JVC®

The Perfect Experience

42-INCH PLASMA DISPLAY MONITOR

GD-V422U

Billion Color XGA Plasma Display
Automated Operation for Ease-of-Use

Excellent Picture Quality and Usability

Reaching New Heights of Performance
In Color, Contrast (4000:1) and Resolution

Make a Big Impression with XGA Plasma Performance

JVC's GD-V422U plasma display features an XGA panel which has the capability to reproduce 1.07 billion colors. This gives amazingly realistic images, and with a variety of P in P (Picture-in-picture) functions, plus digital zoom and multi-display facilities, you can be sure of making a lasting impression on any audience.

XGA panel

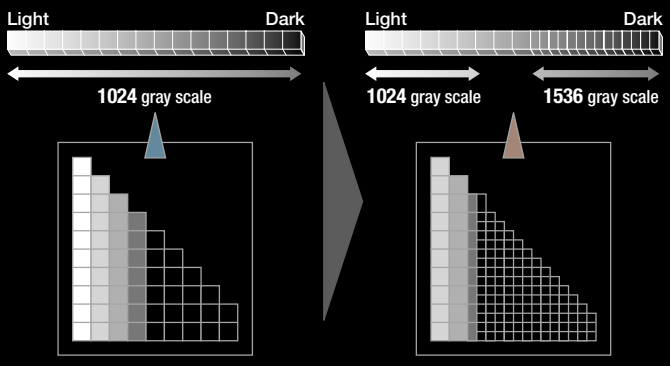
The native resolution of the GD-V422U is XGA (1024 horizontal by 768 vertical pixels). The panel is made from highly durable glass material. Besides the high quality of the panel itself, the GD-V422U employs numerous, innovative image enhancement technologies which all contribute towards very realistic image reproduction.

Advanced Digital Image Processing

The image processing circuitry of the GD-V422U is entirely digital and is therefore able to deliver a quality of image that is the equal of the display qualities of the panel itself. Additionally, the process of enhancing the luminance level gives sharpness, clarity and true color definition. The result is absolute fidelity of image reproduction.

More Than One Billion Colors

The GD-V422U has a palette of 1.07 billion colors which is one of the highest available. This means that the panel can display very rich colors and also images that contain subtle color differences. Moreover, for the darker areas of an image the panel has a grayscale of 1356 gradations which allow the details to be shown from areas of low luminance. By offering such marked and significant improvements in these aspects of image reproduction, the GD-V422U provides a picture quality previously unseen on plasma panels. The splendid array of rich and subtle colors, the fine detail visible in dark areas and the overall reduction in noise make for superb and realistic picture quality.



▲ *Conventional gamma*

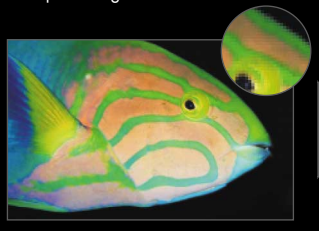
▲ *GD-V422U gamma*

High contrast ratio – 4000:1 for dark surroundings

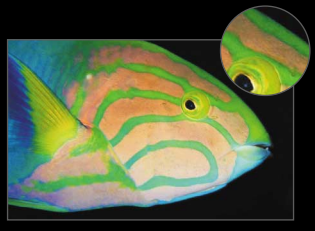
The GD-V422U can display images with high contrast, 4000:1 for areas that are dark, and 160:1 for areas that are bright. This enables a more realistic picture with three-dimensionality and sharpness.

2D Enhancer LSI

Noise generation caused by edge and contour correction is now a problem of the past. The GD-V422U comes equipped with a two-dimensional LSI enhancement circuitry that seriously reduces edge noise and so gives crisper, sharper images.

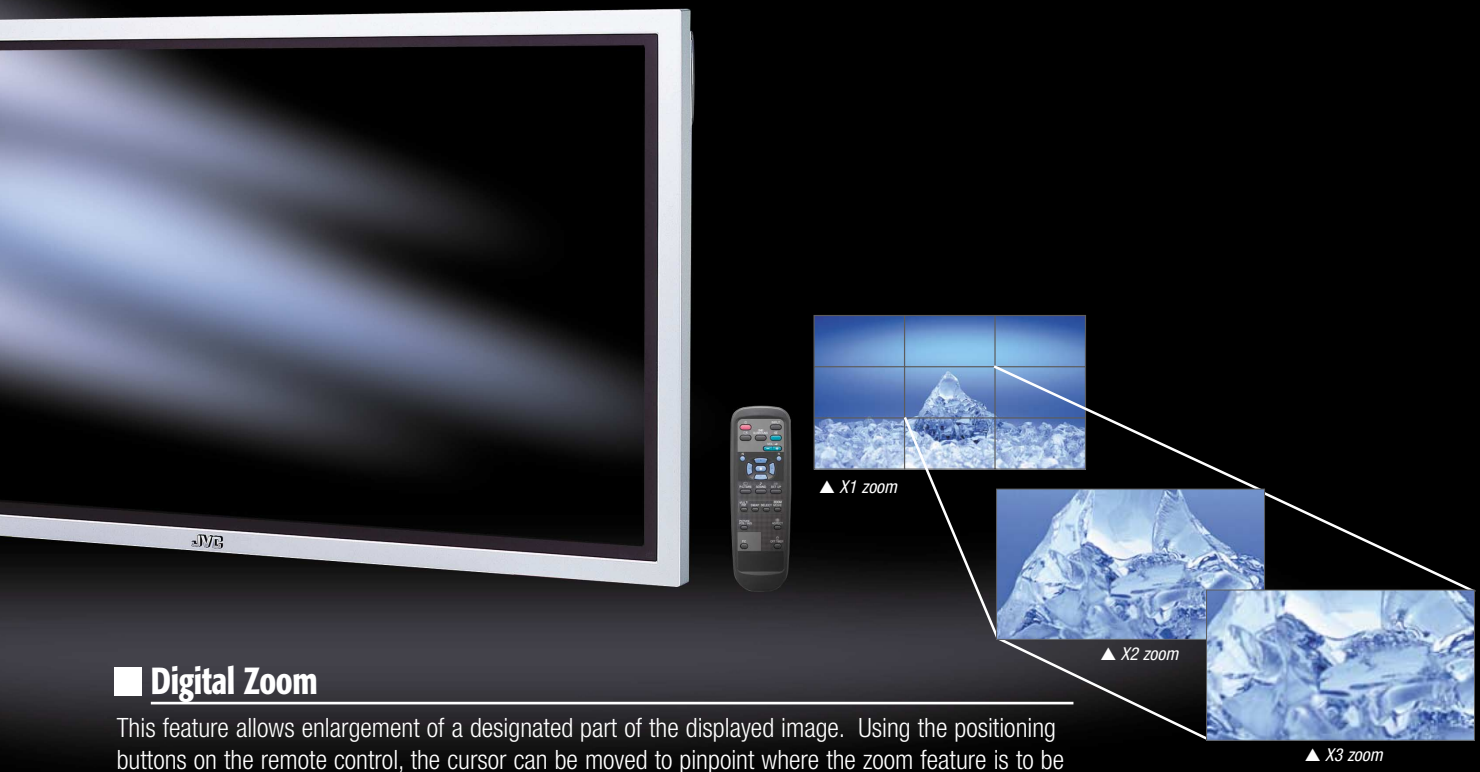


▲ *Conventional*



▲ *2D enhancer*

Images are simulated to show the difference.



Digital Zoom

This feature allows enlargement of a designated part of the displayed image. Using the positioning buttons on the remote control, the cursor can be moved to pinpoint where the zoom feature is to be applied. Magnification is available in 3 steps, from 1x to 3x, at the press of a button.

Multi-Display Capability

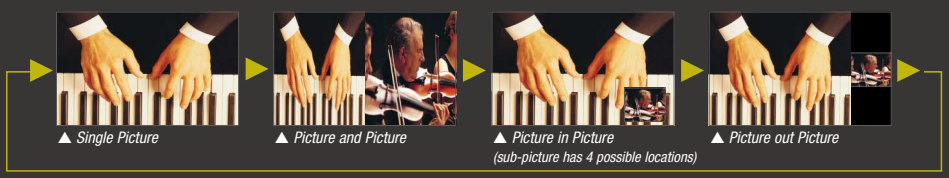
This feature allows a cluster of 4 or 9 panels to display one single picture. Such 2x2 and 3x3 panel displays are particularly eye-catching in exhibitions or tradeshows.

Connection and Expansion

The GD-V422U can connect up with numerous external sources, including AV terminals as well as COMPONENT/RGB IN with Audio L/R, VD, HD, PR/CR/R, PB/CB/B, and Y/G connectors. Additionally, there are PC IN and Serial terminals for connecting with computers. With such an array of terminals, this plasma panel can be used for various visual sources including DVD, DTV-STB, VCR, camcorder or computer.

Multi Picture-in-Picture

The GD-V422U has, besides single picture display, three different ways of displaying a second input (sub-picture): Picture-and-Picture, Picture-in-Picture, and Picture-out-Picture.



Aspect Controls

There are five aspect controls that can be cycled through and selected.

NORMAL will display a 4:3 picture at its standard 4:3 size.

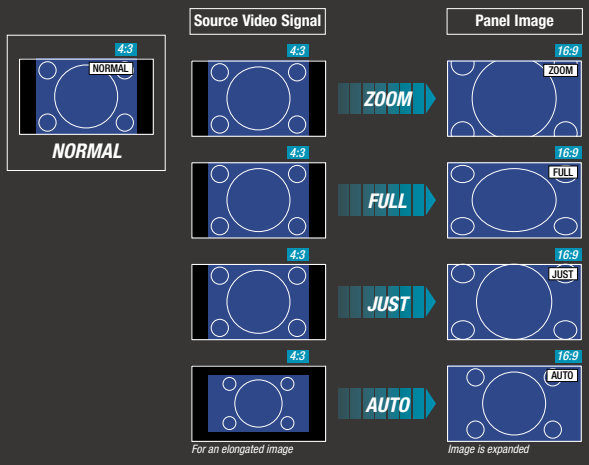
ZOOM mode magnifies the central section of the picture.

FULL 16:9 will display the picture at its maximum size but with slight elongation.

JUST mode will display a 4:3 picture at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.

AUTO The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size.

Note: AUTO mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program materials. Certain 4:3 program materials, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to NORMAL.



Specifications

DISPLAY PANEL			
Screen size		W x H	36-1/4 x 20-3/8" (920 mm x 518 mm)
		Diagonal	41.6 inches (1,056 mm)
No of pixels			786,432 (1024 W x 768 H; 3,072 x 768 dots)
Type			Widescreen 42-inch diagonal
Aspect ratio			16:9 (4:3/16:9 switchable)
Display colors			1.07 billion
Contrast ratio			4000:1 in dark areas, 160:1 in bright areas
Display modes		Normal	4:3 image displayed in center of screen
		Auto	Image enlarges automatically (depending on the picture source) for viewing the picture at its maximum size.
		Full	16:9 image at its maximum size but with slight elongation.
		Just	4:3 image at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
		Zoom	4:3 image magnified in center of screen
Applicable signal format			Refer to the table below
External I/O configuration/signals	OUT	Video	BNC: 1 V (p-p), 75 ohms
Standard terminal board	IN	Video	BNC: 1V (p-p), 75 ohms or high impedance (auto switch) S2 video (Mini D In 4-pin), audio L/R (RCA pin jack x 2) Y: 1 V (p-p), 75 ohms C: 0.286 V (p-p), 75 ohms ; 0.5V (RMS) high impedance
		Component video RGB	Y/G (BNC): 1V (p-p), 75 ohms including sync PB/PR, CB/CR (BNC): ±0.35 V (p-p), 75 ohms R/B (BNC): 0.7V (p-p), 75 ohms HD (BNC): 1.0 – 5.0 V (p-p), high impedance VD (BNC): 1.0 – 5.0 V (p-p), high impedance Audio L/R (RCA pin jack x 2): 0.5 V (RMS), high impedance
Fixed	IN	PC	XGA: Multiscan format *DD C1/2B compatible Compatible frequency: (H) 15 kHz – 110 kHz, (V) 48 Hz – 120 Hz Y/G: 1V (p-p), 75 ohms including sync PB/PR, CB/CR: ±0.35 V (p-p), 75 ohms R/B: 0.7V (p-p), 75 ohms HD, VC (mini D-sub 15-pin): 1.0 – 5.0 V (p-p), high impedance Audio L/R (M3 jack): 0.5 V (RMS), high impedance
		Serial	External control terminal (D-sub, 9-pin), RS-232C compliant
		External speaker	Left/Right, 6 ohms
Audio power output		External	8W + 8W (6 ohms, 10% THD)
Weight			66.1 lbs (30.0 kg)
GENERAL			
Power requirement			120 V AC, 50Hz (±10%)
Power consumption			335 W (0.9 W stand by with save ON)
Operating environment conditions		Temperature range	32° F – 104° F (0° C – 40° C)
		Humidity range	20% – 80%

Applicable Signal Formats

Signal	Frequency		Component	RGB	PC	During Multi Screen/ Digital Zoom
	H (kHz)	V (Hz)				
625 (575) /50i	15.63	50.00	•	•	•	•
625 (575) /50p	31.25	50.00	•	•	•	•
1,250 (1,080) /50i	31.25	50.00	•	•	•	•
640 x 400 @70	31.47	70.00		•	•	•
640 x 480 @60	31.47	59.94		•	•	•
Macintosh 13" (640x480)	35.00	66.67		•	•	•
640 x 480 @75	7.50	75.00		•	•	•
800 x 600 @60	37.88	60.32		•	•	•
800 x 600 @75	46.88	75.00		•	•	•
800 x 600 @85	53.67	85.06		•	•	•
Macintosh 16" (832x624)	49.73	74.55		•	•	•
1,024 x 768 @60	48.36	60.00		•	•	•
1,024 x 768 @70	56.48	70.07		•	•	•
1,024 x 768 @75	60.02	75.03		•	•	•
1,024 x 768 @85	68.68	85.00		•	•	•
Macintosh 21" (1,152x870)	68.68	75.06		•	•	
1,280 x 1,024 @60	63.98	60.02		•	•	
1,280 x 1,024 @75	79.98	75.03		•	•	
1,280 x 1,024 @85	91.15	85.02		•	•	
1,600 x 1,200 @60	75.00	60.00		•	•	

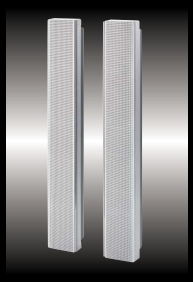
Optional Accessories

Stand Unit
TS-C50P5G
Dimensions
(W x H x D):
19-11/16" x 23-15/16"
x 27-9/16"
(500 x 607.2 x 700 mm)

Wall Mount Unit
TS-C50P2G
(Adjustable angle)

Wall Mount Unit
TS-C50P6G
(Fixed angle)
* TS-C50P2G shown

Ceiling Mount Unit
TS-C50P3G



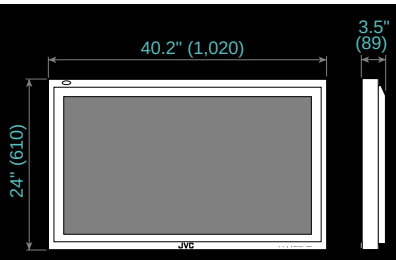
Side Mount Slim Speakers
TS-C422SPG

Accessory Provided

Remote Control Unit

Dimensions

Unit: inches (mm)

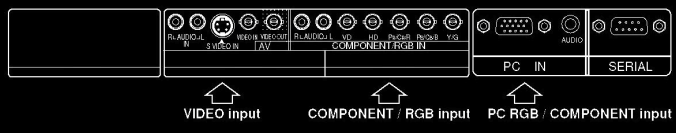


Applicable Video Input

During Multi-screen and Digital Zoom

Signal	Frequency	
	H (kHz)	V (kHz)
NTSC	15.73	59.94
PAL	15.63	50.00
PAL60	15.73	59.94
SECAM	15.63	50.00
Modified NTSC	15.73	59.94

Rear Terminals



Note: • PDP is an ultra-modern electronic device fabricated using leading-edge technology. Therefore, its effective picture elements are 99.9 percent or more, meaning 0.01 percent or less effective 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.

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