JVC

DT-V17G15

Near EBU Grade 1 LCD monitor, offering outstanding color gamut, gamma and greyscale characteristics. The DT-V17G15 enables accurate viewing of colors and image quality of HD broadcast footage. For the most critical image analysis in studio and professional applications, there's no better choice than JVC's DT-V17G15 reference grade monitor.

HIGHLIGHTS

Near Grade 1 LCD Monitor

The DT-V17G15 is a near EBU Grade 1 LCD monitor. In addition to color gamut, luminance ranges and color temperature that meet EBU specs, two critical factors — gamma and greyscale performances — were also improved to satisfy the discerning requirements of studio and professional applications.

Gamma characteristic: Set at 2.2±0.10 at factory default, the monitor offers four pre-set gamma modes (2.2, 2.35, 2.45, and 2.6) to accommodate a wide range of applications.
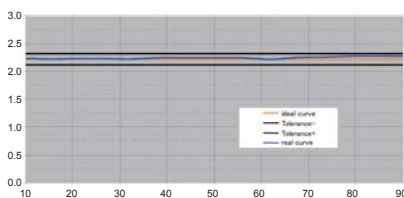

Diagram 1: Gamma curve between 10% and 90% signal level. Blue line (real curve) indicates the monitor.
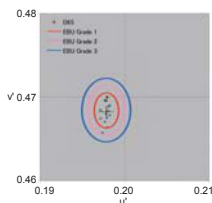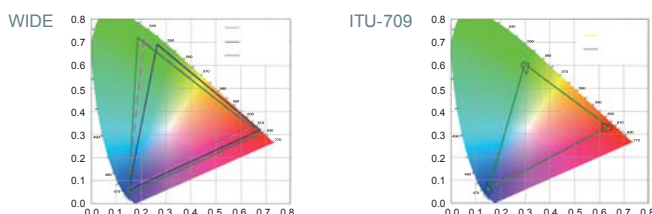
Greyscaling :
D65 for luminance from 1cd/m² to 200cd/m²

Diagram 2: The dots are located mainly inside innermost "±0.003Δu',±0.004Δv'" range.

Color gamut: The monitor offers two modes, ITU-709 (default) to achieve color gamut, and WIDE that covers 110% (NTSC) of the panel's color space.

WIDE

ITU-709

Panel and Optical Performance

The monitor's IPS panel offers wide viewing angles and low chromatic variation with 10-bit processing to help increase the shades of grey for smooth gradation. Optical characteristics are 800:1 contrast ratio, 300cd/m²brightness. And best of all, the monitor features mercury-free RGB LED backlighting for greater energy efficiency and reliability.

LCD Panel Advantages

LCD is flicker-free to assure constantly stable viewing that is easy-on-the eye. But the real benefit of using LCD in a studio monitor is the WYSIWYG advantage – what you see on the DT-V17G15 LCD monitor during production is what consumers will see on their LCD TVs at home – no unwelcome surprises. Since LCD still dominates home televisions today, it makes sense to maintain LCD as your reference.

3G/Dual Link Support

In addition to DUAL LINK HD-SDI, the monitor supports the latest 3G-SDI interface capable of transferring 1080p uncompressed digital video data at 60fps 3Gbit/s max. Displayable 3G-SDI signals are:

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

On-screen Marker Functions

Waveform and Vector Scope* can be displayed on-screen for checking the hue, saturation and brightness of input signals. Also, a 16-channel audio level meter can be displayed for each channel so you can check the audio signal status, such as peak audio and graduation levels. These on-screen markers are indispensable for studio and other professional applications.

*Waveform and Vector Scope cannot be displayed at the same time.

DT-V G Series
17" Multi-Format LCD Monitor

Supports 3G-SDI/Dual-Link SDI

Selectable gamma preset modes: Gamma 2.2, 2.35, 2.45, and 2.6

Full HD 10-bit processing on a 10-bit panel

Wide viewing angle with IPS panel

LED backlight (RGB)

Colour space modes: ITU-709 and WIDE

LTC, VITC, and D-VITC support

Built-in Waveform/Vector Scope*

Various marker functions

Audio level meter up to 16ch

AC/DC power input

* Waveform and Vector Scope cannot be displayed at the same time.

Rear terminals

Other features

- 1920 x 1080 resolution
- Circuits that deliver low latency of less than one frame
- AC/DC operation
- Exclusive JVC image processing technology
- 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 color linked with tally)
- Information position selectable
- 1:1 mode
- Gold-plated HD/SD SDI terminals with embedded audio
- DVI-D with HDCP terminal
- RS-232C, RS-485 remote
- Audio speaker built-in
- Rugged, adjustable stand provided

Specifications

Model		DT-V17G15
Type		Multi-format HDTV/SDTV LCD monitor
Screen Size		Type 17 wide format
Aspect Ratio		16:9
LCD Panel		17.3" wide, active matrix TFT
Effective Screen Size (W x H)		372.9 x 209.7 mm (14-11/16" x 8-1/4")
Pixels		1920 x 1080 (Full HD)
Display Colours		1073 million
Viewing Angle	Horizontal	178°
	Vertical	178°
Brightness		300 cd/m²
Contrast Ratio		800:1
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 (Ready): SMPTE372M
		HD-SDI: BTA S-004C, SMPTE292M
		SD-SDI: ITU-R BT.656: 525/625, SMPTE259M: 525
		EMBEDDED AUDIO: SMPTE299M, SMPTE272M
Audio Output		Internal: 1.0 W + 1.0 W (L/R)
Environmental 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 (-4°F to 140°F)
Power Requirements		AC 120/220-240 V, 50/60 Hz/DC 12 – 17 V
Rated Current		AC: 0.6 A (120 V), 0.4A (220 – 240 V) / DC: 4.0 A (12 – 17 V)
Dimensions (WxHxD) excluding protrusions	With stand	430 x 349.8 x 199 mm (17" x 13-7/8" x 7-7/8")
	Without stand	430 x 309 x 102 mm (17" x 12-1/4" x 4-1/8")
Weight	With stand	7.1 kg (15.6 lbs.)
	Without stand	5.4 kg (11.9 lbs.)
Provided Accessories		AC power cord x 2, power cord holder x 1, screw x 2 (for power cord holder)

Input format

√: Compatible
—: Not compatible

VIDEO	Input terminals						
Signal name*1	Video	COMPO. (Analogue component)*2	E. AUDIO SDI (IN 1, IN 2)*3				DVI-D (HDCP) (Digital component/digital RGB)
			HD/SD-SDI	3G-SDI	DUAL LINK		
NTSC	√	—	√	—	—		—
PAL	√	—	√	—	—		—
BW50/60	√	—	—	—	—		—
480/60i	—	√	√	—	—		—
480/59.94i	—	√	√	—	—		—
480/60p/59.94p	—	√	√	—	—		—
640x480/60p/59.94p	—	√	—	—	—		√
576/50i	—	√	√	—	—		—
576/50p	—	√	√	—	—		—
720/23.98p/24p/25p/29.97p/30p	—	√	√	√	—		—
720/60p/59.94p/50p	—	√	√	√	—		—
1035/60/59.94i	—	√	√	√	—		—
1080/60/59.94i/50i	—	√	√	—	—		—
1080/23.98p/24p/25p/29.97p/30p	—	√	√	—	—		—
1080/60p/59.94p/50p	—	—	—	√	√		—
1080/25PsF	—	—	√	—	—		—
1080/23.98PsF/24PsF/29.97PsF/30PsF	—	—	√	—	—		—

*1: The signal format is displayed on screen when signals of above table are input.
*2: Analog component signals are compatible with Y on sync signals.
*3: Compatible with EMBEDDED AUDIO signals.

Input/output connectors

Video	SD/HD-SDI/3G-SDI (IN)	BNC x1 / ch x2
	SD/HD-SDI/3G-SDI (OUT)	BNC x1 (Switched and rec. locked)
		SD (YPbPr), HD (YPbPr): SMPTE 292M
		HD/3G (YPbPr, RGB): SMPTE 424M/425M with embedded audio
	DVI-D (HDCP)	DVI-D signal input (compatible with HDCP):
		DVI-D connector x 1 (compatible with DDC2B)
	COMPO.	IN: BNC x3
		OUT: BNC x3 / SD (YPbPr), HD (PbPr)
	VIDEO	Composite video signal input/output: 1 line, BNC x 2, 1 V (p-p), 75 ohms
		(IN and OUT are connected with a bridge connection. Auto termination)
Audio	AUDIO IN	Analog audio signal input: 1 line, RCA x 2, 500 mV (rms), high impedance
	AUDIO MONITOR OUT	Analog audio signal output: 1 line, RCA x 2, 500 mV (rms)
External Control	MAKE/TRIGGER	RJ-45 x1 (8-pin)
	RS-485	RJ-45 x2 (IN/OUT)(8-pin)
	RS-232C	D-sub(9-pin) x1

Computer (preset): DVI-D (HDCP) inputs

No.	Signal name	Resolution		Frequency		Scan system
		Horizontal	Vertical	Horizontal (kHz)	Vertical (Hz)	
1	VGA60	640	480	31.5	59.9	Non-interlace
2	WVGA60	852	480	31.5	59.9	Non-interlace
3	SVGA60	800	600	37.9	60.3	Non-interlace
4	XGA60	1024	768	48.4	60.0	Non-interlace
5	WXGA (1280)	1280	768	47.8	60.0	Non-interlace
6	WXGA+60	1440	900	55.9	60.0	Non-interlace
7	SXGA60	1280	1024	64.0	60.0	Non-interlace
8	WSXGA+60	1680	1050	65.2	60.0	Non-interlace
9	UXGA60*1	1600	1200	75.0	60.0	Non-interlace
10	WUXGA60*1	1920	1200	74.0	60.0	Non-interlace
11	720/60p	1280	720	45.0	60.0	Non-interlace
12	1080/60p	1920	1080	67.5	60.0	Non-interlace
13	720/50p	1280	720	37.5	50.0	Non-interlace
14	1080/50p	1920	1080	56.25	50.0	Non-interlace

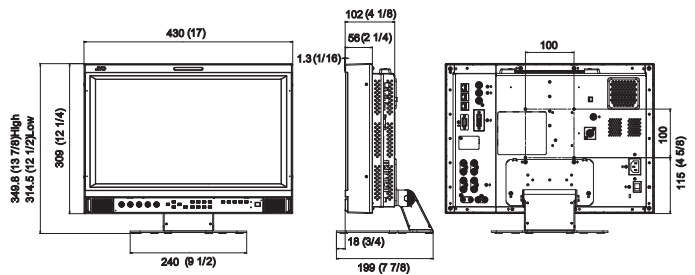*1: In 1:1 mode, the top and bottom of the screen will be hidden.

External dimensions Unit: mm (inches)

430 (17)
102 (4 1/8)
56 (2 1/4)
1.3 (1/16)
100
349.8 (13 7/8)High
314.5 (12 1/2)Low
309 (12 1/4)
100
115 (4 5/8)
240 (9 1/2)
18 (3/4)
199 (7 7/8)

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