

# DTV Reference Monitor

## DT-V2000SU 20"

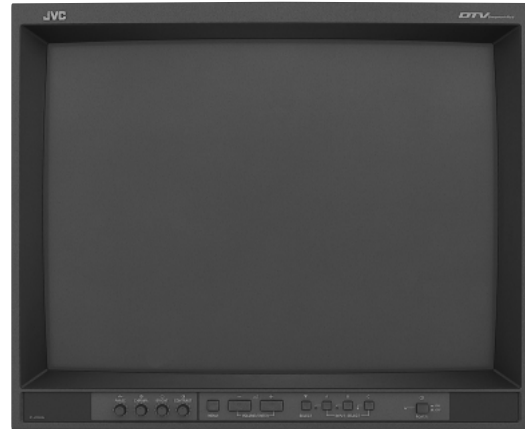
46

- Multi-format capability: 1080/60i, 720/60p, 480/60p, 480/60i, NTSC and computer resolutions of up to SXGA
- True native resolution without conversion
- Horizontal resolution: 900 lines
- 20" High-Definition monitor with Dynamic Focus circuit
- 4:3 and 16:9 aspect ratio selectable (4: 3 CRT)
- Accepts component, RGB, composite, Y/C and 15-pin PC input
- Overscan and Selectable Color Temperature
- Wired and wireless remote control
- On-screen setup
- Metal cabinet

DTV- Format Signals				
DTV formats	480i	480P	720P	1080i
Signal standard	ITU-R BT.601-4	SMPTE 293M	SMPTE 296M	SMPTE 274M
Scanning lines/frame	525	525	750	1125
Effective sample (Horiz)	720	720	1280	1920
Scanning lines	485	483	720	1080
Field frequency (Hz)	69.94	68.84	60/68.84	60/58.84
Line frequency (Hz)	15734	31468.5	45000/ 44955	33750/ 33716.25
Sampling frequency (MHz)	54	135	148.5/ 148.351648	148.5/ 148.35168
Interface ratio	2:1	1:1	1:1	2:1

Type	DTV/NTSC/PC
CRT	20" measured diagonally, in-line gun. 90° deflection, dot-trio type (dot-trio pitch 0.26 mm)
Effective screen size	Width : 16" (406.4 mm) Height : 12" (304.8 mm) Diagonal : 20" (508 mm)
Scanning frequency	H: 15 k/31.5 k to 65 kHz V: 50 - 100 Hz
Video band	DC - 60 MHz (RGB)
Horizontal resolution	NTSC : 600 TV lines 1080i : 900 TV lines
Aspect ratio	4:3, 16:9 (selectable)
Linearity	±10% (max.)
Pincushion distortion	±1% (max.)
White balance	9300: x=0.283, y=0.297 D65: x=0.313, y=0.329

Input connectors	
INPUT A	RGB/COMPO, multi-input 1 line, BNC connector x 6 (bridge connection possible, auto termination) Analog RGB signal R, B : 0.7 V (p-p), 75 ohms G : 0.7 V (p-p), 75 ohms G on sync : 1.0 V (p-p), 75 ohms (negative sync) Y/R-Y/B-Y component signal Y : 1.0 V (p-p), 75 ohms (negative sync) R-Y/B-Y : 0.7 V (p-p), 75 ohms DTV-format signal [480i (ITU-R BT. 801-4), 480p (SMPTE 283M)] Y : 1.0 V (p-p), 75 ohms (negative sync) P <sub>B</sub> , P <sub>R</sub> : 0.7 V (p-p), 75 ohms [720p (SMPTE 286M), 1080i (SMPTE 274M)] Y : 1.0 V (p-p), 75 ohms (3-value sync) P <sub>B</sub> , P <sub>R</sub> : 0.7 V (p-p), 75 ohms



External Synchronization	EXT SYNC (HD/Cs. VD) input 1 line, BNC connector x 4 (bridge connection possible, auto termination) Horizontal/composite synchronization signal HD : 1 - 4 V (p-p), 75 ohms Cs : 1 - 4 V (p-p), 75 ohms Vertical synchronization signal VD : 1 - 4 V (p-p), 75 ohms
INPUT B	VIDEO input 1 line, BNC connector x 2 (bridge connection possible, auto termination) 1.0 V (p-p), 75 ohms (negative sync) Y/C input 1 line, mini-DIN 4-pin connector x 1 Y: 1.0 V (p-p), 75 ohms (3-value sync) C: 0.286 V (p-p) (burst signal), 75 ohms *(When both terminals are connected at the same time, the Y/C terminal is given priority.)
INPUT C	PC (RGB) input 1 line, D-sub 3-row 15-pin connector x 1 *Exclusively for computer signal input (SYNC termination : 330 ohms)
AUDIO INPUT	1 line, RCA pin x 1 (Monaural) 0.5 V <sub>rms</sub> , high-impedance
Remote input/output	1 line, DIN 8-pin connector x 1 External input select control of 3 bits (signal of 2 bits, ENABLE signal of 1 bit) Input status output of 2 bits
Audio output	1 W (Monaural)
Built-in speaker	3-1/8" (8 cm) round x 1 Impedance of 8 ohms
Environmental conditions	Operating temperature: 0°C to 40°C (32°F to 104°F) Operating humidity: 20% to 80% (non-condensing)
Power requirements	120 V AC, 60 Hz
Power consumption	1.6 A
Weight	31.6 kg (69.6 lbs.)
Accessory	AC power cord [2.4 m (7.87 ft)] x 1
Dimensions	476 (W) x 407.5 (H) x 529 (D) mm (18-3/4" x 16-1/8" x 20-7/8")