JVC
PROFESSIONAL

19" MULTI-FORMAT DTV MONITOR
DT-V1900CG

Natural Flat-Screen, High-Resolution DTV Monitor
with User-Selectable Interface Cards

- **Multi-format capability DTV/SDTV**
- **Big-screen design in compact package**
- **Natural Flat CRT with 900 TV lines resolution**
- **HV separation & IK feedback for picture stability**
- **Rush-current Delay function**
- **Choice of up to three Input Cards from four avialable: HD SDI, SDI, Analog Component/RGB, Analog Composite**
- **Area Marker settings**
- **Remote control of Tally Lamp**
- **Rotation function**
- **Sound muting function**

The innovative 19-inch DT-V1900CG monitor features a natural flat-screen CRT, which delivers vivid high definition images and 900 lines of horizontal resolution. Designed and engineered to provide what professionals really want from a top-quality digital HDTV monitor, the DT-V1900CG comes packed with powerful features. It offers access to rapidly emerging technologies, such as the revolutionary 1080/24psF cinema format. High performance, global features, such as the auto-sensing of the video standard and of the mains voltage, are further enhanced by the flexible and cost-effective system of user-selectable input cards. There are three slots available and four cards to choose from: HD SDI, SDI, Analog Component/RGB and Analog Composite video. The cards, being of the plug-and-play type, make for a professional studio monitor that is easily and quickly upgraded in the field, as and when studio requirements change. All of this comes in a compact and rack-mountable package which is striking in its elegance.

NTSC
PAL
480i
576i
480p
576p
1080i
1080i
1080/24psF
720p

JVC

■ **DTV Format Compatibility**
Compatible with all major DTV formats (480i, 576i, 480p, 567p, 1080i, and 720p), JVC's DT-V1900CG also accepts signals in cutting-edge 1080/24psF cinema mode, making it ideal for tele-producers, broadcasters, and video professionals processing movie stock captured at 24 frames-per-second.

■ **Big-Screen Display in Rugged, Compact Cabinet**
JVC's stylish DT-V1900CG comes in a tough metal cabinet. The monitor features a 16:9 aspect 19" display, with an effective viewing area which is 40% larger than a conventional 17" monitor.

■ **Natural Flat-Screen CRT**
The DT-V1900CG delivers 900 TV lines of horizontal resolution on a Natural Flat-screen CRT with both high contrast and high brightness. That translates into accurately rendered high-definition images which reveal the smallest detail with astonishing clarity. In turn, this also means reduced eye strain when viewing the display closely for long periods, such as when performing specialist editing tasks.

■ **High-Voltage Separation Circuit**
To achieve professional-level image stability on screen, the DT-V1900CG employs a high-voltage/deflection separation circuit.

■ **White Balance Stability**
The natural flat-screen CRT of the DT-V1900CG employs an IK feedback system which provides exceptional color stability over a very long period of time.

■ **16:9 Bezel**
The DT-V1900CG comes with a 16:9 bezel as a standard accessory, which can be attached when using the display as a HDTV monitor.

■ **Front Panel Controls featuring Advanced Ergonomics**
The front panel controls are ergonomically designed and rotate smoothly. They allow fast and simple adjustment of the key image parameters of brightness.

■ **Extended Multi-Standard Compatibility with Optional Input Cards (Plug & Play)**
JVC's DT-V1900CG provides full multi-format compatibility. Besides the signals of all major digital formats, the monitor will automatically detect and accept an incoming PAL or NTSC signal. Users can customize the DT-V1900CG by inserting optional input cards into the three input slots provided. There are four input cards available: HD SDI, SDI Analog Component/RGB, and Analog Composite video, which together cover virtually every possible input combination. Each card is automatically recognized when inserted into an input slot.

■ **Wide Selection of Control Functions**
Underscan, Aspect Ratio, Color Off, Switchable Area Marker are just some of the control functions which lend this DTV monitor for use in professional TV production.

■ **UL and CE Regulatory Approval**
DT-V1900CG has approval under both UL (USA) and CE (Europe) regulatory standards.

■ **Rush-Current Delay**
When activated, JVC's special Rush-Current Delay function reduces the load on the studio's mains power supply when a number of units are powered up simultaneously. The operator can set delay times for individual monitors in a range from 0 to 3 seconds.

■ **Variable Aspect Ratio and Area Markings**
Whilst the DT-V1900CG display mode is selectable between 16:9 and 4:3 image display, there is a further choice of Area Markings when in 16:9 mode, selectable between 16:9, 14:9, 13:9, 4:3 or none. Independent of the Area Markings function, it is possible to switch in a center marker.

■ **Remote Control Capabilities**
The DT-V1900CG has prioritized methods of remote control through both RS-232C (9-pin D-sub) and Contact Closure (15-pin D-sub), covering Input Selection A to F, Tally Lamp, Color Off, Area Marker, Aspect Ratio, Underscan and Status Display.

■ **Selectable (Green/Red) Color of Tally Lamp**
The color, which is displayed when the tally lamp is on, can be set either red or green.

■ **Embedded Audio Compatibility**
The monitor is compatible with Embedded Audio when the HD SDI input card option (version IF-C12HSDG) is installed. Accordingly the monitor can then receive 8 digital audio channels, besides the digital video.

■ **Power Cord Holder for Preventing Accidental Disconnection**
The provided Power Cord Holder prevents accidental disconnection of the AC power cord from the AC inlet.

■ **External Control**
DT-V1900CG has a two external control terminaals. One is the MAKE/TRIGGER terminal, which allows the monitor to be controlled by the MAKE (make contact) or TRG (trigger contact) method select in the function setting. The other terminal used for remote control is the RS-232C terminal. This allows the monitor to be controlled by a PC via serial communication.
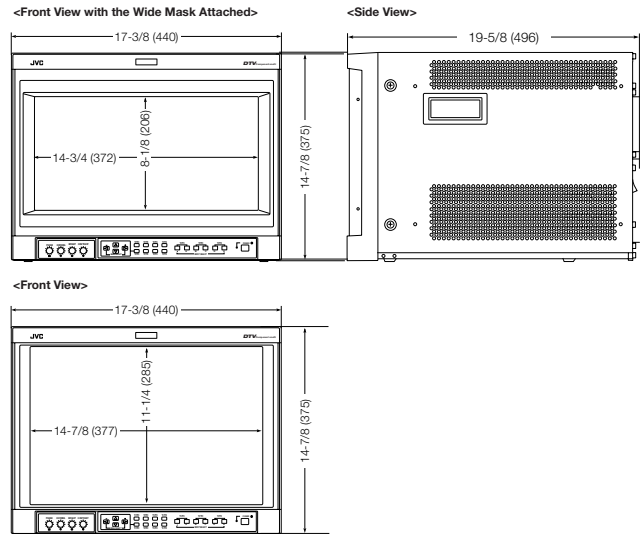
Specifications

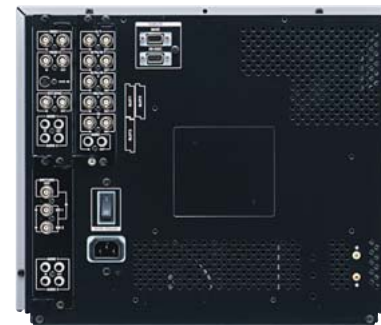|	
Type	Multi-Format Color Video Monitor
Color Systems	NTSC, PAL, 480i, 576i, 480p, 576p, 1080i, 1080/24psF, 720p
CRT	19" in-line gun, AG pitch 0.25 mm, Natural Flat CRT
Scanning Frequency	(H) 15.625/15.734/28.125/31.5/33.75/45kHz (V) 48 (24psF)/50/59.94/60Hz
Horizontal Resolution	more than 900 TV lines
Power Requirement	120V/230V AC, 50Hz/60Hz
Power Consumption	120V AC, 1.8A (MAX. 2.1A) When input card is inserted. 230V AC, 1.0A (MAX. 1.2A) When input card is inserted.
Color Temperature	6,500°K/9,300°K selectable
Video Input	3 slots for optional input cards
Audio Input	Video input card incorporate audio input
Audio Speaker	8cm (3-3/16") round
Remote Terminals	RS-232C: 9-pin D-sub Contact Closure: 15-pin D-sub
Dimensions (W x H x D)	17-3/8" x 14-7/8" x 19-5/8" 440 mm x 375 mm x 496 mm
Weight	64.7lbs. (29.4kg)

Optional Input Cards		
IF-C01COMG		Component Video Input Card
	Terminal	BNC x 6, Y/R-Y/B-Y or Y/P$_B$/P$_R$ or RGB, BNC x 4, external sync bridged connection possible
	Audio	RCA pin x 2, bridged connection possible
IF-C01PNG		Composite Video Input Card
	Terminal	VBS 2 lines, BNC x 4, Y/C 4-pin x 1, external sync 1ch BNC x 2, bridged connection possible, except Y/C
	Audio	RCA pin x 4, bridged connection possible
IF-C01SDG		SDI Input Card D1 Serial Digital (SMPTE 259M) compatible, Digital Input: 2 lines, BNC x 2 Digital Output (SWITCHED OUT): 1 line, BNC x 1
	Audio	2ch for analog audio, RCA pin x 4, bridged connection possible
IF-C12HSDG		HD SDI Input Card HD serial component digital, BTAS-004B, SMPTE292M (Digital Interface Standard) SMPTE299M (AES/EBU EMBEDDED AUDIO) Digital Input: 2 lines, BNC x 2 Digital Output: 2 lines, BNC x 2

Dimensions

Unit: inches (mm)

<Front View with the Wide Mask Attached>

17-3/8 (440)
14-3/4 (372)
8-1/8 (206)
14-7/8 (375)

<Side View>

19-5/8 (496)
14-7/8 (375)

<Front View>

17-3/8 (440)
14-7/8 (377)
11-1/4 (285)
14-7/8 (375)

Front and Rear Controls

This photograph shows the rear panel with three of the four optional interface cards installed in the three available card slots. In the top left corner of the shot can be seen the Analog Composite card (IF-C01PNG) on the outside and the Analo Component/RGB card (IF-C01COMG) to its right. In the bottom left corner can be seen the SDI card (IF-C01SDG).

Optional Cards

■ **IF-C01COMG**
Analog Component/ RGB Card

■ **IF-C01PNG**
Analog Composite Card

■ **IF-C01SDG**
SDI Card

■ **IF-C12HSDG**
HD-SDI Card

Rack Mount Adapter

RK-C1900E
EIA Rack Mount Adapter

Design and specifications subject to change without notice.