JVC®

The Perfect Experience

24” Multi-Format LCD Monitor

# DT-V24G1

- 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

*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.

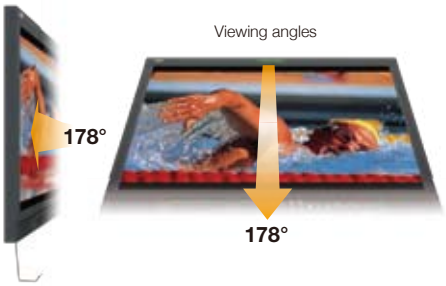
■ 3G-SDI Input Format

*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*

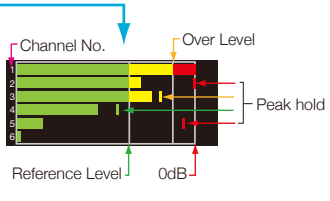
Detects video, component (except RGB), SDI, DVI (except PC) brightness signals and displays them with resolution of 360 x 254 for SD signals or resolution of 480 x 254 for HD signals. Besides, it is also possible to perform checks at the colour signal level of each colour per screen for R/G/B, Y/PB/PR, 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% colour 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
- Wide selection of video production functions
- Easy-to-operate front panel controls
- Front LED dimmer function
- Source ID input by ASCII code (Red/Green/White colour 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-V24G1 |
|---|---|---|
| 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 Colours | | 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<br>DUAL LINK HD SDI: SMPTE372M<br>HD SDI: BTA S-004C, SMPTE292M<br>SD SDI: ITU-R BT.656: 525/625, SMPTE259M: 525<br>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**

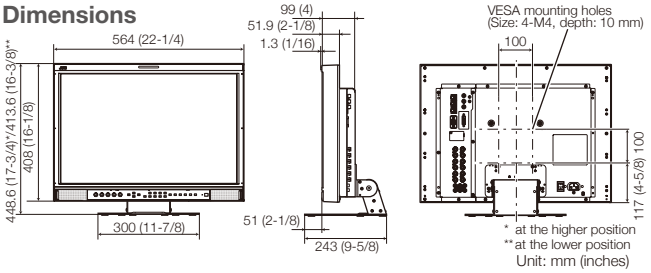
| | | |
|---|---|---|
| Video | VIDEO (INPUT 1) | Input/output of composite signal: 2 line, BNC connector x 4, 1 V(p-p), 75 Ω * The input (IN) and output (OUT) terminals are bridgeconnected (auto termination). |
| | VIDEO (INPUT 2) | |
| | DVI-D (HDCP) | DVI-D signal input (compatible with HDCP): DVI-D connector x 1 (compatible with DDC2B) |
| | COMPO./RGB (GY, B/PB/B-Y, R/PR/R-Y) | Input/output of analogue component signal/analogue RGB signal: 1 line, BNC connector x 6<br>G/Y: 1 V(p-p), 75 Ω (including sync signal)<br>B/PB/B-Y, R/PR/R-Y: 0.7 V(p-p), 75 Ω<br>* 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) | Analogue audio signal input: 2 line, RCA connector x 4, 500 mV (rms), high impedance |
| | AUDIO ASSIGN (IN2) | |
| | AUDIO ASSIGN (MONITOR OUT) | Analogue 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



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