

JVC[®]

The Perfect Experience / —

42-INCH PLASMA DISPLAY MONITOR

GM-V42UG

GM-V42UB

High-Contrast, Flat Plasma Monitor
Delivering Extremely Bright Picture



Plasma Solutions for Professional Applications

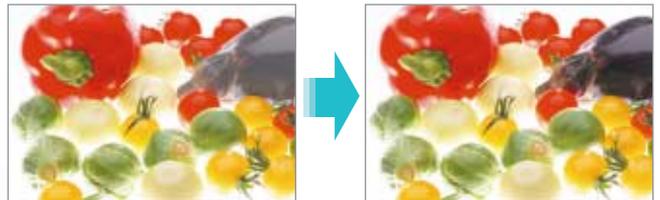
Show the Big Picture in Every

Technologies for Extremely Bright and High Contrast Images

JVC's GM-V42UG plasma monitor incorporates a number of technologies to deliver exceptionally bright images with superb contrast and color in various environments. The outstanding video signal processing, brightness and contrast ratio of the GM-V42UG bring perfect images to well lit areas like tradeshows, conference halls and schools, as well as totally dark auditoriums.

3000:1 Contrast Ratio

enables crisp, clearly visible images to be displayed especially in dark rooms. This far surpasses regular PDPs which commonly have a contrast ratio of around 1500:1. Contrast ratio is the measurement of the difference in light intensity between the brightest white and darkest black. Naturally, the higher the ratio, the better the contrast and visibility of the image.

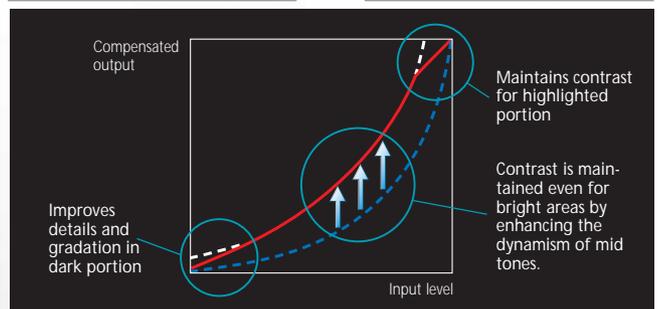
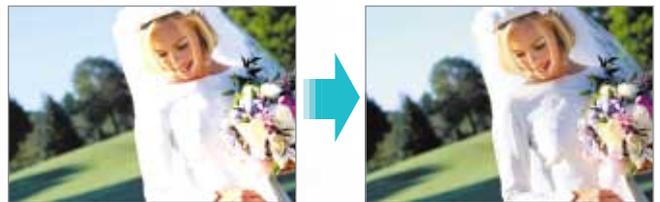


Bright Picture of 400cd/m²

as a set and 1000cd/m² for the panel alone. Additionally, the **Frame Rate Converter** helps improve brightness when displaying PC signals with a frequency of over 60Hz.

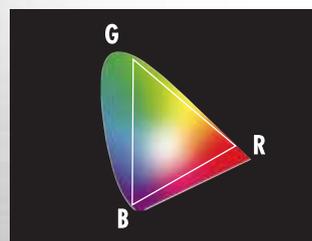
Original Gamma Control

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.

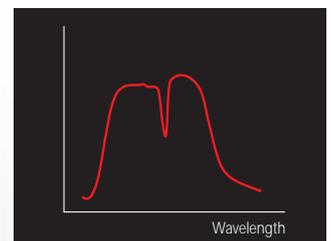


■ A combination of newly developed **Phosphor** and **Front Filter** that works to reduce emission of unnecessary light generated by plasma discharge provides natural and stunning color reproduction.

Front Filter spectrum



Color coordinate of the new Phosphor



Detail and Subtle Nuance.

Versatile Usage in a Variety of Situations

The GM-V42UG has been designed to deliver superior results regardless of where and how it is used.

S-VGA/XGA Compatibility

The GM-V42UG features an 852 x 480-pixel native resolution panel that enables PC display with S-VGA and XGA compatibility. The panel is designed to accurately display a wide range of PC signal formats, as shown in the chart below.

VGA	W-VGA	SVGA	XGA	Others
VGA400-70 (640 x 400)	W-VGA60 (852 x 480)	SVGA56 (800 x 600)	XGA60 (1024 x 768)	Mac 13" (640 x 480)
VGA60 (640 x 480)		SVGA60 (800 x 600)	XGA70 (1024 x 768)	PC98 (640 x 400)
VGA72 (640 x 480)		SVGA72 (800 x 600)	XGA75 (1024 x 768)	RGB15k/60Hz
VGA75 (640 x 480)		SVGA75 (800 x 600)	XGA85 (1024 x 768)	RGB15k/50Hz
			XGA75 (1152 x 864)	

** Refer to the rear cover for detailed list*

Fanless Cooling for Quiet Operation, Energy Savings, and Reliability

Due to reduced power consumption, a cooling fan is not required. This fanless design reduces noise and ensures quiet operation, nearly eliminates dust suction by the panel for longer panel life, plus it helps save electricity.

Timer On/Off Helps Eliminate Phosphor Burn-in

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

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.

Layout-Free

The slim design of the plasma display panel and its wide viewing angle of 160 degrees allow the user to position the panel however desired in any given space. Abundant optional accessories are available to help position the panel in a variety of ways; self-standing, wall-mounted, hung from the ceiling, or even vertically-oriented (Cooling fan required). See back cover for available options.



Simulated picture of still image

Removable Front Bezel for Customization

The bezel is detachable for those considering a replacement or customized panel installation.

1080i Viewing from JVC Hi-Def Camcorder

The GM-V42UG accepts input signals from JVC's JY-HD10 and GR-HD1 high-definition digital video cameras.

EMC Class B Compatible Model Available

For those considering residential use, an EMC class B compliant model GM-V42UB is also available.

More Features

- 16.77 million colours (256 levels)
- IR remote output
- RS-232C
- Separate on/off keys assigned to the remote
- Sampling Clock Adjustment for accurate A/D conversion



42-INCH PLASMA DISPLAY MONITOR

GM-V42UG (Class A)

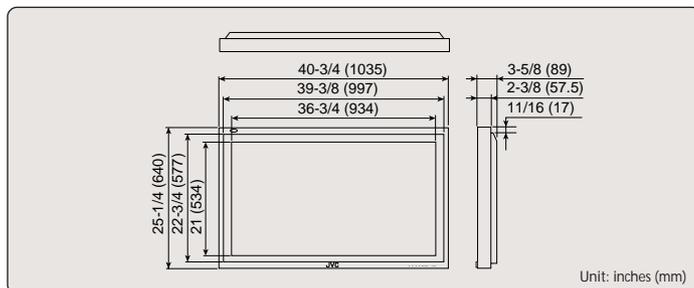
GM-V42UB Body Color: Silver (Class B)

Optional Accessories

SPEAKER SYSTEM		
 <p>TS-C4200SPG Slim Wall-Mounted Speaker System</p> <ul style="list-style-type: none"> Rated input: 8W • Nominal impedance: 6 ohms Dimensions (W x H x D) 3-15/16" x 23-7/8" x 3-9/16" (100 x 610 x 89 mm) • Weight: 4.7 lbs (2.1kg)/speaker 	 <p>TS-C421SPG (Silver) TS-C421SPGU (Black) Direct-Drive Stick Speaker System</p> <p><i>*Photo shows the TS-C421SPG silver model.</i></p> <ul style="list-style-type: none"> Rated input: 5W • Nominal impedance: 6 ohms Dimensions (W x H x D) 1-3/4" x 25-3/16" x 1-3/4" (43 x 639 x 43 mm) • Weight: 1.6 lbs (0.7kg)/speaker 	
STAND UNIT		
 <p>TS-C420P1W Stand Unit (Vertical Position)</p> <ul style="list-style-type: none"> Dimensions (W x H x D) 19-11/16" x 23-15/16" x 27-9/16" (500 x 607.2 x 700 mm) 	 <p>TS-C420P1W Stand Unit (Horizontal Position)</p> <ul style="list-style-type: none"> Dimensions (W x H x D) 27-9/16" x 15-3/16" x 17-13/16" (700 x 384.6 x 452 mm) 	 <p>TS-C420P5W Stand Unit</p> <ul style="list-style-type: none"> Dimensions (W x H x D) 22-5/8" x 8-15/16" x 13" (574 x 226 x 330 mm)
WALL MOUNTING UNIT		
 <p>TS-C420P2W Wall Mounting Unit (Portrait Setting)</p> <ul style="list-style-type: none"> Mounting angles: 0°, 5°, 10°, 15° Dimensions (W x H x D) 19-1/2" x 20-7/8" x 1-7/8" (494 x 529 x 47 mm)* 	 <p>TS-C420P6W Wall Mounting Unit</p> <ul style="list-style-type: none"> Mounting angle: 0° Dimensions (W x H x D) 22-1/2" x 22-11/16" x 1-7/8" (570 x 576 x 47 mm) 	 <p>TS-C420P8W Wall Mounting Unit (Landscape Setting)</p> <ul style="list-style-type: none"> Mounting angles: 0°, 5°, 10°, 15° Dimensions (W x H x D) 14-1/16" x 20-1/2" x 2" (610 x 520 x 50 mm)*
CEILING SUSPENSION UNIT		COOLING FAN UNIT
 <p>TS-C420P3W Ceiling Suspension Unit</p> <ul style="list-style-type: none"> 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)* 		 <p>TS-C01FAN Cooling Fan Unit (Required for portrait setting)</p> <ul style="list-style-type: none"> Dimensions (W x H x D) 6-7/8" x 1-5/16" x 6-5/16" (174 x 33 x 160 mm) without cable

* Mounting angle set at 0°

Dimensions



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Specifications

■ DISPLAY PANEL																																																																																																					
Screen size (W x H)	36.73" x 20.98" (42.32" diagonal); 933 mm x 533 mm (1,075mm diagonal)																																																																																																				
Type	Widescreen 42-inch diagonal																																																																																																				
Aspect ratio	16:9 (4.3/16:9 selectable)																																																																																																				
Viewing angle	160°																																																																																																				
Display colors	16.77 million (RGB each of 256 levels)																																																																																																				
Brightness	400cd/m ² (set), 1,000cd/m ² (panel)																																																																																																				
Contrast ratio	3000:1																																																																																																				
Number of pixels	Horizontal 852 x Vertical 480																																																																																																				
Pixel pitch	43.11" (horizontal) x 43.70" (vertical) 1.095 mm (horizontal) x 1.110 mm (vertical)																																																																																																				
Display modes	Regular (4:3) Full/Panoramic (16:9) Zoom (16:9)																																																																																																				
Compatible systems: Video A, Video B input	NTSC/PAL M/PAL N																																																																																																				
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External I/O configuration and input signals	<table border="1"> <thead> <tr> <th>Video A</th> <th>Composite</th> <th>IN: BNC x 1; OUT: BNC x 1 (loop through)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>T 1 V (p-p), 75 ohms negative sync</td> </tr> <tr> <th>Video B</th> <th>Composite</th> <th>RCA pin x 1, 1 V (p-p), 75 ohms, negative sync</th> </tr> <tr> <td></td> <td>Y/C</td> <th>IN: S (mini DIN 4-pin) x 1 (prior to RCA)</th> </tr> <tr> <td></td> <td></td> <th>Y: 1.0 V (p-p), 75 ohms, negative sync.</th> </tr> <tr> <td></td> <td></td> <th>C: 0.286 V (p-p), 75 ohms (NTSC); 0.3 V (p-p), 75 ohms (PAL M, N)</th> </tr> <tr> <th>RGB A</th> <td></td> <th>IN: 15-pin D-Sub mini x 1</th> </tr> <tr> <td></td> <td></td> <th>0.7 V (p-p), 75 ohms</th> </tr> <tr> <td></td> <td>G on Sync</td> <th>1.0 V (p-p)/Sync 0.3 V (p-p) negative</th> </tr> <tr> <td></td> <td>VD</td> <th>1.0 V (p-p) - 5.0 V (p-p)/470 ohm</th> </tr> <tr> <td></td> <td>HD/Cs</td> <th>0.3 V (p-p) - 5.0 V (p-p)/470 ohm</th> </tr> <tr> <th>Component/RGB B</th> <td></td> <th>IN: Y/G, P_r/B-Y/B, P_r/R-Y/R, H (RGB IN only), V (RGB IN only); BNC x 5</th> </tr> <tr> <td></td> <td>480i</td> <th>1.0 V (p-p)/Sync 0.286 V (p-p)</th> </tr> <tr> <td></td> <td>576i</td> <th>1.0 V (p-p)/Sync 0.3 V (p-p)</th> </tr> <tr> <td></td> <td>480p</td> <th>1.0 V (p-p)/Sync 0.286 V (p-p)</th> </tr> <tr> <td></td> <td>576p</td> <th>1.0 V (p-p)/Sync 0.286 V (p-p)</th> </tr> <tr> <td></td> <td>720p</td> <th>1.0 V (p-p)/3-state Sync ±0.3 V (p-p)</th> </tr> <tr> <td></td> <td>1080i</td> <th>1.0 V (p-p)/3-state Sync ±0.3 V (p-p)</th> </tr> <tr> <td></td> <td>VD</td> <th>1.0 V (p-p) - 5.0 V (p-p)/1k ohm</th> </tr> <tr> <td></td> <td>HD/Cs</td> <th>0.3 V (p-p) - 5.0 V (p-p)/1k ohm</th> </tr> <tr> <td></td> <td>RS-232C</td> <th>IN/OUT: 9-pin D-sub</th> </tr> <tr> <th>Audio I/O terminals</th> <td>IN</td> <td> <table border="1"> <thead> <tr> <th>Video A</th> <th>RCA pin x 2</th> </tr> </thead> <tbody> <tr> <th>Video B</th> <th>RCA pin x 2</th> </tr> <tr> <th>RGB A</th> <th>Stereo mini jack x 1</th> </tr> <tr> <th>Component/RGB B</th> <th>RCA pin x 2</th> </tr> </tbody> </table> </td> </tr> <tr> <td></td> <td>OUT</td> <td> <table border="1"> <thead> <tr> <th>Audio</th> <th>RCA pin x 2</th> </tr> </thead> <tbody> <tr> <th>Speaker</th> <th>Speaker terminal x 2 (L/R), 6 ohms to 16 ohms impedance</th> </tr> </tbody> </table> </td> </tr> <tr> <th>Audio power output</th> <td>Internal</td> <td>2W + 2W</td> </tr> <tr> <td></td> <td>External</td> <td>3W + 3W (typical at 6 ohms impedance)</td> </tr> <tr> <th>Weight</th> <td></td> <td>77.3 lbs (35.1 kg)</td> </tr> <tr> <th colspan="2">■ GENERAL</th> </tr> <tr> <td>Power requirement</td> <td>120 V AC, 50/60Hz</td> </tr> <tr> <td>Power consumption</td> <td>290 W</td> </tr> <tr> <td>Operating environment conditions</td> <td>Temperature range 32°F to 104°F (0°C to +40°C)</td> </tr> <tr> <td></td> <td>Humidity range 20% to 80%, non condensation</td> </tr> </tbody> </table>	Video A	Composite	IN: BNC x 1; OUT: BNC x 1 (loop through)			T 1 V (p-p), 75 ohms negative sync	Video B	Composite	RCA pin x 1, 1 V (p-p), 75 ohms, negative sync		Y/C	IN: S (mini DIN 4-pin) x 1 (prior to RCA)			Y: 1.0 V (p-p), 75 ohms, negative sync.			C: 0.286 V (p-p), 75 ohms (NTSC); 0.3 V (p-p), 75 ohms (PAL M, N)	RGB A		IN: 15-pin D-Sub mini 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, P _r /B-Y/B, P _r /R-Y/R, H (RGB IN only), V (RGB IN only); BNC x 5		480i	1.0 V (p-p)/Sync 0.286 V (p-p)		576i	1.0 V (p-p)/Sync 0.3 V (p-p)		480p	1.0 V (p-p)/Sync 0.286 V (p-p)		576p	1.0 V (p-p)/Sync 0.286 V (p-p)		720p	1.0 V (p-p)/3-state Sync ±0.3 V (p-p)		1080i	1.0 V (p-p)/3-state Sync ±0.3 V (p-p)		VD	1.0 V (p-p) - 5.0 V (p-p)/1k ohm		HD/Cs	0.3 V (p-p) - 5.0 V (p-p)/1k ohm		RS-232C	IN/OUT: 9-pin D-sub	Audio I/O terminals	IN	<table border="1"> <thead> <tr> <th>Video A</th> <th>RCA pin x 2</th> </tr> </thead> <tbody> <tr> <th>Video B</th> <th>RCA pin x 2</th> </tr> <tr> <th>RGB A</th> <th>Stereo mini jack x 1</th> </tr> <tr> <th>Component/RGB B</th> <th>RCA pin x 2</th> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th>Audio</th> <th>RCA pin x 2</th> </tr> </thead> <tbody> <tr> <th>Speaker</th> <th>Speaker terminal x 2 (L/R), 6 ohms to 16 ohms impedance</th> </tr> </tbody> </table>	Audio	RCA pin x 2	Speaker	Speaker terminal x 2 (L/R), 6 ohms to 16 ohms impedance	Audio power output	Internal	2W + 2W		External	3W + 3W (typical at 6 ohms impedance)	Weight		77.3 lbs (35.1 kg)	■ GENERAL		Power requirement	120 V AC, 50/60Hz	Power consumption	290 W	Operating environment conditions	Temperature range 32°F to 104°F (0°C to +40°C)		Humidity range 20% to 80%, non condensation
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Applicable Signal Formats

Type	Signal	Scan*	Standard	Frequency		Effective pixels			
				H (Hz)	V (kHz)	Dot clock (MHz)	H (pixels/line)	V (lines/frame)	
Composite & Y/C	NTSC, PAL-M	I		59.94	15.734				
	PAL-N	I		50.00	15.625				
Component	480i	I		59.94	15.734				
	576i	I		50.00	15.625				
	480p	P	ITU-R P-B-1358	59.94	31.468	27.00	720	480	
	576p	P	ITU-R P-B-1358	50.00	31.250	27.00	720	576	
	720p	P	SMPTE 296M	60.00	45.000	74.25	1280	720	
	1080i/50i	I	SMPTE 274M	50.00	28.125	74.25	1920	1080	
	1080i/60i	I	SMPTE 274M	60.00	33.750	74.25	1920	1080	
	1035i	I	BTA S-001A	60.00	33.750	74.25	1920	1035	
	RGB 15k	RGB15k/60Hz	I		59.94	15.734			
		RGB15k/50Hz	I		50.00	15.625			
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	
	VGA75	P	VESA	75.00	37.500	31.50	640	480	
PC/VGA 480	VGA60	P	Industry	59.94	31.470	25.17	640	480	
	VGA72	P	VESA	72.81	37.860	31.50	640	480	
	VGA75	P	VESA	75.00	37.500	31.50	640	480	
PC/SVGA	W-VGA60	P	Industry	59.97	31.720	34.01	852	480	
	Mac 13"	P	Apple	66.67	35.000	30.24	640	480	
	SVGA56	P	VESA guidelines	56.25	35.160	36.00	800	600	
PC/XGA	SVGA60	P	VESA guidelines	60.32	37.880	40.00	800	600	
	SVGA72	P	VESA guidelines	72.19	48.080	50.00	800	600	
	SVGA75	P	VESA guidelines	75.00	46.880	49.50	800	600	
	XGA60	P	VESA guidelines	60.00	48.360	65.00	1024	768	
PC/XGA	XGA70	P	VESA	70.07	56.480	75.00	1024	768	
	XGA75	P	VESA	75.03	60.02	78.75	1024	768	
	XGA85	P	VESA	85.00	68.68	94.50	1024	768	
	XGA75	P	VESA	75.00	67.50	108.00	1152	864	

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

Note: • PDP is an ultra-modern electronic device fabricated using leading-edge technology. Therefore, its effective picture elements are 99.99 percent or more, meaning 0.01 percent or less defective elements or "always ON" portion could exist. • Screen burn-in: Like a CRT, PDP uses phosphor; therefore burn-in could result from long-term use such as displaying the same still picture. • If the monitor 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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