-C420P6W
Wall Mount Bracket*
- Mounting angle: 0°
- Dimensions (W x H x D) 22-1/2" x 22-3/4" x 1-7/8" (570 x 576 x 47 mm)**

TS-C420P8W
Wall Mount Bracket (Landscape Setting only)
- Mounting angles: 0°, 5°, 10°, 15°, 20°
- Dimensions (W x H x D) 23-7/8" x 20-7/8" x 2" (601.2 x 528 x 49 mm)**

TS-C420P3W
Ceiling Suspension Bracket
- Mounting angles: 0°, 10°, 20°
- Dimensions (W x H x D) 22-1/2" x 17-3/4" x 6-1/2" (570 x 450 x 165 mm)**

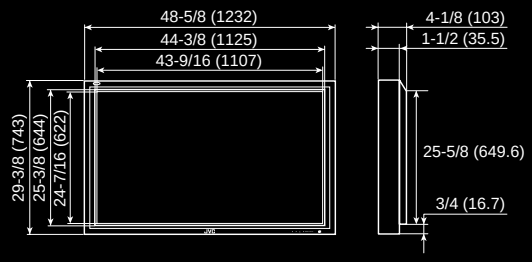
**For a portrait setting, please use this bracket **Mounting angle set at 0°*

Rear Terminals



Dimensions

Unit: inches (mm)



Specifications

■ DISPLAY PANEL			
Screen size (W x H)			43-9/16" x 24-7/16" (1,107 mm x 622 mm); 50" (1,269 mm) diagonal
Type			Widescreen 50-inch diagonal plasma display monitor
Aspect ratio			16:9 (4:3/16:9 selectable)
Display colors			16.77 million (RGB each of 256 levels)
Brightness			400cd/m² (set), 1,000cd/m² (panel)
Contrast ratio			2000:1
Number of pixels			Horizontal 1,366 x Vertical 768
Pixel pitch			Horizontal: 0.032" (0.81 mm); Vertical: 0.032" (0.81 mm)
Display modes	Regular (4:3)		4:3 image displayed in centre of screen
	Full/Panoramic (16:9)		Displays wide horizontal expansion of 4:3 image for full-screen display
	Zoom (16:9)		Overall expansion of 4:3 image for full-screen display
Color system			NTSC/PAL-M/PAL-N
Signal format capability			Refer to the table below
External I/O configuration and Input signals	Video A	Composite	IN: BNC x 1; OUT: BNC x 1 (loop through)
			1.0 V (p-p), 75 ohm, negative sync
	Video B	Composite	RCA pin x 1, 1 V (p-p), 75 ohm, negative sync
		Y/C	IN: S (mini DIN 4-pin) x 1 (prior to RCA)
			Y: 1.0V (p-p), 75 ohm, negative sync
			C: 0.286 V (p-p), 75 ohm (NTSC); 0.3 V (p-p), 75 ohm (PAL, SECAM)
	RGB A		IN: Mini D-Sub 15-pin x 1
			0.7 V (p-p), 75 ohms
		G on Sync	1.0 V (p-p)/Sync 0.3 V (p-p) negative
		VD	1.0 V (p-p) – 5.0 V (p-p)/470 ohm
		HD/CS	0.3 V (p-p) – 5.0 V (p-p)/470 ohm
	Component / RGB B		IN: Y/G, PB/B-Y/B, PR/R-Y/R, H (RGB IN only), V (RGB IN only); BNC x 5
		480i	1.0V (p-p)/Sync 0.286 V (p-p)
		576i	1.0V (p-p)/Sync 0.3 V (p-p)
		480p	1.0V (p-p)/Sync 0.3 V (p-p)
		576p	1.0V (p-p)/Sync 0.3 V (p-p)
		720p	1.0V (p-p)/3-state Sync ±0.3 V (p-p)
		1080i	1.0V (p-p)/3-state Sync ±0.3 V (p-p)
		VD	1.0V (p-p) – 5.0 V (p-p)/1k ohm or 75 ohm
		HD/CS	0.3V (p-p) – 5.0 V (p-p)/1k ohm or 75 ohm
	RS-232C		IN/OUT: D-sub 9-pin
	Remote terminals		MAKE: S (mini DIN 4-pin) x 1 WIRED: stereo mini jack x 1
Audio I/O terminals	IN	Video A	RCA pin x 2
		Video B	RCA pin x 2
		RGB A	Stereo mini jack x 1
		Component / RGB B	RCA pin x 2
	OUT	Audio	RCA pin x 2
		Speaker	Speaker terminal x 2 (L/R), 6 ohms to 8 ohms impedance
Audio power output	Internal		2W + 2W (8 ohms)
	External		3W + 3W (typical at 6 ohms impedance)
Weight			110 lbs (50.0 kg)
■ GENERAL			
Power requirement			120 V AC, 50/60Hz
Power consumption			4.0A (at AC 120V)
Operating environment conditions	Temperature range		0°C to +40°C (32°F to 104°F)
	Humidity range		20% to 70%, non condensation

Applicable Signal Formats

Type	Signal	Scan*	Standard	Frequency V (Hz)	Frequency H (kHz)	Dot Clock (MHz)	Effective pixels H (pixels/line)	Effective pixels V (lines/frame)
Composite & Y/C	NTSC, PAL-M, B/W-60Hz	I		59.94	15.734	14.32	—	480
	PAL-N, B/W-50Hz	I		50.00	15.625	17.73	—	576
Component	480i	I	ITU-R BT601-4 (CCIR Rec. 601)	59.94	15.734	13.50	—	480
	576i	I	ITU-R BT601-4 (CCIR Rec. 601)	50.00	15.625	13.50	—	576
	480p	P	ITU-R BT. 1358	59.94	31.468	27.00	720	483
	576p	P	ITU-R BT. 1358	50.00	31.250	27.00	720	576
	720/50p	P	SMPTE 296M	50.00	37.500	74.25	1280	720
	720/60p	P	SMPTE 296M	60.00	45.000	74.25	1280	720
	1080/50i	I	SMPTE 274M	50.00	28.125	74.25	1920	1080
	1080/60i	I	SMPTE 274M	60.00	33.750	74.25	1920	1080
	1035	I	BTA S-001A	60.00	33.750	74.25	1920	1035
RGB 15k	RGB15k-60Hz	I		59.94	15.734	14.32	—	480
	RGB15k-50Hz	I		50.00	15.625	17.73	—	576
PC/VGA 400	PC98	P	NEC	56.42	24.820	21.05	640	400
	VGA400-70	P	IBM	70.09	31.470	25.18	640	400
PC/VGA 480	VGA-60	P	Industry	59.94	31.470	25.17	640	480
	VGA-72	P	VESA	72.81	37.860	31.50	640	480
	VGA-75	P	VESA	75.00	37.500	31.50	640	480
	W-VGA-60	P	Industry	59.97	31.720	34.01	852	480
	Mac 13"	P	Apple	66.67	35.000	30.24	640	480
PC/SVGA	SVGA-56	P	VESA guidelines	56.25	35.160	36.00	800	600
	SVGA-60	P	VESA guidelines	60.32	37.880	40.00	800	600
	SVGA-72	P	VESA guidelines	72.19	48.080	50.00	800	600
	SVGA-75	P	VESA guidelines	75.00	46.880	49.50	800	600
	MAC 16"	P	Apple	74.55	49.730	57.28	832	624
PC/XGA	XGA-60	P	VESA guidelines	60.00	48.360	65.00	1024	768
	W-XGA-60	P	Industry	60.00	48.363	86.71	1366	768
	XGA-70	P	VESA	70.07	56.480	75.00	1024	768
	XGA-75	P	VESA	75.03	60.020	78.75	1024	768
	XGA-85	P	VESA	85.00	68.680	94.50	1024	768
	Mac 19"	P	Apple	74.93	60.240	80.00	1024	768
	XGA+ -75	P	VESA	75.00	67.500	108.00	1152	864
	MAC 21"	P	Apple	75.06	68.680	100.00	1152	870
PC/SXGA	SXGA-60	P	VESA	60.02	63.980	108.00	1280	1024
	SXGA-75	P	VESA	75.03	79.980	135.00	1280	1024
PC/UXGA	UXGA-60	P	VESA	60.00	75.000	162.00	1600	1200
	UXGA-65	P	VESA	65.00	81.250	175.50	1600	1200
	UXGA-70	P	VESA	70.00	87.500	189.00	1600	1200

** Scanning system:- I: Interlace; P: Progressive*

Note: • PDP is an ultra-modern electronic device which is fabricated by using leading-edge technology. The PDP's effective picture elements are therefore as high as 99.99 percent or even higher. This means that 0.01 percent or fewer picture elements may not be effective in operation, leaving such elements in a permanently "ON" state. • Screen burn-in: Like a CRT, PDP uses phosphor; therefore burn-in could result from long-term use such as displaying continuously the same still image or portion of image, such as a logo, name or title. • If the PDP is installed vertically, an optional Cooling Fan Unit is required as the regular airflow inside the unit is distributed and thus the unit does not cool down.

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Printed in Japan
ICN-0299