

JVC[®]
PROFESSIONAL

16-INCH COLOR MONITOR
TM-1650SDU

Built-In SDI and Multi-Application
Color Monitor

9-INCH COLOR MONITOR
TM-950DU

Built-In SDI Monitor for Studio
Application



- TM-1650SDU**
- Serial Digital Component Input
 - 550 Lines of Horizontal Resolution
 - 16:9/4:3 Selectable Aspect Ratio
 - On-Screen Menu
 - Wired Remote Control
 - Big Screen, Small Cabinet Design
 - Component/RGB Input Terminals
 - Under Scan, Blue Check
 - NTSC/PAL Compatible

- TM-950DU**
- Serial Digital Component Input
 - NTSC/PAL Compatible
 - 16:9 Display Capability
 - Tally Lamp
 - Tally/Remote
 - Rugged Metal Cabinet
 - Underscan and Pulse Cross
 - Rack Mountable

Packing the Power Demanded by Today's

16-INCH SDI COLOR MONITOR

TM-1650SDU

The TM-1650SDU delivers the flexibility and the practicality needed in today's fast-moving broadcast, production and editing environments. Flexibility is further enhanced by a Serial Digital Interface (SDI), which complements comprehensive input terminals for analog signals. With a big 16-inch screen in a compact body, the TM-1650SDU takes up little space, yet provides the picture quality of a top-of-the-line monitor. Packed with powerful features, the TM-1650SDU has a Flat Square CRT with 550 lines of horizontal resolution. Its intuitive on-screen menu allows quick and simple adjustment of a wide range of settings including Blue Check and Under Scan.

■ SDI Direct Input

Compatible to SMPTE 259M standard serial digital component signal.

■ 16-inch Monitor Delivers Crisp Color Pictures

The TM-1650SDU features JVC's Flat Square CRT with precision in-line guns and a stripe pitch of 0.42 mm. Delivering 550 lines of horizontal resolution, the TM-1650SDU provides crisp, accurately rendered color pictures. These minimize viewer fatigue, and open up a wide range of professional applications, whether in the broadcast studio or editing suite.

■ Multi-Standard Compatibility

The outstanding flexibility of the TM-1650SDU is further enhanced by full multi-standard compatibility. Not only does the TM-1650SDU display both NTSC and PAL signals, it also features an auto-select switch — When activated the function identifies the input signal and switches mode without any action required of the user. Manual selection is also available which is very useful for monitoring noisy signals from an off-air or satellite source.

■ Compact, Space-Saving Design

Packaged in a rugged metal cabinet, the elegant TM-1650SDU has an innovative design which provides a monitor that is the same height as JVC's compact

14-inch model and most manufacturer's 13-inch monitor, yet is just 1.2-inch wider. That translates into space savings together with the big picture that comes with a 16-inch, high-resolution display.

■ User-Selectable Aspect Ratio

The TM-1650SDU offers users a choice of aspect ratios — 4:3 or 16:9. To switch from one to the other, simply input your selection on the on-screen menu. The TM-1650SDU then makes the necessary adjustments.

■ Comprehensive Inputs

The TM-1650SDU comes with all the input options required for professional applications. As well as SDI input, Y/C input (4-pin DIN) with bridged output, and two composite inputs (2-channel BNC), each with a bridge output, the TM-1650SDU has RGB/Component inputs with an on-screen switching capability.

■ Menu-Driven On-Screen Programming

Call up the on-screen menu and the user-friendly screen guides you through parameter adjustments. It couldn't be easier, whether you choose the standard default set-up or customize the settings for Under Scan, Aspect Ratio, Color Temperature and Blue

SDI

Serial Digital Interface



Check. Contrast, Brightness Chroma, and Phase can be quickly adjusted using the controls on the front panel, with levels displayed on the monitor.

■ Built-in Loudspeaker

Users can monitor sound with the compact, built-in 3-3/16-inch (8cm) loudspeaker, which delivers an output of 1 Watt.

■ Wired Remote Control Connector

The TM-1650SDU is provided with a remote control connector (RCA phono), for selecting input channel, as well as aspect ratio.

Broadcast and Production Professionals



9-INCH SDI COLOR MONITOR

TM-950DU

The 9-inch TM-950DU is the monitor to rely on. Ruggedly built and feature-rich, the TM-950DU is engineered for professionals working in the demanding broadcast, production and editing sectors. It offers multi-format NTSC and PAL compatibility and has a switchable aspect ratio "4:3 and 16:9", two video inputs, Serial Digital Interface (SDI), and built-in loudspeaker. Rack mountable and easy to handle, thanks to an innovative, space-saving design, the TM-950DU offers a unique mix of powerful features for users looking for flexible solutions.



■ SDI Direct Input

Compatible to SMPTE 259M standard serial digital component signal.

■ NTSC/PAL Compatibility

The TM-950DU is multi-format capable accepting Composite from NTSC or PAL sources.

■ Comb Filter

A Comb Filter circuit is provided for optimum chrominance and luminance separation. The Comb Filter prevents cross color and dot crawl interference of NTSC signals.

■ Tally Lamp

A conveniently located, easy-to-see tally lamp is located on the front of the monitor.

■ Remote Connector

An 8 pin female DIN connector located on the rear panel allows remote on/off control of several functions, including Tally, by simply grounding the assigned pin.

■ Display Capability

Scanning can be changed between 4:3 and 16:9 aspect ratios by simply pushing the appropriate front panel switch.

■ Underscan Mode

Underscan mode can be selected by pushing the appropriate switch on the front panel. It allows viewing of the entire active picture.

■ Pulse Cross Mode

The Pulse Cross mode allows visualization and monitoring of vertical and horizontal blanking period. (Only composite video inputs)

■ Blue Check Mode

Hue and Saturation color level adjustments as well as noise level checks are made easy when the Blue Check mode is selected on the front panel.

■ Color Off Control

White balance settings can be verified by using the Color Off switch.

■ External Sync

Independent External Sync input with loop through is provided. (Only composite video inputs)

■ AFC Mode Switch

The AFC time constant can be decreased to allow viewing of images that have VTR generated jitter. A rear panel located switch is provided.

■ Built-in Speaker

A 3.5 inch side mount Speaker powered by an internal 1 Watt amplifier is provided for audio monitoring.

■ Two Audio Inputs

Two RCA connectors with bridged output are provided.

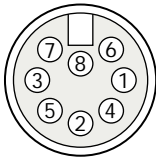
■ Rack Mounting

Rack mounting of the TM-950DU is possible individually or side by side in any EIA 19" rack.

Specifications

	TM-1650SDU	TM-950DU
Type	Color Video Monitor	
Color System	NTSC/PAL SMPTE 259M serial digital component	
Scanning Frequency	H: 15.734 kHz (NTSC)/15.625 kHz (PAL) V: 50/60 Hz	
CRT	16" (diagonally measured), Stripe pitch 0.42 mm	9" (diagonally measured), Stripe pitch 0.50 mm
Horizontal Resolution	more than 550 TV lines	more than 280 TV lines
Power Requirement	120 V AC, 50/60 Hz	
Power Consumption	1.3A	0.83A
Color Temperature	6,500K/9,300K (selectable)	6,500K
Input Terminals		
Input A	Composite 1.0 V (p-p), 75 ohms, negative sync., auto-termination, BNC x2, bridged-output possible	
Input B	Composite 1.0 V (p-p), 75 ohms, negative sync., auto-termination, BNC x2, bridged-output possible	
	Y/C Y: 1.0 V (p-p), 75 ohms, negative sync. C: 0.286 V (p-p), 75 ohms (NTSC) 0.3 V (p-p), 75 ohms (PAL) auto-termination, S 4-pin x2, bridged-output possible	
	SDI	SMPTE 259M BNC x2, active through-out mechanical sw. composite-SDI
RGB/ Component/ SDI	RGB R: 0.7 V (p-p), 75 ohms G: 0.7 V (p-p), 75 ohms B: 0.7 V (p-p), 75 ohms RGB composite sync., 0.3-4 V (p-p), 75 ohms, negative sync., BNC x4	
	Component Y: 1.0 V (p-p), 75 ohms, negative sync. R-Y: 0.7 V (p-p), 75 ohms B-Y: 0.7 V (p-p), 75 ohms BNC x3, common to RGB input	
	SDI SMPTE 259M BNC x2, active through-out OSD menu select RGB/ Component/SDI	
Audio Terminals	RCA pin x6 for inputs A, B and RGB/Component/SDI, bridged- output possible	RCA pin x4 for inputs A and B, bridged-output possible
Audio Speaker	8cm round x1, 1W output	
Weight	40 lbs./17.8kg	17.5 lbs./7.9kg

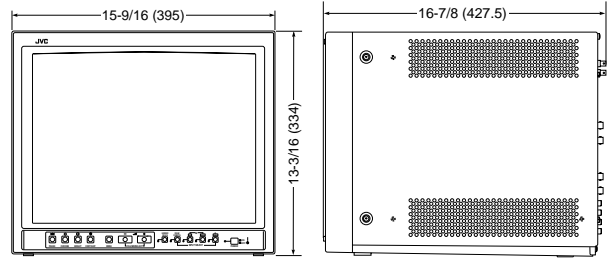
Tally/Remote Connectors (TM-950DU)



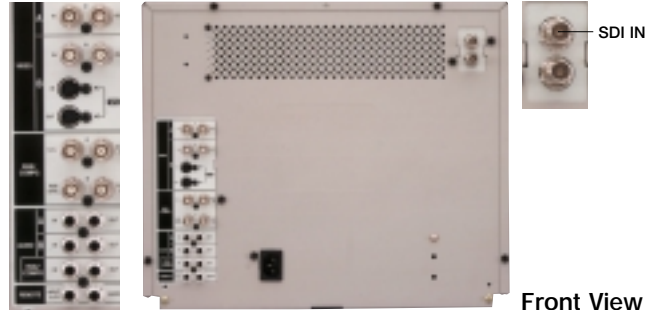
Pin No.	Signal
1	Tally Lamp On/Off
2	Input Select A/B
3	Under Scan On/Off
4	External Sync On/Off
5	Aspect Ratio 4:3/16:9
6	Pulse Cross On/Off
7	Color Off On/Off
8	GND

TM-1650SDU Dimensions

Unit: inches (mm)



Rear View

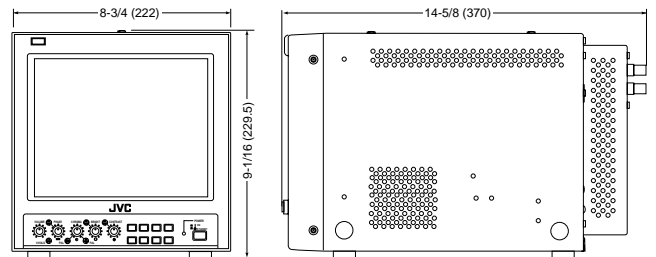


Front View

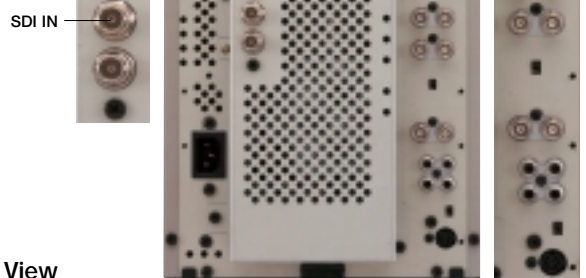


TM-950DU Dimensions

Unit: inches (mm)



Rear View



Front View



E. & O.E. Design and specifications subject to change without notice.

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