

JVC[®]

The Perfect Experience / —
/

LCD MONITORS

For the most critical eye...yours.



The Image Aesthetics of



Character 'イ' on CRT

The history of JVC monitors overlaps with that of the birth and development of Japanese monitors, which can be traced back to Dr. Kenjiro Takayanagi, known in Japan as the “father of television”. When Dr. Takayanagi, in 1925, first displayed the Japanese character “イ” on a CRT, he laid the foundation for a development approach that is stronger today than ever before. The path opened up by this has led to a stream of landmark technical achievements for the company.

Since the launch of our first color television in 1960, our progress has been marked with evolving mass-production systems that consistently achieve higher performance, lower costs, and enhanced quality control. JVC’s line-up of color monitors embraces the concept of “image communication” to provide an interface between mind and technology. So, whatever your application, JVC has a monitor that delivers the features and sophistication that you need.

Throughout its history, JVC’s tireless pursuit for high quality images has driven the company to realize unique technologies and images embodying the company’s enthusiasm for the “creation of images” that bring the creators’ intentions and beliefs to life. This is the origin of the image aesthetic of JVC monitors.

The biggest transition in the history of monitors occurred with the dawn of the current hi-vision era. At the time, JVC had already established its own image aesthetic based on the concept of “creation of a calm image with low black luminance”. This “smooth image” is highly praised by professionals.

Full-fledged production of HD contents is now underway in the current era of full high-vision definition, and JVC’s image aesthetic has further evolved and been adapted to LCD monitors. Its smooth and calm black image matches well with high definition.

JVC’s LCD monitor series features analog-like natural images by keeping the digitization of input signals to a minimum. Minimal digitization processing is also applied to moving images, succeeding in offering constant sharp and clear images with deep black technology by means of optimized IP conversion. JVC’s original image processor, with its particular emphasis on “reproduction of raw signals”, has succeeded in reproducing high-definition signals used in a production site into images with unconstrained definition and sharpness.

JVC Monitors





JVC Techno WING gathering of leading-edge technology



This example shows how the high performance of the DT-V series is verified and introduced in the OB-VAN.

The Image Aesthet



While media and signalling systems have changed, and flat displays have become the mainstream in the field of display devices, JVC's basic philosophy of image creation remains unchanged.

Moreover, JVC's technical capabilities are verified by various tests conducted by the quality control division, including tests in a large thermostat, a medium-sized and a small-sized constant temperature/humidity chamber, a vibration testing system, and a central signal room.

High Constant Temperature

High temperature test

Verifies basic performance and functions of products at high temperatures.

Long-term running test

Highly innovative systems are tested for about 50,000 hours after shipment to determine the average time when the first failure will occur. The data thus gained is applied to customer services and the development of the next system.

High temperature and humidity test

Evaluates products in a high humidity environment. This is a very important test in terms of moisture absorption and the difference in air pressure due to humidity at each part.

Temperature stress test

Verifies the marginal utility of products by applying high-temperature stress for short-term product development.

Low temperature performance test

Verifies the basic performance and functions of products at low-temperature start-up.

Ultra-low temperature performance test

Tests products around the minimum temperature to verify fatigue due to the different shrinkage and expansion factors of plastic and metal.

Thermal shock test

Reliability testing by means of thermal fatigue is a vital process. Testing is made over a long period of time, with high and low temperatures being repeatedly applied to the products.

Vibration test system

Verifies products by applying random vibration in three directions (X, Y, Z) simultaneously. Data is acquired by a sensor incorporated in products with specifications of various countries or which are actually shipped. Products are verified by multiplying the data with the acceleration factor.

Central signal room


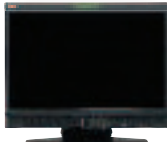

The room transmits TV broadcasting systems all over the world (digital, analog). These signals are shared among the process of development, design and quality assurance, so that products are efficiently promoted. The signals transmitted here are compliant with stricter standards than broadcasting standards.

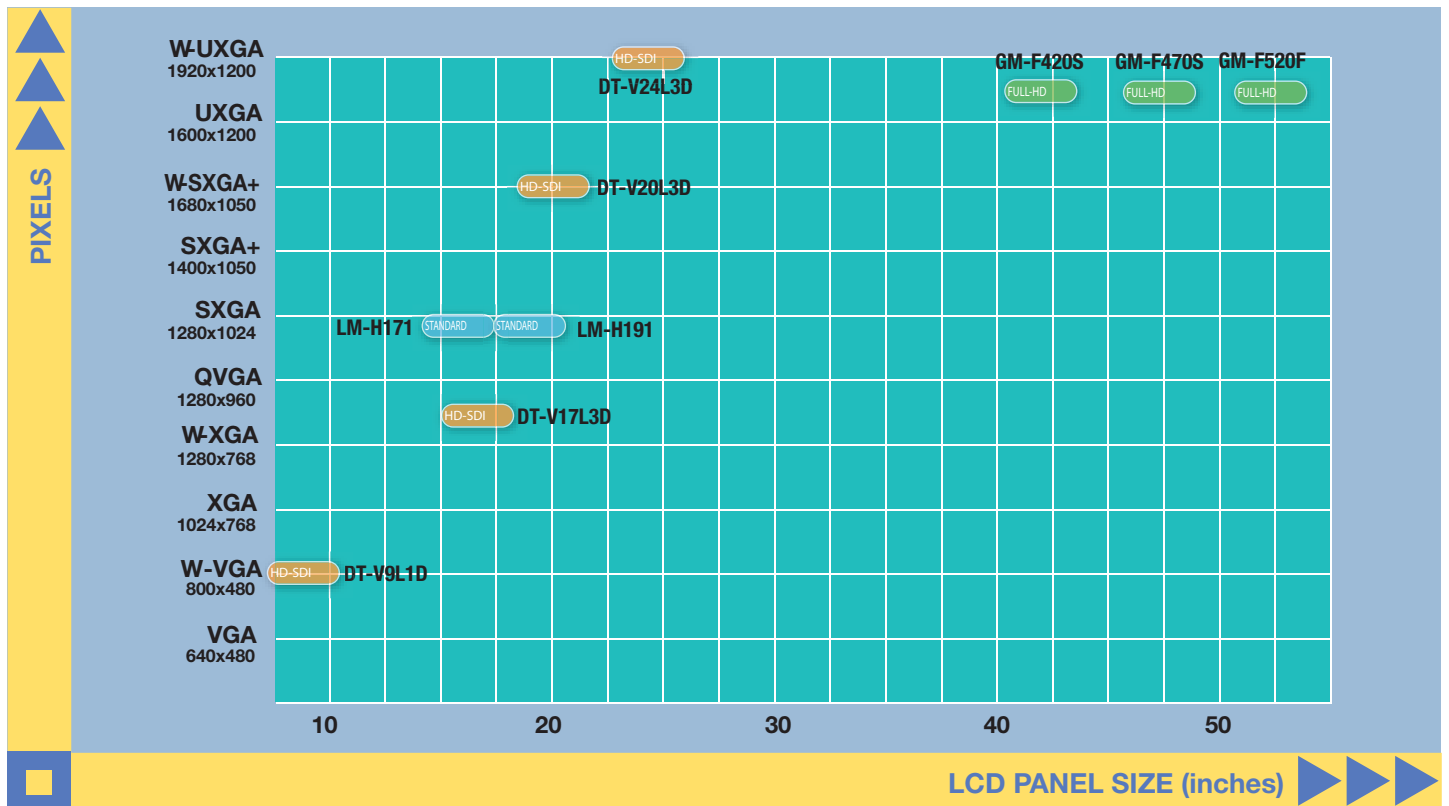
These tests make it possible to deliver more stable and higher quality monitors.



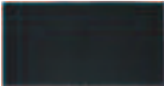

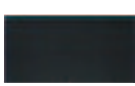
JVC monitors, supported by JVC's image-creation transition and its own technologies and stable quality, have been highly acclaimed by users involved in world broadcasting and television production. They are the perfect choice for any critical monitoring application.

ics of JVC Monitors



		HD-SDI	HD-SDI	HD-SDI	HD-SDI
					
		DT-V24L3D	DT-V20L3D	DT-V17L3D	DT-V9L1D
INPUT TERMINALS	HD/SD-SDI	Gold plated	Gold plated	Gold plated	Gold plated
	DVI-D	✓	✓	✓	—
	Audio	In/Out	In/Out	In/Out	In/Out
	Speaker	Stereo	Stereo	Stereo	Mono
CONTROLS	RS-232C	✓	✓	✓	✓
	RS-485	✓	✓	✓	—
	Make/trigger	✓	✓	✓	✓
FUNCTIONS	Area marker	✓	✓	✓	✓
	Safety marker	✓	✓	✓	✓
	Tally lamp	✓	✓	✓	✓
	Time code	✓	✓	✓	—
	CRC error	✓	✓	✓	—
	Audio level meter	✓	✓	✓	✓
	Source ID display	✓	✓	✓	✓
	1:1 mode	✓	✓	✓	—
	I/P mode	✓	✓	✓	—
	Waveform monitoring	✓	✓	✓	—
INSTALLATION	Stand (Tilt & height adjustable)	✓	✓	✓	✓
	Rack mount	—	Option	Option	Option
	VESA	✓	✓	✓	✓
	Carrying handle	—	—	✓	✓
Power	Power	AC	AC	AC/DC	AC/DC
		P10	P11	P12	P13



STANDARD	STANDARD	FULL-HD	FULL-HD	FULL-HD	
					
LM-H191	LM-H171	GM-F520S	GM-F470S	GM-F420S	
—	—	—	—	—	SDI x 2
✓	✓	✓	✓	✓	DVI-D
In/Out	In/Out	In/Out	In/Out	In/Out	Audio
Mono	Mono	Stereo	Stereo	Stereo	Speaker
—	—	✓	✓	✓	RS-232C
—	—	✓	✓	✓	RS-485
✓	✓	✓	✓	✓	Make/trigger
—	—	✓	✓	✓	LAN Remote
—	—	—	—	—	Tally lamp
✓	✓	✓	✓	✓	Picture mode
✓	✓	✓	✓	✓	CTI/LTI
—	—	—	—	—	1:1 mode
—	—	✓	✓	✓	Native HD 1920 x 1080
—	—	✓	✓	✓	Motion Sensor
—	—	✓	✓	✓	PIP/PBP
300 cd/m ²	300 cd/m ²	700 cd/m ²	700 cd/m ²	700 cd/m ²	High Brightness
—	—	✓	✓	✓	24-hour 7 days operation
—	—	✓	✓	✓	Slim bezel
✓	✓	✓*	✓*	✓*	Stand (Tilt & height adjustable)
Option	Option	—	—	—	Rack mount
✓	✓	✓	✓	✓	VESA
AC	AC	AC	AC	AC	Power
					INPUT TERMINALS
					CONTROLS
					FUNCTIONS
					INSTALLATION

*No tilt or height adjustments

⏏ P16

⏏ P16

⏏ P18

⏏ P18

⏏ P18

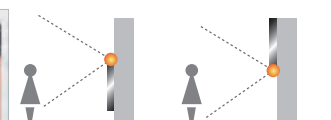
Status display (DT-V series)



Selectable picture modes (LM and GM series)



Motion sensor (GM series)



Features of DT-V Series

High quality pictures

■ Exclusive JVC image processing technology

We've taken our leading-edge image processing technology and refined it to meet the requirements of HD digital imaging systems. Featured within the DT-V24L3D, DT-V20L3D, DT-V17L3D are 10-bit processors and DT-V9L1D is a 8-bit real-time processor, this new system delivers true professional performance, eliminating superfluous processing to ensure natural, analog-style digital image reproduction, while optimizing input conversion to maintain sharp, clear images at all times — even with fast-moving content. JVC's advanced technology also eliminates many of the problems inherent in digital circuits, such as diagonal jaggies, block noise, and mosquito noise, while our exclusive enhancer technology provides accurate image outline correction. The end result is clearly visible on the screen with smoother resolution and crisper, sharper images.



■ High-performance liquid crystal panels

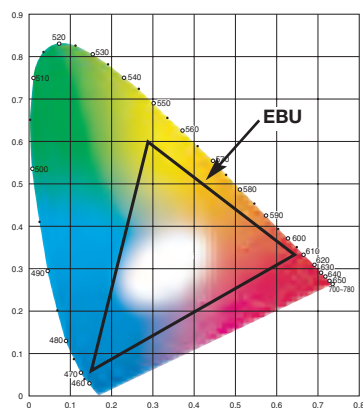
Wide viewing angles, high brightness, excellent focus and contrast performance set JVC's industry-leading DT-V series apart from the competition. In addition, these advanced LCD monitors feature minimal delay between input signal and image display, thus ensuring faithful picture reproduction.

■ Color temperature setting

Three color temperature settings are provided: 9,300°K, 6,500°K, and one user-defined setting.

■ Faithful color reproduction*1

Matrix parameters are set in response to the actual HD or SD input signal. This makes it possible to accurately reproduce colors in strict conformity with ITU standards without having to process color signals. A chromatic range equivalent to EBU 100%, ensures color reproduction that is virtually identical to the original.



INPUT SIGNAL FORMAT	Standard Setting	Preset Format
SDTV	ITU-R BT.601	PAL, NTSC, SECAM*2: 480i, 576i, 480p, 576p
HDTV	ITU-R BT.709	720p, 1035i, 1080i, 1080p

*1: DT-V24L3D, DT-V20L3D and DT-V17L3D only

■ Compatible with multiple HD/SD formats

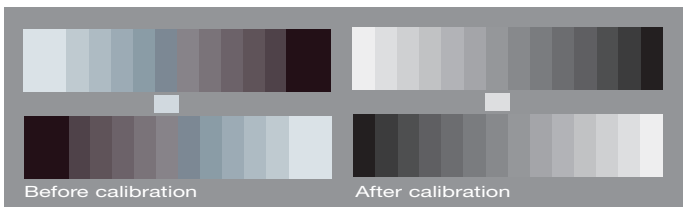
The DT-V24L3D, DT-V20L3D, and DT-V17L3D are all equipped with a full set of HD-compatible inputs. These include two auto-sensing HD/SD inputs, one SDI switched output, and one set of component inputs/outputs. In addition, an HDCP-compatible DVI input is provided for PC connection. The DT-V9L1D is equipped with one auto-sensing HD/SD SDI input, one SDI switched output, and one set of component inputs/outputs.

■ Waveform monitoring

The new waveform monitor on the DT-V24L3D, DT-V20L3D, and DT-V17L3D can be positioned in any of the four corners of the screen and features an 'over' level function, offering clear indication of possible problem areas. In addition, the monitors feature greatly reduced delay between input signal and image display, thus ensuring faithful picture reproduction, and are widely used throughout the post and broadcast industries.

■ Gamma calibration*1

In professional video production, accurate image display is a must. By calibrating each unit's gamma at the factory before it is shipped, JVC is able to ensure extremely precise grey scale characteristics.



System flexibility

■ 4-way remote control

Remote control can be selected from make-contact, trigger-pulse, RS-485 (excluding DT-V9L1D), and RS-232C methods.

■ Functions controlled by MAKE/TRIGGER system

Display	Functions to be controlled	DT-V24L1D	DT-V20L1D	DT-V17L2DU	DT-V9L1DU
COLOR OFF	Color off	✓	✓	✓	✓
ASPECT	Changes the aspect ratio.	✓	✓	✓	✓
A.MARKER	AREA MARKER display	✓	✓	✓	✓
S.MARKER	SAFETY MARKER display	✓	✓	✓	✓
TIME CODE	Time code display	✓	✓	✓	✓
1:1	Displays in 1:1 mode.	✓	✓	✓	✓
SCR CHECK	Screen check	✓*1	✓*1	✓	✓
I/P MODE*1	IP MODE	✓	✓	✓	✓
SDI 1	Changes the input to SDI 1.	✓	✓	✓	✓
SDI 2	Changes the input to SDI 2.	✓	✓	✓	✓
DVI	Changes the input to DVI.	✓	✓	✓	✓
COMP./RGB	Changes the input to COMP./RGB.	✓	✓	✓*2	✓*3
VIDEO 1	Changes the input to VIDEO 1.	✓	✓	✓	✓
VIDEO 2	Changes the input to VIDEO 2.	✓	✓	✓	✓
EXT.SYNC	Changes the sync signal.	✓	✓	✓	✓
TALLY	Controls the tally lamp.	✓	✓	✓*4	✓*4
TALLY SEL	Selects the color of the tally lamp.	✓	✓	✓	✓
MONI. NAME	MONITOR NAME	✓	✓	✓	✓
MUTING	Muting on/off	✓	✓	✓	✓
MARK.SEL	Selects the items of AREA MARKER.	✓	✓	✓	✓
L.METER	Audio level meter display	✓	✓	✓	✓
STATUS	Status display	✓	✓	✓	✓
- - -	No function	✓	✓	✓	✓
FOCUS ASSIST	Focus adjustment	✓	✓	✓	✓
DYNAMIC	Optimization of the brightness	✓	✓	✓	✓
COLOR RANGE MODE	Reduction of the gradation step	✓	✓	✓	✓



For customization, select 8 functions and assign them to 8 pin terminals. *1: TRIGGER pulse control only *2: Component only *3: Video/component *4: Indication cannot be displayed.

Battery powered operation enhances mobility

■ Dual power source

The DT-V17L3D and DT-V9L1D can be powered by a standard AC connection or by 12V DC batteries (Anton Bauer, IDX or PAG) installed via bracket on the rear panel. This dual power system makes these two monitors extremely versatile, enabling HD image review in the field.

● DT-V17L3D



● DT-V9L1D



■ Anton Bauer
Battery: DIONIC 90
Mount: QR DXC-M3A



■ IDX
Battery: ENDURA-7S (E-7S)
Mount: Anton Bauer
QRDXCM3A with IDX A-AB2E
Gold Mount to V-mount
adapter plate.



The DT-V9L1D's stand can be tilted even when batteries are installed, permitting easier image confirmation, and does not fall down.

* The DT-V17L3D's stand can also be tilted with batteries installed.

Easy installation

■ Compact, all-in-one design

Thanks to a slim, space-saving, all-in-one design, these monitors can be installed easily on any wall, shelf, or rack and in a variety of locations such as an OB van, studio control room, or editing studio.

■ VESA-compliant design

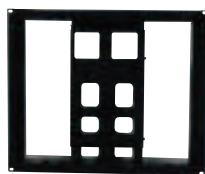
VESA-standard screw holes of 100mm x 100mm pitch are provided. The rigidly constructed rear panel makes all the monitors eminently suitable for wall mounting.

■ Rack-mounted design

The DT-V20L3D is designed to fit on the optional RK-C20D1, at a height of 9U. The DT-V17L3D can be installed in a standard EIA rack with a height of 7U and a width of 17". As for the DT-V9L1D, two units can be rack mounted side by side within a standard EIA rack with a rack height of 4U.



RAK-2024LCD



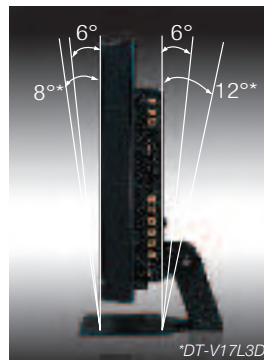
RAK-17LCD

■ Adjustable stand

The metal table-top stand can be tilted up or down by 6° for easier viewing and more flexible installation. When height is restricted the monitor frame can also be installed directly on a shelf or

platform simply by removing the stand. The DV-9L1D can be tilted 10° forward and 20° backward even when batteries are installed, permitting easier image confirmation.

● DT-V24L3D/DT-V20L3D/DT-V17L3D

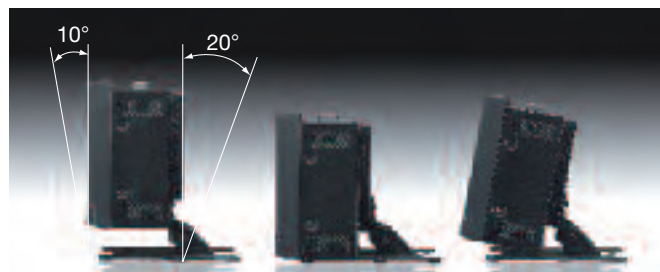


As a conventional desktop stand, showing 6° of tilt in both directions



As a rear support when monitor is resting directly on a flat surface

● DT-V9L1D



Can be tilted 10° forward and 20° backward

Can be placed directly on a flat surface and tilted in a confined space.

Rugged, durable design

■ Connector protection structure

To prevent any damage to the control panel, it is protected by a speaker grille and reinforced edge design. The rear panel connectors are protected by a concave design. This slim, efficient construction is both practical and safe.

■ Metal rear cabinets

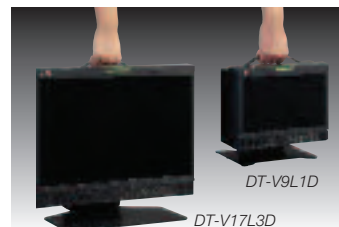
Rugged metal rear cabinets provide excellent heat radiation and greater durability.

■ Convenient grip handle

The DT-V17L3D and DT-V9L1D are fitted with a convenient self-retracting grip handle for easy mobility. The handle contains a metal belt for strength.

■ Protective screen (option)

To keep the LCD panel clean and protect it from scratches or damage, optional screen protection filters are available. These protection filters also suppress reflections when the panels are under bright light. The DT-V9L1D is provided with a protective screen as standard.



DT-V9L1D

DT-V17L3D

HD/SD SDI Gold-plated	INPUT TERMINALS
DVI-D	
Audio In/Out	
Speaker Stereo	
RS-232C	CONTROLS
RS-485 In/Out	
Make/ trigger	
Area marker	
Safety marker	FUNCTIONS
Tally lamp	
Time code	
CRC error	
Audio level meter	
Source ID display	
1:1 mode	
I/P mode	
Waveform monitoring	
Stand (Tilt & height adjustable)	INSTALLATION
VESA	
Power AC	OPERATION

24" Native HD Multi-Format Studio Monitor

DT-V24L3D



Achieving HD images, faithful to original signals, with less than one frame of latency

Features

- 1920x1200 pixels
- Circuits that deliver low latency of less than one frame
- Waveform monitoring with over level function
- Gold-plated HD/SD SDI terminals with embedded audio
- DVI-D with HDCP terminal
- High-performance LCD panel
- Exclusive JVC image processing technology
- Status display in unused section of 16:10 panel
- Wide selection of video production functions
- Easy-to-operate front panel controls
- Rugged, adjustable stand provided
- Source ID input by ASCII code
- Information position selectable
- Full screen mode for SD 4:3 signal
- Analog closed caption (DT-V24L3DY only)

Status Display



*Information can be displayed in the upper or the lower blank area.

Input Format

VIDEO		Input terminals			COMPUTER		Input terminals
Signal name	Video	Component/RGB	HD/SD SDI	DVI-D with HDCP (video)	Signal name	DVI-D (PC)	
NTSC	✓	—	—	—	VGA60	✓	✓
PAL	✓	—	—	—	W-VGA60	✓	✓
BW(50Hz/60Hz)	✓	—	—	—	SVGA60	✓	✓
480/60i	—	✓	✓	✓	XGA60	✓	✓
576/50i	—	✓	✓	✓	W-XGA60 (1280 x 768)	✓	✓
480/60p	—	✓	✓	✓	W-XGA+60 (1440 x 900)	✓	✓
576/50p	—	✓	✓	✓	SXGA60 (1280 x 1024)	✓	✓
640 x 480/60p	—	—	—	✓	1920 x 1080@60/50	—	—
720/24p, 25p, 30p	—	✓	✓	✓	1280 x 720@60/50	—	—
720/50p, 60p	—	✓	✓	✓	W-SXGA+60 (1680 x 1050)	✓	✓
1080/50i, 60i	—	✓	✓	✓	U-XGA60(1600 x 1200)	✓	✓
1080/50p, 60p	—	✓	✓	✓	W-UXGA60 (1920 x 1200)	✓	✓
1035/60i	—	—	—	—			
1035/60p	—	—	—	—			
1080/24p, 25p, 30p	—	✓	✓	✓			
1080/24p, 25p, 30p	—	✓	✓	✓			

*1: It is displayed by 1080/60i.

Front Panel



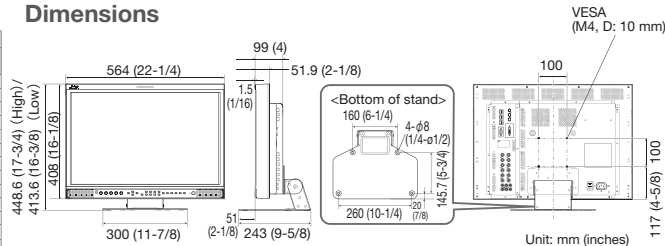
Specifications

Model		DT-V24L3D
Type	Multi-format HDTV/SDTV 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 (20-7/16 x 12-13/16 inches)	
Pixels	1920 x 1200 (W-UXGA)	
Display Colors	16.7 million	
Viewing Angle	Horizontal	176°
	Vertical	176°
Brightness	400 cd/m²	
Contrast Ratio	1000:1	
Response Time (G to G)	8 msec	
Horizontal/Vertical Frequency (PC signals)	Horizontal	31.469 kHz to 75.000 kHz
	Vertical	60 Hz ± 5 Hz
Applicable Standard	Depending on the signal within the range of these frequencies, some signals may not be displayable, in which case, "Out of range" is shown. HD SDI: BTA S-004B, SMPTE292M SD SDI: ITU-R BT.656: 525/625, SMPTE259M: 525 EMBEDDED AUDIO: SMPTE298M, 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	-25°C to 60°C (-13°F to 140°F)
Power Requirements	AC 120/220-240 V, 50/60 Hz	
Rated Current	1.15 A (AC 120V)	
	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, screw x 2 (for power cord holder)	
Option	Protective screen	

Input/Output Terminals

Video	VIDEO 1	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)
	VIDEO 2	
	DVI-D (HDCP)	DVI-D signal input (compatible with HDCP): DVI-D connector x 1 (compatible with DDC2B)
	COMPO/RGB (G/Y, B/Pb/B-Y, R/Pr/R-Y)	Analog component signal/ analog RGB signal input/output: 1 line, BNC x 6 Video signal: G/Y: 1 V (p-p), 75 ohms (sync signal included), B/Pb/B-Y, R/Pr/R-Y: 0.7 V (p-p), 75 ohms (IN and OUT are connected with a bridge connection) (auto termination)
	EXT. SYNC (CS)	Composite sync signal input/output: 1 line, BNC x 2, 0.3 V (p-p) to 4 V (p-p), 75 ohms (bipolar tri-signal, negative pole binary signals, BB) (video signals excluded) (IN and OUT are connected with a bridge connection) (auto termination)
	HD/SD SDI (IN 1) HD/SD SDI (IN 2) HD/SD SDI (OUT)	Digital signal input (compatible with EMBEDDED AUDIO): Auto detection, 1 line, BNC x 1 Digital signal output (compatible with EMBEDDED AUDIO) 1 line (switched out), BNC x 1
Audio	AUDIO ASSIGN (IN 1) AUDIO ASSIGN (IN 2)	Analog audio signal input: 1 line, RCA x 2, 500 mV (rms), high impedance
	AUDIO ASSIGN (MONITOR OUT)	Analog audio signal output: 1 line, RCA x 2, 500 mV (rms)
External Control	MAKE/TRIGGER	RJ-45 x 1 (8-pin)
	RS-485	RJ-45 x 2 (IN/OUT) (8-pin)
	RS-232C	D-sub (9-pin) x 1

Dimensions



Option ■ TS-W24F1 (Protective screen)

20" HD Multi-Format Studio Monitor

DT-V20L3D



Achieving HD images, faithful to original signals, with less than one frame of latency

Features

- 1680x1050 pixels
- Circuits that deliver low latency of less than one frame
- Waveform monitoring with over level function
- Gold-plated HD/SD SDI terminals with embedded audio
- DVI-D with HDCP terminal
- High-performance LCD panel
- Exclusive JVC image processing technology
- Wide selection of video production functions
- Easy-to-operate front panel controls
- Rugged, adjustable stand provided
- 1:1 mode with HD (1920 x 1080 pixel array)
- Source ID input by ASCII code
- Information position selectable
- Full vertical screen mode for SD 4:3 signal
- Analog closed caption (DT-V20L3DY only)

Status Display



Input Format

VIDEO				COMPUTER	
Signal name	Video	Component/RGB	Input terminals	Signal name	Input terminals
NTSC	✓	—	—	VGA60	✓
PAL	✓	—	—	W-VGA60	✓
BW(50Hz/60Hz)	✓	—	—	SVGA60	✓
480/60i	✓	✓	✓	XGA60	✓
576/50i	✓	✓	✓	W-XGA60 (1280 x 768)	✓
480/60p	✓	✓	✓	W-XGA+60 (1440 x 900)	✓
576/50p	✓	✓	✓	UXGA60 (1600 x 1200)	✓
640 x 480/60p	—	—	—	W-LXGA60 (1920 x 1200)	✓
720/24p, 25p, 30p	—	✓	✓	1920 x 1080/60/50	✓
720/50p, 60p	—	✓	✓	1280 x 720/60/50	✓
1080/50i, 60i	—	✓	✓	W-SXGA+60 (1680 x 1050)	✓
1080/50p, 60p	—	✓	✓	U-XGA60 (1600 x 1200)	✓
1035/60i	—	✓ ¹	✓ ¹	W-LXGA60 (1920 x 1200)	✓
1080/24p, 25p, 30p	—	✓	✓		
1080/24p, 30p ¹	—	✓	✓		

¹: It is displayed by 1080/60i.

Front Panel



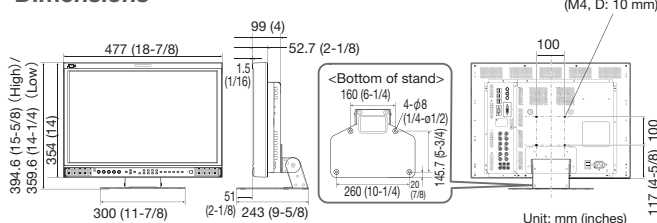
Specifications

Model		DT-V20L3D
Type	Multi-format HDTV/SDTV LCD monitor	
Screen Size	Type 20 wide format	
Aspect Ratio	16:10	
LCD Panel	20" wide, active matrix TFT	
Effective Screen Size (W x H)	433.4 x 270.9 mm (17-1/8 x 10-11/16 inches)	
Pixels	1680 x 1050 (W-SXGA+)	
Display Colors	16.7 million	
Viewing Angle	Horizontal	178°
	Vertical	178°
Brightness	470 cd/m ²	
Contrast Ratio	700: 1	
Response Time (G to G)	6 msec	
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	HD SDI: BTA S-004B, 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	-25°C to 60°C (-13°F to 140°F)
Power Requirements	AC 120/220-240 V, 50/60 Hz	
Rated Current	1.00 A (AC 120V) 0.60 A (AC 220 - 240V)	
Dimensions (WxHxD) excluding protrusions	With desktop stand	477 x 394.6 x 243 mm (18-7/8" x 15-5/8" x 9-5/8")
	Without stand	477 x 354 x 99 mm (18-7/8" x 14" x 4")
Weight	Including stand	10.6 kg (23.3 lbs.)
	Excluding stand	7.7 kg (16.9 lbs.)
Provided Accessories	AC power cord, power cord holder, screw x 2 (for power cord holder)	
Option	Protective screen/rack mount adapter	

Input/Output Terminals

Video	VIDEO 1	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)
	VIDEO 2	
	DVI-D (HDCP)	DVI-D signal input (compatible with HDCP): DVI-D connector x 1 (compatible with DDC2B)
	COMPO./RGB (G/Y, B/Pb/B-Y, R/Pr/R-Y)	Analog component signal/ analog RGB signal input/output: 1 line, BNC x 6 Video signal: G/Y: 1 V (p-p), 75 ohms (sync signal included) B/Pb/B-Y, R/Pr/R-Y: 0.7 V (p-p), 75 ohms (IN and OUT are connected with a bridge connection) (auto termination)
	EXT. SYNC (CS)	Composite sync signal input/output: 1 line, BNC x 2, 0.3 V (p-p) to 4 V (p-p), 75 ohms (bipolar tri-signal, negative pole binary signals, BB) (video signals excluded) (IN and OUT are connected with a bridge connection) (auto termination)
	HD/SD SDI (IN 1) HD/SD SDI (IN 2)	Digital signal input (compatible with EMBEDDED AUDIO): Auto detection, 1 line, BNC x 1
	HD/SD SDI (OUT)	Digital signal output (compatible with EMBEDDED AUDIO) 1 line (switched out), BNC x 1
Audio	AUDIO ASSIGN (IN 1) AUDIO ASSIGN (IN 2) AUDIO ASSIGN (MONITOR OUT)	Analog audio signal input: 1 line, RCA x 2, 500 mV (rms), high impedance Analog audio signal output: 1 line, RCA x 2, 500 mV (rms)
	MAKE/TRIGGER	RJ-45 x 1 (8-pin)
	RS-485	RJ-45 x 2 (IN/OUT) (8-pin)
External Control	RS-232C	D-sub (9-pin) x 1

Dimensions



Option ■ TS-W20F2 (Protective screen)

■ RK-C20D1 (Rack mount adapter)

INPUT TERMINALS	HD/SD SDI Gold-plated
	DVI-D
	Audio In/Out
	Speaker Stereo

CONTROLS	RS-232C
	RS-485 In/Out
	Make/trigger

FUNCTIONS	Area marker
	Safety marker
	Tally lamp
	Time code
	CRC error
	Audio level meter
	Source ID display
	1:1 mode
	I/P mode
	Waveform monitoring

INSTALLATION	Stand (Tilt & height adjustable)
	Rack mount (Option)
	VESA
OPERATION	Power AC

Rear Panel



HD/SD SDI Gold-plated	INPUT TERMINALS
DVI-D	
Audio In/Out	
Speaker Stereo	
RS-232C	CONTROLS
RS-485 In/Out	
Make/ trigger	
Area marker	FUNCTIONS
Safety marker	
Tally lamp	
Time code	
CRC error	
Audio level meter	
Source ID display	
1:1 mode	
I/P mode	
Waveform monitoring	
Stand (Tilt & height adjustable)	INSTALLATION
Rack mount (Option)	
VESA	
Carrying handle	
Power AC/DC	OPERATION

17" HD Multi-Format AC/DC LCD Monitor

DT-V17L3D



Achieving HD images, faithful to original signals, with less than one frame of latency

Features

- 1440x900 pixels
- AC/DC operation
- Circuits that deliver low latency of less than one frame
- Waveform monitoring with over level function
- Gold-plated HD/SD SDI terminals with embedded audio
- DVI-D with HDCP terminal
- High-performance LCD panel
- Exclusive JVC image processing technology
- Wide selection of video production functions
- Easy-to-operate front panel controls
- Rugged, adjustable stand provided
- 1:1 mode with HD (1920 x 1080 pixel array)
- Source ID input by ASCII code
- Information position selectable
- Full vertical screen mode for SD 4:3 signal
- Light weight (7kg with tilt stand or 5.3kg without tilt stand)
- Analog closed caption (DT-V17L3DY only)

Status Display



Input Format

VIDEO		Input terminals				COMPUTER		Input terminals	
Signal name	Video	Component/RGB	HD/SD SDI	DVI-D with HDCP (video)		Signal name	DVI-D (PC)		
NTSC	✓	—	—	—		VGA60	✓		
PAL	✓	—	—	—		W-VGA60	✓		
EW(50Hz/60Hz)	✓	—	—	—		SVGA60	✓		
480/60i	—	✓	✓	✓		XGA60	✓		
576/50i	—	✓	✓	✓		W-XGA60 (1280 x 768)	✓		
480/60p	—	✓	✓	✓		W-XGA+60 (1440 x 900)	✓		
576/50p	—	✓	✓	✓		SXGA60 (1280 x 1024)	✓		
640 x 480/60p	—	✓	✓	✓		1920 x 1080@60/50	✓		
720/24p, 25p, 30p	—	✓	✓	✓		1280 x 720@60/50	✓		
720/50p, 60p	—	✓	✓	✓		W-SXGA+60 (1680 x 1050)	✓		
1080/50i, 60i	—	✓	✓	✓		U-XGA60(1600 x 1200)	✓		
1080/50p, 60p	—	—	—	✓		W-UXGA60 (1920 x 1200)	✓		
1035/60i	—	✓ ¹⁾	✓	✓ ¹⁾					
1080/24p, 25p, 30p	—	✓	✓	✓					
1080/24psf, 30psf ¹⁾	—	✓	✓	✓					

¹⁾: It is displayed by 1080/60i.

Front Panel



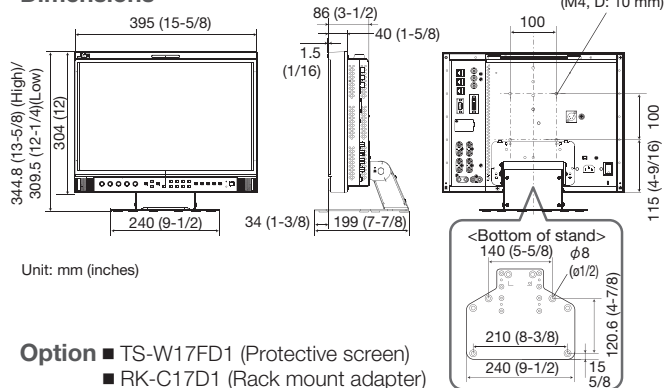
Specifications

Model		DT-V17L3D
Type		Multi-format HDTV/SDTV LCD monitor
Screen Size		Type 17 wide format
Aspect Ratio		16:10
LCD Panel		17" wide, active matrix TFT
Effective Screen Size (W x H)		367.2 x 229.5 mm (14-7/16 x 9")
Pixels		1440 x 900 (W-XGA+)
Display Colors		16.77 million
Viewing Angle	Horizontal	160°
	Vertical	140°
Brightness		400 cd/m ²
Contrast Ratio		600: 1
Horizontal/Vertical Frequency (PC signals)	Horizontal	31.469 kHz to 75.000 kHz
	Vertical	48 Hz - 65 Hz
Applicable Standard		Depending on the signal within the range of these frequencies, some signals may not be displayable, in which case, "Out of range" is shown. HD SDI: BTA S-004B, 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	-25°C to 60°C (-13°F to 140°F)
Power Requirements		AC 120/220-240 V, 50/60 Hz/DC 12-17 V
Rated Current		0.56 A (AC 120 V), 0.36 A (AC 220-240 V) 3.0 A (DC 12-17 V)
Dimensions (WxHxD) excluding protrusions)	With desktop stand	395 x 344.8 x 199 mm (15-5/8" x 13-5/8" x 7-7/8")
	Without stand	395 x 304 x 86 mm (15-5/8" x 12" x 3-1/2")
Weight	Including stand	7 kg (15.5 lbs.)
	Excluding stand	5.3 kg (11.7 lbs.)
Provided Accessories		AC power cord, power cord holder, screw x 2 (for power cord holder), Ferrite core x 1 (for external battery)
Option		Protective screen/rack mount adapter

Input/Output Terminals

Video	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)
	DVI-D (HDCP)	DVI-D signal input (compatible with HDCP): DVI-D connector x 1 (compatible with DDC2B)
	COMPO. (Y, Pb/B-Y, Pr/R-Y)	Analog component signal input/output: 1 line, BNC x 6 Video signal: Y: 1 V (p-p), 75 ohms, Pb/B-Y, Pr/R-Y: 0.7 V (p-p), 75 ohms (IN and OUT are connected with a bridge connection) (auto termination)
	HD/SD SDI (IN 1)	Digital signal input (compatible with EMBEDDED AUDIO): Auto detection, 1 line, BNC x 1
	HD/SD SDI (IN 2)	
	HD/SD SDI (OUT)	Digital signal output (compatible with EMBEDDED AUDIO) 1 line (switched out), BNC x 1
Audio	AUDIO ASSIGN	Analog audio signal input: 1 line, RCA x 2, 500 mV (rms), high impedance
	AUDIO ASSIGN (MONITOR OUT)	Analog audio signal output: 1 line, RCA x 2, 500 mV (rms)
External Control	MAKE/TRIGGER	RJ-45 x 1 (8-pin)
	RS-485	RJ-45 x 2 (IN/OUT) (8-pin)
	RS-232C	D-sub (9-pin) x 1

Dimensions



9" HD Multi-Format AC/DC LCD Monitor

DT-V9L1D



Achieving HD images, faithful to original signals, with less than one frame of latency

Features

- 800x480 pixels
- AC/DC operation
- Gold-plated HD/SD SDI terminals with embedded audio
- High-performance LCD panel
- Exclusive JVC image processing technology
- Status display in unused section of 19:9 panel
- Wide selection of video production functions
- Easy-to-operate front panel controls
- Rugged, adjustable stand provided
- Focus assist function

Status Display



*The level meters can be displayed at either the upper or lower (super impose) part of the screen. (selectable)

Input Format

VIDEO	Input terminals		
Signal name	Video/Component VBS (Composite)	Y/Pa/Pb (Analog component)	HD/SD SDI
NTSC	✓	—	—
PAL	✓	—	—
BW/50Hz/60Hz ¹⁾	✓	—	—
480/60i	—	✓	✓
576/50i	—	✓	✓
480/60p	—	✓	—
576/50p	—	✓	—
720/50p, 60p	—	✓	✓
1035/60i	—	✓ ²⁾	✓ ²⁾
1080/50i, 60i	—	✓ ²⁾	✓ ²⁾
1080/50p/120p/120p ³⁾	—	✓ ³⁾	✓ ³⁾

*1: BW/50Hz; Status display is displayed by PAL.
BW/60Hz; Status display is displayed by NTSC.
*2: Status display is displayed by 1080/60.
*3: 1080/25paf; Status display is displayed by 1080/50.
1080/30paf; Status display is displayed by 1080/60.

Front Panel



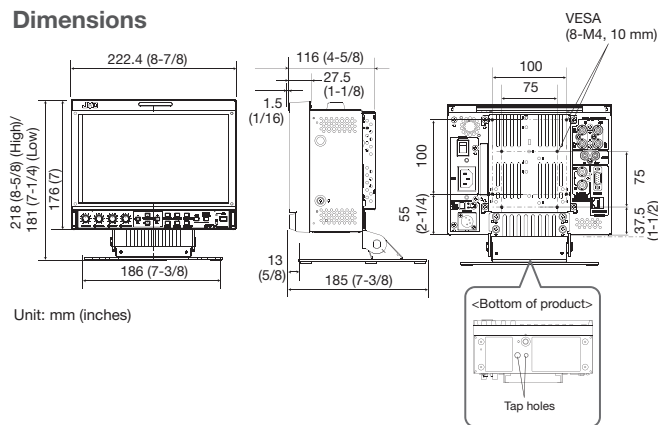
Specifications

Model	DT-V9LD	
Type	Multi-format HDTV/SDTV LCD monitor	
Screen Size	Type 9 wide format	
Aspect Ratio	15:9	
LCD Panel	9" wide, active matrix TFT	
Effective Screen Size (W x H)	195 x 117 mm (7-11/16 x 4-5/8")	
Pixels	800 x 480 (WVGA)	
Display Colors	approx. 16.2 million	
Viewing Angle	Horizontal	170°
	Vertical	170°
Brightness	350 cd/m ²	
Contrast Ratio	400: 1	
Response Time (G to G)	6 msec	
Applicable Standard	HD SDI: BTA S-004B, SMPTE292M SD SDI: ITU-R BT.656: 525/625, SMPTE259M: 525 EMBEDDED AUDIO: SMPTE299M, SMPTE272M	
Audio Output	1.0 W (Mono)	
Environmental Conditions	Operating temperature	0°C to 40°C (32°F to 104°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	0.35 A (AC 120 V)/ 1.7 A (DC 12 V)	
Dimensions (WxHxD) excluding protrusions	With desktop stand	222.4 x 181 [Low] x 202 [Low] mm (8-7/8" x 7-1/4" [Low] x 8" [Low])
	Without stand	222.4 x 176 x 116 mm 8-7/8" x 7" x 4-5/8"
Weight	Including stand	3.6 kg (7.9 lbs.)
	Excluding stand	2.7 kg (5.9 lbs)
Provided Accessories	Protective screen x1, screw x4 (for protective screen), AC power cord, power cord holder, screw x 2 (for power cord holder)	
Option	Rack mount adapter	

Input/Output Terminals

Video	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)
	COMPO. (Y, Pb/B-Y, Pr/R-Y)	Analog component signal input/output: 1 line, BNC x 6 Video signal: Y: 1 V (p-p), 75 ohms, Pb/B-Y, Pr/R-Y: 0.7 V (p-p), 75 ohms (IN and OUT are connected with a bridge connection) (auto termination)
	HD/SD SDI (IN 1)	Digital signal input (compatible with EMBEDDED AUDIO): Auto detection, 1 line, BNC x 1
	HD/SD SDI (OUT)	Digital signal output (compatible with EMBEDDED AUDIO) 1 line, BNC x 1
Audio	AUDIO ASSIGN	Analog audio signal input: 1 line, RCA x 1, 500 mV (rms), high impedance
	AUDIO ASSIGN (MONITOR OUT)	Analog audio signal output: 1 line, RCA x 1, 500 mV (rms)
External Control	MAKE/TRIGGER	RJ-45 x 1 (8-pin)
	RS-232C	D-sub (9-pin) x 1

Dimensions



Unit: mm (inches)

Option ■ RK-C9D1 (Rack mount adapter)

INPUT TERMINALS

- HD/SD SDI Gold-plated
- Audio In/Out
- Speaker mono

CONTROLS

- RS-232C
- Make/trigger

FUNCTIONS

- Area marker
- Safety marker
- Tally lamp
- Audio level meter
- Source ID display
- Focus assist
- Dynamic mode

INSTALLATION

- Stand (Tilt & height adjustable)
- Rack mount (Option)
- VESA
- Carrying handle
- Protective screen (Provided)

OPERATION

- Power AC/DC

Rear Panel





Features of the LM Series

High quality picture and JVC unique functions

■ High performance S-XGA LCD panel with various inputs

TM-series and LM-series realize JVC high quality pictures with S-XGA LCD panels. Not only the high quality pictures, TM series equipped SDI input for digital signals and LM-series equipped VGA and DVI input for PC signals besides NTSC/PAL video inputs for your professional applications. Both series can control aspect and signal inputs with Make/Trigger remote control and can adjust various picture settings with front control buttons conveniently.

■ JVC unique functions

Both series equipped color temperature settings which you can select 3 settings of color temperature depends on your various usage. Besides color temperature setting, LM series equipped "Picture modes (standard / dark enhanced / Vivid / Dynamic)" which are JVC unique functions you can best fit your monitors conveniently by direct front controls.

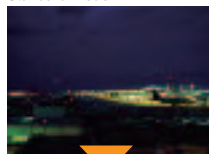
■ Color temperature setting

Three color temperature settings are provided: 9300K (High), 6500K (Low), User-Defined setting.

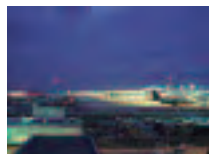
■ Picture modes (LM series)

You can select 4 modes of JVC recommended picture settings.

Standard Mode



Dark Enhanced Mode



Dark Enhanced Mode to increase visibility of underexposed images.

Standard Mode



Vivid Mode



Vivid Mode to reproduce vivid colors for images with high saturation and increased contrast.

Standard Mode



Dynamic Mode



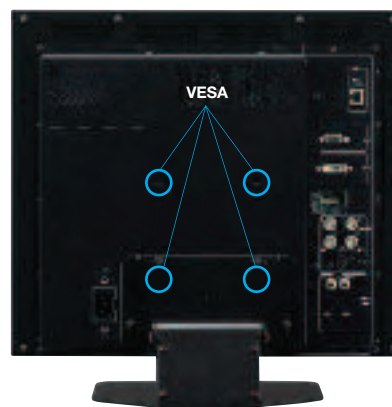
Dynamic Mode to reproduce mid-luminance images more brightly and clearly by sacrificing high luminance.

Easy installation

■ Compact square, all-in-one design

This slim, space-saving, all-in-one design enables easy installation on a shelf or in a rack.

For added convenience, a VESA standard mounting (100mm x 100mm) is provided. A rugged metal base rear cabinet with 4-hole patterns for additional screws assures secure installation and prevents monitor from being displaced or falling.



■ Robust front cabinet and metal rear cabinet

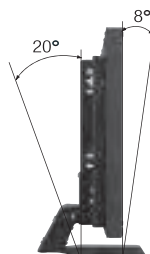
Robust and metal cabinet provides rugged durability for use in a variety of professional applications.

■ Connector guard construction

With a speaker grill and enforced edge design, protruding volume controls and switches are sheltered to prevent mis-operation and damage. On the back of the monitor, the concave design helps protect the connectors. This attractive, efficient design is both practical and safe.

■ Adjustable stand

The provided metal table top stand can be tilted up (20 degree) or down (8 degree) for easy viewing and more flexible positioning. You can also install the monitor directly on a platform – useful when you need to install in a location with a height limit (for example, on a shelf or in a rack).



As a rear support when monitor is resting directly on a flat surface

■ Built-in monaural speaker

DVI-D	INPUT TERMINALS
Audio In/Out	
Speaker Mono	
RS-485 In/Out	CONTROLS
Make/trigger	
Picture mode	FUNCTIONS
CTI/LTI	
Stand (Tilt & height adjustable)	INSTALLATION
Rack mount (Option)	
VESA	
Power AC	OPERATION

19" TFT-LCD SXGA (1280 x 1024 pixels)
17" TFT-LCD SXGA (1280 x 1024 pixels)

LM-H191

LM-H171



JVC's new LCD monitor designed for superb visual performance and precise resolution.

Professional features

- Rack mount capability
- Security Category Regulation compliant
- Remote terminal (Make/Trigger: RJ45)
- Control lock
- Direct Front Control Keys
- Front panel adjustment of Stand By/ON, input select, picture control, aspect ratio and Auto ADJ.
- Security wire slot
- 4 BNC video inputs with loop through
- Built-in power supply
- Selectable scan size (Narrow/Over)
- Power Save Mode and Gray Back Mode
- VESA 100 mount
- Quick Switching Speed

Precise picture quality

- 1300:1 High contrast (1000:1 for LM-H171)
- AV chip inside for professional use
- Good for video picture, compared with PC monitors
- CTI/LTI/Sharpness/White balance for Customising picture setting
- Color Transient Improvement (CTI): Adjustment of the contours and edges of color signal.
- Luminance Transient Improvement (LTI): Adjustment of the contours and edges of individual luminance signals.

High reliability

- High reliability and fire safety structured: Metal rear cabinet/Fire-retardant front cabinet
- Connector protection structure
- Front control design (Designed to protect control parts during installation and transfer)
- Error detection circuit in inverter
- Designed for 24/7 operation

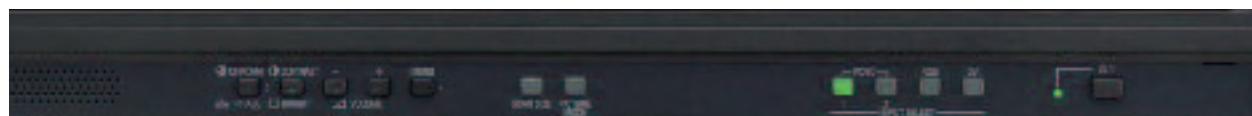
Easy installation

- High performance picture quality with new Picture Mode (Standard Mode, Dark Enhanced Mode, Vivid Mode and Dynamic Mode)
- 2 BNC video inputs with loop through
- Input terminals for a wide range of devices: Support industrial/medical cameras (Y/C input terminal)
- Compact square design for wall mounting
- Tilt & Height position adjustment
- Rugged, adjustable stand

Option

- Rack mount adaptor (RK-C179L2)

Front Panel

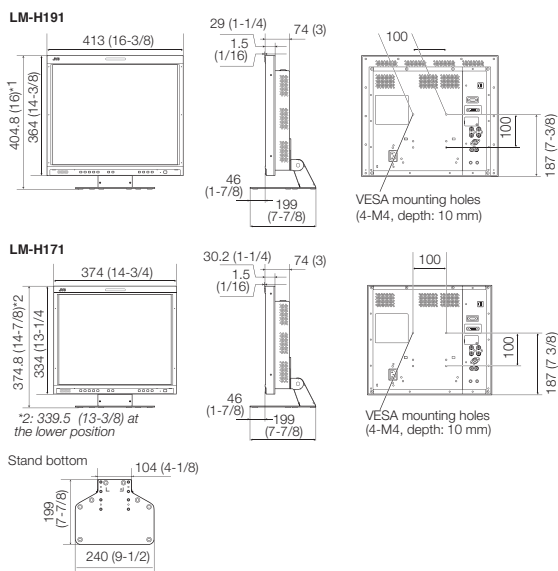


Specifications

		LM-H191	LM-H171
Model		LCD Monitor	
Type		PAL and NTSC	
Color System		5:4	
Aspect Ratio		19" active matrix TFT	
LCD panel		17" active matrix TFT	
Effective Screen Size		Width: 376.3 mm (14-13/16"), Height: 301 mm (11-13/16")	Width: 337.9 mm (13-7/16"), Height: 270.3 mm (10-3/4")
Number of Pixels Displayed		1280 x 1024 pixels (SXGA)	
PC Scanning Frequency		H: 31.5 kHz - 65 kHz V: 56 Hz - 75 Hz Some signals within this frequency range may not be displayed depending on the computer ("Out of range" appears).	
Display Colors	Horizontal	16.77 million	
	Vertical	178°	160°
Viewing Angle		178°	160°
Brightness		300 cd/m²	
Contrast Ratio		1300:1	1000:1
Response Time		8 msec	5 msec
Input/Output Terminals	Video	Composite video: 2 line, BNC connector x 4, 1 V(p-p), 75Ω The input (IN) and output (OUT) terminals are bridge-connected. (Auto termination)	
	Video 1		
	Video 2		
	S-Video	Y/C: 1 line (Priority input VIDEO 1)	
	RGB	1 line	
	DVI-D	1 line (D-sub 15-pin)	
	Audio	Analog audio: 2 line mono, RCA x 2	
	AUDIO 1		
	AUDIO 2	Analog audio: 2 line (Stereo mini jack) x 2	
	AUDIO (DVI-D) AUDIO (RGB)		
Support Format	Video	Composite video: NTSC, PAL, Monochrome (50 Hz/60 Hz)	
	PC	DVI - D, Analog RGB (D-sub 15-pin)/VGA: 640 x 480 (60 Hz)*, 640 x 576 (50 Hz)/SVGA: 800 x 600* (56 Hz)*, 800 x 600 (60 Hz)/XGA: 1024 x 768 (60 Hz), 1024 x 768* (70 Hz)*/WXGA: 1280 x 768 (60 Hz)/SXGA: 1280 x 1024 (60 Hz)/US TEXT: 720 x 400* (70 Hz)*	
Remote Control		Make Trigger (RJ-45)	
Audio Output		Internal speaker: 0.8 W (monaural)	
Stand		Tilt (Up 20°/Down 8°), Height (Adjustable 2 steps)	
Operating temperature		5°C to 35°C (41°F to 95°F)	
Storage temperature		-15°C to 60°C (5°F to 140°F)	
Power Requirements		AC 120V, 220-240V, 50/60Hz	
Dimensions (W x H x D) excluding protrusions	With stand	413 x 404.8 x 199 mm (16-3/8" x 16" x 7-7/8")	374 x 374.8 x 199 mm (14-3/4" x 14-7/8" x 7-7/8")
	Without stand	413 x 364 x 74 mm (16-3/8" x 14-3/8" x 3")	374 x 334 x 74 mm (14-3/4" x 13-1/4" x 3")
Weight	Including stand	8.2 kg (18 lbs.)	7.5 kg (16.5 lbs.)
	Excluding stand	6.4 kg (14.1 lbs.)	5.8 kg (12.8 lbs.)
Rack Mount (Option)		9U	8U
Provided Accessories		AC Power Cord	

Dimensions

Unit: mm (inches)



42"/47"/52"

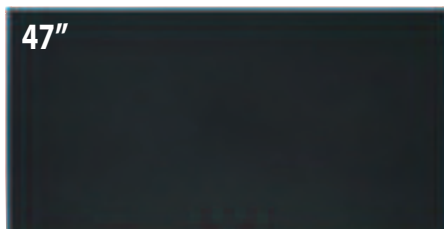
1920 x 1080 Full HD LCD Monitor

GM-F420S GM-F470S GM-F520S

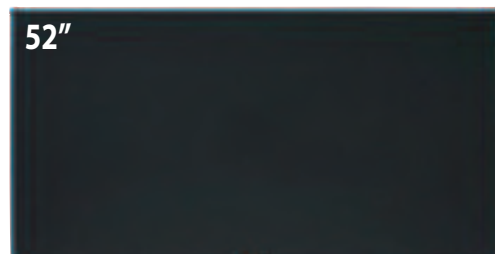
***Superior full HD picture performance,
stylish super-thin bezel design, with high reliability***



GM-F420S



GM-F470S



GM-F520S

■ Features

Extended Line up of 3 sizes for varying applications

- 3 sizes of 42/47/52 - inches

Excellent Picture Quality & Performance

- Native Full HD 1920x1080 pixels resolution
- Panel brightness of 700 cd/m² highly visible even under outdoor ambient lighting
- Wide viewing angle, up to 178 degree (vertical/horizontal)

Functional & Stylish Design

- Ultra-slim bezel of 15mm width (GM-F420S/GM-F470S) and 17mm width (GM-F520S) permits Video Wall application
- Also vertically positionable

High Reliability

- Continuous operations 24 hours/7 Days a week
- Full metal cabinet using light-weight aluminum

Comprehensive System Connectivity & Networking

- "LAN Remote" allows off-site control & monitoring via network PC
- Professional connectivity; RS-232C, MAKE/TRIGGER, RS-485
- Flexible installation (multiple mounting points)
- When detecting a person, "Motion sensor" feature automatically switches functions for timely information display
- A/C outlet provides power for additional device JVC recommend (eg. PC)
- Rear space for integrating system unit (eg. PC; set-top box)
- Multi-screen, Video Wall use (1x2 to 5, 2 to 5x1, 2x2 upto 5x5 Tile Matrix capable)
- VESA wall mount compatible

■ Motion sensor

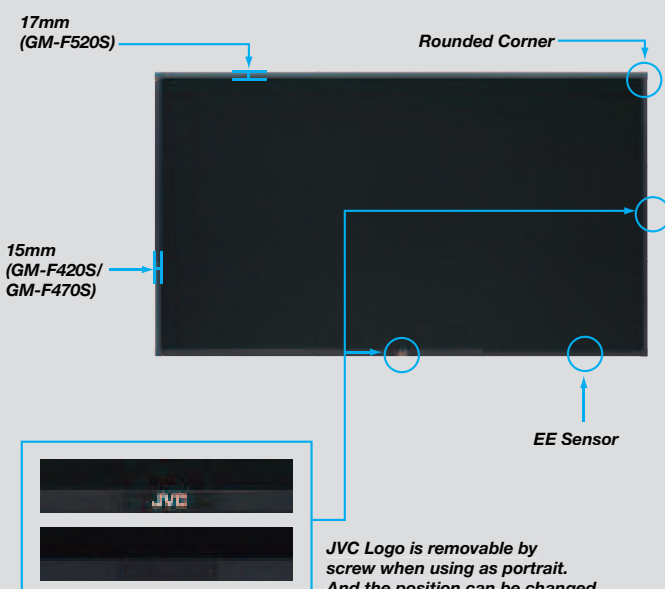


The "Motion sensor", a JVC Original Innovation designed specifically for Digital Signage and Point-of-Sales applications, triggers pre-programmed functions to display timely information such as promotional messages to the viewers.

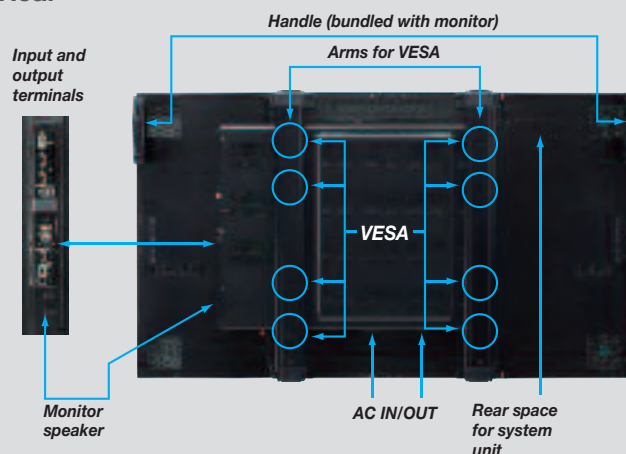
- Detectable distance: up to 5m (max.)
- Detectable angle: 80 degree horizontally and 80 degree vertically
- Continuous detection until the viewer stops moving or steps out of range.
- The "Motion sensor" can be setup on the top or bottom of the LCD.

■ Mechanical Feature

Front



Rear



■ Specifications

Model		GM-F420S	GM-F470S	GM-F520S
Type		42 inch LCD monitor	47 inch LCD monitor	52 inch LCD monitor
LCD Panel		TFT Active Matrix		
Screen Size		42 inch	47 inch	52 inch
Aspect Ratio		16:9		
Pixel Number		1920 x 1080		
Brightness		700 cd/m ²		
Viewing Angle		89/89/89/89		
Contrast Ratio		1000:1		2000:1
Response Time (G to G)		9 msec		8 msec
Display color		1.07 billion (10-bit)		16.7 million (8-bit)
Signal Format	Video	NTSC / PAL / SECAM / PAL-M / PAL-N		
	RGB	VGA-FHD (1920 x 1080)		
	DVI (HDCP)	VGA-FHD (1920 x 1080) 60 Hz		
Dimensions (W x H x D)		963.6 x 556.6 x 151.2 mm (38 x 22 x 6 inches)	1075.2 x 620.4 x 151.2mm (42-3/8 x 24-1/2 x 6 inches)	1199.2 x 695.2 x 161.5 mm (47-1/4 x 27-3/8 x 6-3/8 inches)
Bezel		15 mm		17 mm
Operating Temperature		0°C to 40°C (32°F to 104°F)*		
Storage Temperature		-20°C to 60°C (-4°F to 140°F)		
Power Requirements		AC 120 / 220 - 240 V		
Weight		24.9 Kg (54.8 lbs)	29.8 Kg (65.6 lbs)	40 Kg (88 lbs)
Frequency		50 Hz / 60 Hz		
Speaker		1.7 W + 1.7 W		
Ext. Speaker Connector		2.3W + 2.3W		
Accessories		AC power cord, Power cord holder, Remote control, Motion sensor, Stand		

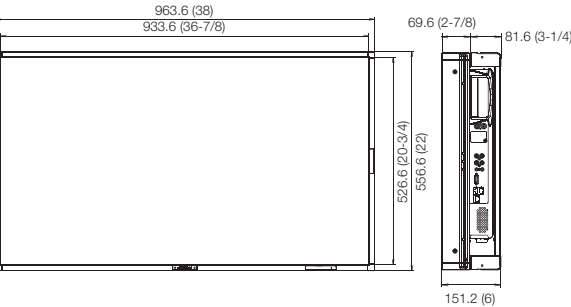
Input/Output Terminals

Video		BNC x 1, with bridge out
PC	RGB input	D-sub (15-pin) x 1 (DDC2B)
	RGB output	D-sub (15-pin) x 1 (Active output)
	DVI input	DVI-D x 1 (DDC2B)
Audio	Audio 1 * Selectable for each Video and PC input	RCA x 2 (L / R), 500 mV (rms) with bridge out
	Audio 2 * Selectable for each Video and PC input	Stereo Mini Jack x 1, 500mV (rms) with bridge out
	Audio out	Speaker output terminal (L / R)
	RS-232C	D-sub (9-pin) x 1
External Control	RS-485 / MAKE / TRIGGER IN	RJ-45 x 1 (8-pin)
	RS-485/IR OUT	RJ-45 x 1 (8-pin)
	LAN Remote	RJ-45 x 1 (8-pin)

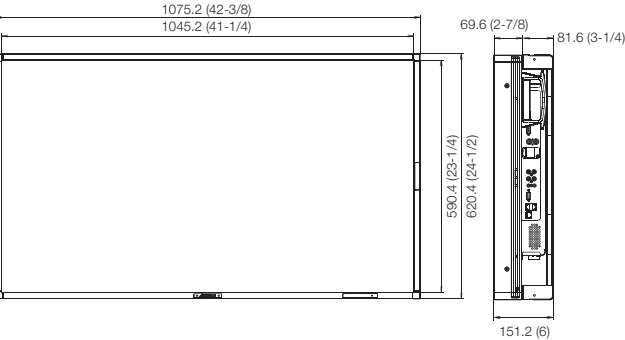
*GM-F520S is tentative. E & O E. Design and specifications subject to change without notice.

■ Dimensions

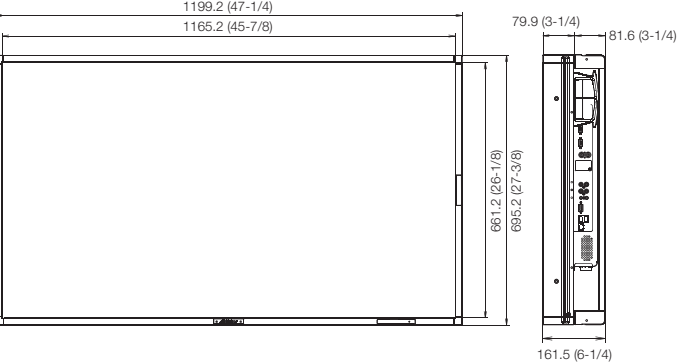
GM-F420S



GM-F470S



GM-F520S



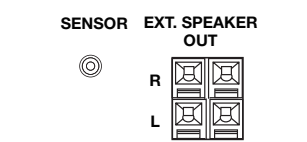
■ Input/Output Terminal 1



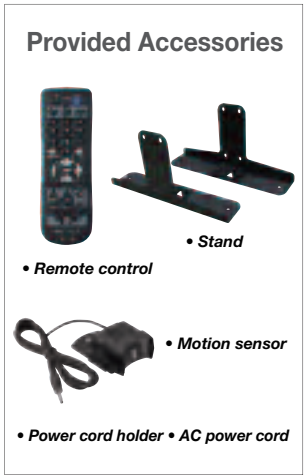
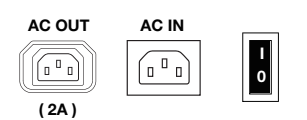
■ Control Terminal



■ Input/Output Terminal 2



■ Input/Output Terminal 3



All pictures are simulated.

INPUT TERMINALS	DVI-D
	Audio In/Out
	Speaker Stereo
CONTROLS	RS-232C
	LAN Remote
	Remote Control
	RS-485 In/Out
FUNCTIONS	Make/Trigger
	Native HD 1920 x 1080
	High Brightness 700 cd/m ²
	Motion Sensor
	PIP/PBP
	24-hour 7 days operation
	Picture mode
	CTI/LTI
INSTALLATION	Slim bezel 15 mm (for GM-F420S/F470S) 17 mm (for GM-F520S)
	VESA
OPERATION	Power AC



RAK-2024LCD
Rack mount adaptor
For DT-V20L3D
(The DT-V20L3D is designed to fit on the optional RK-C20D1, at a height of 9U.)



RAK-17LCD
Rack mount adaptor
For DT-V17L3D
(The DT-V17L3D can be installed in a standard EIA rack with a height of 7U.)



RAK-92LCD
Rack mount adaptor
For DT-V9L1D
(The DT-V9L1D, two units can be rack mounted side by side within a standard EIA rack with a rack height of 4U.)

INPUT TERMINALS	HD/SD SDI	DT-V24/V20/V17 has 2 multi-format HD/SDI inputs (HD/SD automatic switching). DT-V9 is equipped with one input which accepts various HD signals. The SDI terminal is gold-plated to prevent corrosion and signal loss, and also works with embedded audio.
	DVI-D	Connects a computer monitor (DVD-I) output terminal. HDCP stands for High-Bandwidth Digital Content Protection. This technology is copyright protected.
	Audio	Equipped with Audio Input/Output terminal.
	Speaker	Built-in mono/stereo internal speaker.
CONTROLS	RS-232C	This equipment can be controlled from your PC via an RS-232C terminal (D-SUB 9 pin).
	RS-485	This equipment can be controlled from your PC via an RS-485 terminal with a straight LAN cable.
	Make/trigger	The Make/Trigger terminal acts as an remote terminal, which acts according to the selected control mode. Make mode: Controls functions with short-circuiting pins (short with GND) or a disconnecting circuit (terminal open). Trigger mode: Controls functions by instantaneously inputting pulse signals to the pins.
	LAN remote	Equipped with a remote LAN enabling menu control via a network computer, allowing the state of the monitor to be checked, turned on or off, and remote control of color calibration and other functions in the TV menu. If trouble occurs, the monitor will send an error code by e-mail.
FUNCTIONS	Area marker	Area marker aspect ratio and display style are selectable.
	Safety marker	The Safety Area is an area which is displayed for certain on the viewer's TV screen, and Safety Marker is displayed on the producer's monitor screen. The display can be controlled using this equipment or an external control.
	Tally lamp	Equipped with a Tally Lamp. In addition to Tally functions, input signals can be identified with lighting colors in green and red.
	Time code	Displays the time code superimposed on SDI signals (00:00:00:00 Hours Minutes Seconds Frames).
	CRC error	Determines display or non-display of CRC errors when Cyclic Redundancy Check (CRC) HD SDI signals are input. If an error occurs, a red square is displayed.
	Audio level meter	Checks the state of signals input from the embedded audio level meter, and sets color and brightness values, and the minimum input level.
	Source ID display	An arbitrary name for the input image source (10 letters) can be registered with the character set function (RS-232C method is also applicable), and display or non-display of the name can be specified.
	1:1 mode	Displays an image with the same resolution (same magnification) as that of the input signal.
	I/P mode	IP conversion mode can be selected from NORMAL (frame complement), FIELD (field complement) and CINEMA for films (24p).
	Waveform monitoring	A waveform monitor with high display quality is equipped to mainly check the level of luminance (Y) signals. If a certain set value is exceeded, the waveform turns red with the level-exceeded function. The gain control function compensates cable gain attenuation in analog mode, and the auto-off function prevents an image from being burned onto the LCD.
	Picture mode	Four new picture modes have been adopted; Standard; Dark enhanced mode for more visibility of underexposed images; Vivid mode with higher saturation and contrast; and Dynamic mode with brighter and more vibrant images based on Vivid mode.
	CTI/LTI	CTI: COLOR TRANGENT IMPROVEMENT Adjusts the clarity of the outlines of color signals, and increases color border contrast. LTI: LUMINANCE TRANGENT IMPROVEMENT Adjusts the clarity of the outlines of color signals, and increases color border contrast.
	Native HD 1920 x 1080	Uses 1920x1080 full Hi-Vision LCD to provide clear details.
	Motion Sensor	An attached human detection sensor enables switching of monitor functions.
	PIP/PBP	PIP (PICTURE IN PICTURE) Displays a small sub-screen in the main screen. PBP (PICTURE BY PICTURE) Dual display and screen size are selectable.
	High Brightness	Provides clear images even in bright situations, making 700CD high brightness visible even from a distance.
	24-hour 7 days operation	Uses an advanced electrolytic condenser allowing 24-hour operation. The robust full-metal cabinet supports long-term operation with high reliability.
INSTALLATION	Stand (Tilt & height adjustable)	The attached metal stand can be tilted up and down. It can be also directly grounded by turning it at its maximum height.
	Rack mount	Mounting is available according to the application as described above.
	VESA	All items are equipped with a screw hole in compliance with the Vesa Standard.
	Carrying handle	Comes with a handle to enable easier portability — helpful in outdoor locations and studios.
OPERATION	Slim bezel	The slim frame never blocks images and saves space. The design is suitable for combinations of multiple displays.
	Power	Green indicates the monitor is on, orange indicates standby, and flickering orange indicates energy-saving mode.

NOTES

[illegible]



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