21" multi-format LCD monitor

DT-V21G11

An indispensable monitor for professional studio applications, the DT-V21G11 offers 3G-SDI and dual link HD-SDI connections, plus handy features including vector scope, waveform monitor and audio level meter.

HIGHLIGHTS

Supports 3G-SDI and Dual Link HD-SDI

The DT-V21G11 supports dual-link HD-SDI (SMPTE 372M) and the latest 3G-SDI (SMPTE 424M) and dual-link HD-SDI (SMPTE 372M) interfaces, both of which are capable of transferring 1080p uncompressed digital video datatransmitted at a max rate of 60fps at 3Gbit/s. 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

Full HD resolution LCD panel with LED backlighting

The monitor features a 1920 x 1080 pixel full HD resolution LCD panel with LED backlighting. Compared to CCFL backlit monitors, LED backlit LCD monitors are more energy efficient, radiate little heat, and best of all, are free of mercury.

ITU-709 color space

The DT-V21G11 is compatible with ITU-709 standard color space for HDTV broadcasting.

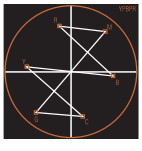
Wide viewing angles with IPS panel

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

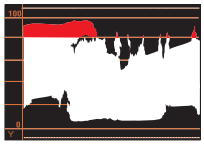
Supports 3 time codes: LTC, VITC, & D-VITC

Built-in vector scope and waveform monitor

The vector scope is used for checking the input signal's hue and saturation. The displayed scope can be displayed in one of two sizes for ease of use. The waveform monitor detects the brightness of the input; its display position can be selected from one of four corners. Both displays can be made translucent or solid for simultaneous checking of the image and the scope/waveform.



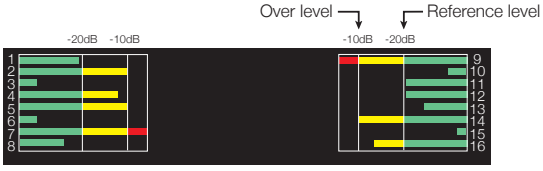
Vector Scope (V.S.) with color bar displayed



Example of a Wave Form Monitor

16-channel audio level meter

A convenient 16-channel audio level meter with multiple indications such as peak hold showing peak audio levels, channel numbers for each channel bar, and graduation levels, provides at-a-glance recognition of audio signal status.



DT-V Series

Multi-format LCD monitor

Other features

- 10-bit image processor
- 1,000:1 contrast ratio
- 16.7 million display colors
- 11 marker functions: area, marker aspect, safety, centre and more
- Gold-plated HD/SD SDI connector with embedded audio
- Low latency: less than one frame
- 3 external control terminals: MAKE/TRIGGER, RS-232C, and RS-485
- Tally lamp
- Built-in speakers (1W x 2)
- Digital closed caption on models for the US market

Front controls

Rear terminals

Compatible signals (video)

√: Acceptable
—: Not acceptable

No.	Signal name	Signal format shown in the status display	Video	Analog COMPO.*1	Input terminal E. AUDIO SDI (IN 1, IN 2)* 2			DVI-D (HDCP) (Digital component/ Digital RGB)
					SD/HD (1.5G)	3G SDI	DUAL LINK	
1	NTSC	NTSC	√	—	—	—	—	—
2	PAL	PAL	√	—	—	—	—	—
3	B/W50	B/W50	√	—	—	—	—	—
4	B/W60	B/W60	√	—	—	—	—	—
5	480/60i	480/60i	—	√	—	—	—	—
6	480/59.94i	480/59.94i	—	√	√	—	—	—
7	576/50i	576/50i	—	√	√	—	—	—
8	480/60p	480/60p	—	√	—	—	—	√
9	480/59.94p	480/59.94p	—	√	—	—	—	√
10	576/50p	576/50p	—	√	—	—	—	√
11	640*480/60p	640*480/60p	—	—	—	—	—	√
12	640*480/59.94p	640*480/59.94p	—	—	—	—	—	√
13	720/60p	720/60p	—	√	√	√	—	√
14	720/59.94p 7	20/59.94p	—	√	√	√	—	√
15	720/50p	720/50p	—	√	√	√	—	√
16	720/30p	720/30p	—	√	√	√	—	—
17	720/29.97p	720/29.97p	—	√	√	√	—	—
18	720/25p	720/25p	—	√	√	√	—	—
19	720/24p	720/24p	—	√	√	√	—	—
20	720/23.98p	720/23.98p	—	√	√	√	—	—
21	1080/60i	1080/60i	—	√	√	√	√	√
22	1080/59.94i	1080/59.94i	—	√	√	√	√	√
23	1035/60i	1035/60i	—	√*6	√	—	—	—
24	1035/59.94i	1035/59.94i	—	√*7	√	—	—	—
25	1080/50i	1080/50i	—	√	√	√	√	√
26	1080/60p	1080/60p	—	—	—	√	√	√
27	1080/59.94p	1080/59.94p	—	—	—	√	√	√
28	1080/50p	1080/50p	—	—	—	√	√	√
29	1080/30p	1080/30p	—	√	√	√	√	√
30	1080/29.97p	1080/29.97p	—	√	√	√	√	√
31	1080/25p	1080/25p	—	√	√	√	√	√
32	1080/24p	1080/24p	—	√	√	√	√	√
33	1080/23.98p	1080/23.98p	—	√	√	√	√	√
34	1080/30PsF	1080/30psf	—	√*6	√*6	√*3	√*3	—
35	1080/29.97PsF	1080/29.97psf	—	√*7	√*7	√*4	√*4	—
36	1080/24PsF	1080/24psf	—	√	√	√	√	—
37	1080/23.98PsF	1080/23.98psf	—	√	√	√	√	—
38	1080/25PsF	1080/25psf	—	—	√*8	√*5	√*5	—

*1 Analog component signals are compatible with Y on sync signals. *2 Compatible with EMBEDDED AUDIO signals. *3 If there is no payload ID, the signal is regarded as 1080/60i, and "1080/60i" and the status appear. *4 If there is no payload ID, the signal is regarded as 1080/59.94i, and "1080/59.94i" and the status appear. *5 If there is no payload ID, the signal is regarded as 1080/50i, and "1080/50i" and the status appear. *6 The signal is regarded as 1080/60i, and "1080/60i" and the status appear. *7 The signal is regarded as 1080/59.94i, and "1080/59.94i" and the status appear. *8 The signal is regarded as 1080/50i, and "1080/50i" and the status appear.

Specifications

Model	DT-V21G11 (Europe)	DT-V21G11Z (US)
DISPLAY DEVICE		
Type	Multi-format LCD display	
Screen size	21-inch wide format	
Effective screen size (W x H x Diagonal)	475 x 267 x 545 (18 3/4" x 10 9/16" x 21 1/2")	
Aspect ratio	16:9	
Number of pixels displayed	1,920 x 1,080 (Full HD)	
Number of colors displayed	16.7 million	
Surface treatment	Non-gloss	
Viewing angle (horizontal/vertical)	178°/178° (typical)	
Contrast ratio	1000:1	
Backlighting	LED	
GENERAL		
Format	3G SDI: SMPTE 424M/SMPTE 425M; Dual Link HD SDI: SMPTE 372M; HD SDI: BTA S-004C, SMPTE 292M; SD SDI: ITU-R BT.656: 525/625, SMPTE 259M: 525; Embedded Audio: SMPTE 299M, 272M	
Audio output	Internal speaker: 1.0 W + 1.0 W	
Operating conditions	Temperature: 5°C – 35°C (41°F – 95°F); Humidity: 20% – 80% (non-condensing)	
Power requirements	AC 120 V/220 – 240V, 50/60 Hz	
Rated current	0.4 A (AC 220 - 240 V)	0.6 A (AC 120 V)
VESA standard	100 mm x 100 mm (M4 x 4 mm screw)	
Dimensions (W x H x D) With stand	515 x 387.8 (high)/352.5 (low) x 199 mm (20 3/8" x 15 3/8" (high)/14" (low) x 7 7/8")	
Without stand	515 x 347 x 99.8 mm (20 3/8" x 13 3/4" (low) x 4")	
Net weight with/without stand	7.9 kg/6.1 kg (17.4 lbs/13.4 lbs)	

Input/output connectors

DVI-D		DVI-D signal input (compatible with HDCP): DVI-D connector x 1 (compatible with DDC2B)
E. AUDIO 3G SDI/HD SDI/SD SDI (IN 1)		Digital signal input (compatible with EMBEDDED AUDIO/DUAL LINK signals): Auto detection, 2 line, BNC connector x 2
E. AUDIO 3G SDI/HD SDI/SD SDI (IN 2)		
E. AUDIO 3G SDI/HD SDI/SD SDI (SWITCHED OUT)		Digital signal output (compatible with EMBEDDED AUDIO signals): 1 line switched out, BNC connector x 1
Video input/output*	Composite	1 line, BNC x 2, 1 V (p-p), 75 Ω
Component input/output*		1 line, BNC x 6 Y: 1 V (p-p), 75 Ω ; PB/B-Y, PR/R-Y: 0.7 V (p-p), 75 Ω
Audio input		1 line, RCA x 2 (L/R) stereo mini jack x 1, 500 mV (RMS), high impedance
Audio output		1 line, RCA x 2 (L/R) monitor out, 500 mV (RMS)
External controls (REMOTE)	MAKE/TRIGGER: 8-pin	RJ-45 x 1
	RS-485: 8-pin for IN	RJ-45 x 1
	RS-485: 8-pin for OUT	RJ-45 x 1
	RS-232C: 9-pin	D-sub x 1

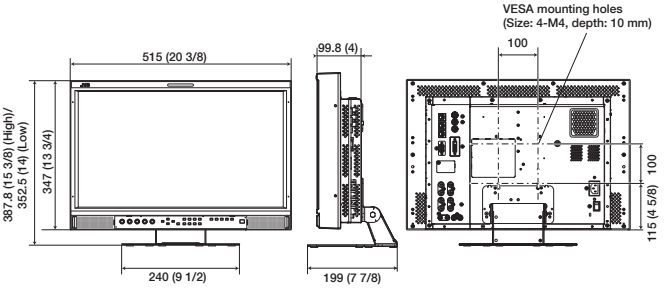
*Input and output connectors are bridge-connected.

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

No.	Signal name	Resolution		Resolution		Resolution
		Horizontal	Vertical	Horizontal (kHz)	Vertical (Hz)	Scan system
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)



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