JVC®

The Perfect Experience

24” Multi-Format LCD Monitor

DT-V24G1Z

- 3G and Dual Link equipped
  SMPTE 424M/425M/372M
- JVC 10-bit video processing
- High operating viewing angle
- Waveform/Vector scope
- LTC & VITC support
- Gamma selection
- Various marker function
- Audio level meter up to 12ch
- Digital Closed Captioning

Vector scope and waveform cannot be displayed at the same time.

HIGHLIGHTS

■ 3G/Dual Link Equipped

1080p uncompressed digital video data transmitted at a maximum rate of 60 frames per second at 3 GB/second can be input with one HD SDI Input. Dual Link is available through two HD SDI inputs.

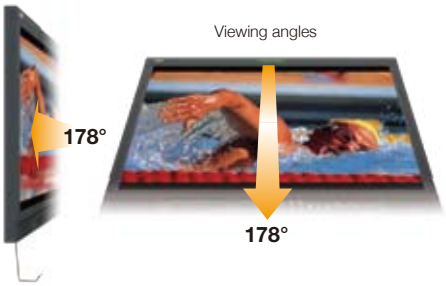
■ 3G-SDI Input Format

Following signal information can be displayed when a 3G-SDI signal comes in.

3G A-1	Level A mapping structure 1
3G A-2	Level A mapping structure 2
3G A-3	Level A mapping structure 3
3G A-4	Level A mapping structure 4
3G B-DS1	Level B data stream 1
3G B-DS2	Level B data stream 2
3G B-DUAL	Level B DUAL LINK

■ IPS (In-Plane-Switching) LCD Panel

IPS panels with wide viewing angles and low chromatic variation ensure minimal colour change from different viewing positions.



■ Gamma Preset Mode

JVC offers various pre-set gamma modes (2.2, 2.35, 2.45, 2.6) to meet your application needs.

■ Vector Scope*

High-quality vector scope allows simple checking of hue and saturation of digital video signals. Hue and saturation of colour signal are detected and displayed as a vector with resolution of 254 x 254. Compatible with video, component, SDI (SD/HD), DVI (except PC signals) input signals, and offers a double-size display** option and selection of display position or translucence functions.

Vector Scope

■ Waveform*

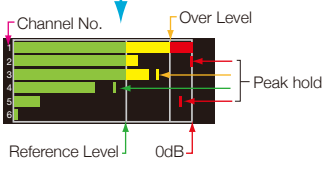
Detects video, component (except RGB), SDI, DVI (except PC) brightness signals and displays them with resolution of 360 x 254 for SD signals or resolution of 480 x 254 for HD signals. Besides, it is also possible to perform checks at the color signal level of each colour per screen for R/G/B, Y/PB/PR, Y/CB/CR. Over-level function enables peak brightness to be checked at a glance. The display allows a double-size display** option, and selection of display position or translucence functions.

Waveform

■ Advanced Audio Level Meter

The channel number is displayed in each level bar. And, you can check the status of the audio signal at a glance for Reference Level/Over Level 0 dB, three set levels, and peak hold function.

Audio Level Meter



*Two display sizes cannot be displayed at the same time.
**The position is fixed for double-size display.

DT-V G SERIES

24" Multi-Format LCD Monitor

Advanced 3G/Dual-link HD monitor with IPS panel

Features

- 1920 x 1200 resolution
- Wide viewing angle 178°/178° with IPS panel
- 102% color gamut
- 3G/dual link equipped
- Circuits that deliver low latency of less than one frame
- Waveform monitoring with over level function
- Vector scope with selectable size and position
- Advanced audio level meter up to 12 channels
- Exclusive JVC image processing technology
- LTC & VITC support
- Selectable gamma preset modes
- Digital closed captioning
- Easy-to-operate front panel controls
- Front LED dimmer function
- Source ID input by ASCII code (Red/Green/White color linked with tally)
- Information position selectable
- 1:1 mode
- Gold-plated HD/SD SDI terminals with embedded audio, video and COMPONENT/RGB terminals
- DVI-D with HDCP terminal
- RS-232C, RS-485 remote
- Audio speaker built-in
- Rugged, adjustable stand provided

Input Format

VIDEO	Input terminals					
Signal name	Video IN1, IN2	COMPO. /RGB (Analogue component/Analogue RGB)*1	E. AUDIO SDI (IN 1, IN 2)*2 SD/HD (1.5G)	3G SDI	DUAL LINK	DVI-D (HDCP)(Digital component/digital RGB)
NTSC	✓	—	—	—	—	—
PAL	✓	—	—	—	—	—
BW(50Hz/60Hz)	✓	—	—	—	—	—
480/59.94i, 60i	—	✓	✓	—	—	✓
576/50i	—	✓	✓	—	—	✓
480/59.94p, 60p	—	✓	—	—	—	✓
576/50p	—	✓	—	—	—	✓
640 x 480/59.94p, 60p	—	—	—	—	—	✓
720/23.98p, 24p, 25p, 29.97p, 30p	—	✓	✓	✓	—	—
720/50p, 59.94p, 60p	—	✓	✓	✓	—	✓
1080/50i, 59.94i, 60i	—	✓	✓	✓	✓	✓
1080/50p, 59.94p, 60p	—	—	—	✓	✓	✓
1035/59.94i*4, 60i*3	—	✓*3*4	✓	—	—	✓*3*4
1080/23.98p, 24p, 25p, 29.97p, 30p	—	✓	✓	✓	✓	✓
1080/23.98psf, 24psf, 29.97psf*4, 30psf*3	—	✓*3*4	✓*3*4	✓	✓	—
1080/25psf	—	—	—	✓	✓	—

*1: Analog component/analog RGB signals are compatible with G on sync signal, Y on sync signals, and composite sync signals (CS). The separate sync signal (HS/VS) is not compatible.
*2: Compatible with EMBEDDED AUDIO signals.
*3: The signal is recognized as 1080/60i, and the status is displayed as "1080/60i."
*4: The signal is recognized as 1080/59.94i, and the status is displayed as "1080/59.94i."

Specifications

Model		DT-V24G1Z
Type		Multi format LCD monitor
Screen Size		Type 24 wide format
Aspect Ratio		16:10
LCD Panel		24" wide, active matrix TFT
Effective Screen Size (W x H)		518.4 x 324 mm (20-1/2" x 12-7/8")
Pixels		1920 x 1200
Display Colors		16.77 million
Viewing Angle	Horizontal	178°
	Vertical	178°
Brightness		400 cd/m²
Contrast Ratio		1000: 1
Response Time (G to G)		5 ms (TYP)
Horizontal/Vertical Frequency (PC signals)	Horizontal	31.469 kHz to 75.000 kHz
	Vertical	48 Hz - 65 Hz
		Depending on the signal within the range of these frequencies, some signals may not be displayable in which case, "Out of range " is shown.
Applicable Standard		3G SDI (Ready) : SMPTE424M/SMPTE425M DUAL LINK HD SDI: SMPTE372M HD SDI: BTA S-004C, SMPTE292M SD SDI: ITU-R BT.656: 525/625, SMPTE259M: 525 EMBEDDED AUDIO: SMPTE299M, SMPTE272M
Audio Output		Internal speaker: 1.0 W + 1.0 W
Operating Conditions	Operating temperature	5°C to 35°C (41°F to 95°F)
	Operating humidity	20% to 80% (non condensing)
	Storage temperature	-20°C to 60°C
Power Requirements		AC 120/220-240 V,50/60 Hz
Rated Current		1.15 A (AC 120 V) / 0.67 A (AC 220 – 240 V)
Dimensions (WxHxD) excluding protrusions)	With desktop stand	564 x 448.6 x 243 mm (22-1/4" x 17-3/4" x 9-5/8")
	Without stand	564 x 408 x 99 mm (22-1/4" x 16-1/8" x 4")
Weight	Including stand	11.6 kg (25.5 lbs.)
	Excluding stand	8.7 kg (19.1 lbs.)
Provided Accessories		AC power cord, power cord holder x 1, screw x 2 (for power cord holder)

Input/Output Terminals

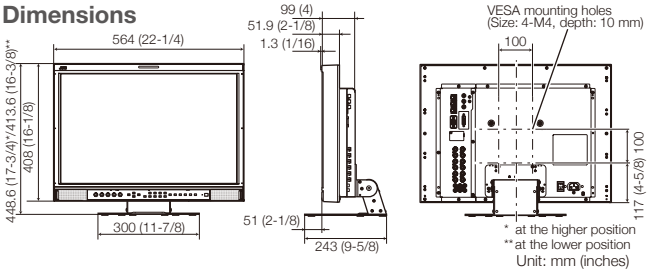
Video	VIDEO (INPUT 1)	Input/output of composite signal: 2 line, BNC connector x 4, 1 V(p-p), 75 Ω * The input (IN) and output (OUT) terminals are bridgeconnected (auto termination).
	VIDEO (INPUT 2)	
	DVI-D (HDCP)	DVI-D signal input (compatible with HDCP): DVI-D connector x 1 (compatible with DDC2B)
	COMPO./RGB (GY, B/PB/B-Y, R/PR/R-Y)	Input/output of analog component signal/analogue RGB signal: 1 line, BNC connector x 6 G/Y: 1 V(p-p), 75 Ω (including sync signal) B/PB/B-Y, R/PR/R-Y: 0.7 V(p-p), 75 Ω * The input (IN) and output (OUT) terminals are bridgeconnected (auto termination)
	EXT.SYNC (CS)	Input/output of composite sync signal: 1 line, BNC connector x 2, 0.3 V(p-p) – 4 V(p-p), 75 Ω (tri-level sync, negative polarity sync (bi-level), and BB) (including no video signal) * The input (IN) and output (OUT) terminals are bridgeconnected (auto termination)
	E. AUDIO HD/SD SDI (IN 1)	Digital signal input (compatible with EMBEDDED AUDIO/ DUAL LINK signals): auto detection, 2 line, BNC connector x 2
	E. AUDIO HD/SD SDI (IN 2)	
	E. AUDIO HD/SD SDI (SWITCHED OUT)	Digital signal output (compatible with EMBEDDED AUDIO signals): 1 line switched out, BNC connector x 1
Audio	AUDIO ASSIGN (IN1)	Analog audio signal input: 2 line, RCA connector x 4, 500 mV (rms), high impedance
	AUDIO ASSIGN (IN2)	
	AUDIO ASSIGN (MONITOR OUT)	Analog audio signal output: 1 line, RCA connector x 2, 500 mV (rms)
External Control	REMOTE (MAKE/TRIGGER)	RJ-45 x1 (8-pin)
	REMOTE (RS-485)	RJ-45 x2 (IN/OUT) (8-pin)
	REMOTE (RS-232C)	D-sub(9-pin) x1

Computer Signals

Signal name	Resolution Horizontal	Resolution Vertical	Frequency Horizontal (kHz)	Frequency Vertical (Hz)	Scan system
VGA60	640	480	31.5	59.9	Non-interlace
WVGA60	852	480	31.5	59.9	Non-interlace
SVGA60	800	600	37.9	60.3	Non-interlace
XGA60	1024	768	48.4	60.0	Non-interlace
WXGA (1280)	1280	768	47.8	60.0	Non-interlace
WXGA+60	1440	900	55.9	60.0	Non-interlace
SXGA60	1280	1024	64.0	60.0	Non-interlace
WSXGA+60	1680	1050	65.2	60.0	Non-interlace
UXGA60	1600	1200	75.0	60.0	Non-interlace
WUXGA60	1920	1200	74.0	60.0	Non-interlace
720/60p	1280	720	45.0	60.0	Non-interlace
1080/60p	1920	1080	67.5	60.0	Non-interlace
720/50p	1280	720	37.5	50.0	Non-interlace
1080/50p	1920	1080	56.25	50.0	Non-interlace

■ *When a preset signal comes in, the signal format is shown on the status display. For other signals, the resolution is shown.*

Dimensions



Front Panel

Rear Panel

Printed in Japan
ICN-0393