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Specifications

BT-D1920Y	and the second					_
System	525 lines per picture, 60 fields	S-Video Input	Y signal: 1 Vp-p	Dist	24	
CRT	per second, interlaced, NTSC Medium Resolution CRT, gray	a subscription	C signal: 0.285 Vp-p	Picture Performance Overscan	5 % overscan of CRT effective	
	face screen, 70% transparency		75 Ω or high impedance (manual)	Underscan	screen area	
	0.55 mm dot pitch, 90° deflection, 29.1 mm in-line gun	S-Video Output	Mini-DIN 4P type connector	Underscan	5 % underscan of CRT effective screen area	1
Effective Picture Size	9 15 ¹ /2" x 11 ⁹ /16"	S-video Output	Y signal: 1 Vp-p C signal: 0.3 Vp-p	Linearity		1
(H x V)	(394 x 293 mm)		75 Ω or high impedance	diameter equals the	a bounded by a circle whose picture height, within 5 % of the	
Input and Output	19" diagonal		(manual)	picture height; out o	of area, within 7 %	
Video	LINE A/B; BNC connector (x 4)	Tally-Remote Connect	Mini-DIN 4P type connector or	Color Temperature	6,500°K, adjustable to other	
	1.0 Vp-p composite video signal \pm 2 dB, positive, 75 Ω , with	•	REMOTE: 3 terminal type (DC 24.0 ± 1.0 V input or switch)	Convergence Error	color temperatures Central area: Less than 0.5 mm Periphery: Less than 0.7 mm	
Sync	automatic loop-through output EXT SYNC; BNC connector (x 2)	Video Signal (Compa	connector (x 1)	Raster Size Stability	Less than 4 % of picture height	
	4.0 Vp-p + 6 dB, - 26 dB	Video Signal (Compo Differential Gain	Within 5 %	Resolution	(at beam current of 0-500 uA)	
	negative, 75 Ω , with automatic loop-through output	Differential Phase	Within 5°	Hesolution	More than 550 TV lines (Center, at preset luminance)	
Video Return Loss	More than 40 dB (0-5 MHz	Frequency Response	Luminance; 100 Hz to 8 MHz ± 3 dB	Maximum Brightness	More than 90 fL	
Suma Datura Laura	with 75 Ω termination)	RGB Signal	1 3 0B	Preset Contrast Environment	$40 \pm 5 \text{fL}$	
Sync Return Loss	More than 46 dB (0—5 MHz with 75 Ω termination)	Differential Gain	Within 5 %	Operating Temperatu	re 32°F to 104°F (0°C to 40°C)	
RGB	R: 0.7 Vp-p \pm 2 dB, 75 Ω , with	Differential Phase	Within 5° 100 Hz to 8 MHz ± 3 dB	Operating Humidity	0 to 90 %	
	automatic loop-through	Synchronication Perf	ormance	General Warm-up	20	
	output (BNC connector x 2) G:0.7 Vp-p ± 2 dB, 75 Ω, with	AFC Time Constant	FAST: 0.4 msec	wann-up	30 minutes to meet specifications	
	automatic loop-through	Line Hold Range	SLOW: 1.6 msec	Anode Voltage	Properly adjust HV 24.5 kV at	
	output (BNC connector x 2)	Retrace Time	More than ± 500 Hz	Power Consumption	zero beam current	
	B: 0.7 Vp-p ± 2 dB, 75 Ω, with automatic loop-through	Horizontal:	Within 10 µsec	Power Requirements	105 W (typical) 120 V AC ± 10 %, 60 Hz	
	output (BNC connector x 2)	Vertical: Interlace	Within 1 msec Better than 40/60	Dimensions (WxHxD	D) 17 ⁵ /8" × 16 ⁵ /16" × 20 ¹ /8"	
	A CONTRACTOR OF PROMOLECUL		Detter than 40/00	Weight	(448 x 414 x 511 mm) 63 ⁷ /8 lbs. (29 kg)	
					00 10 103. (20 Kg)	
BT-M1310Y						
System	525 lines per picture, 60 fields	S-Video Input	Vicianali 1 Via a		and the second se	
ODT	per second, interlaced, NTSC	o-video input	Y signal: 1 Vp-p C signal: 0.285 Vp-p	Picture Performance Overscan	5.04	
CRT	Medium Resolution CRT, 0.39 mm dot pitch, 90°		75 Ω or high impedance	Overscan	5 % overscan of CRT effective screen area	
	deflection, 29.1 mm in-line gun		(manual) Mini-DIN 4P type connector	Underscan	5 % underscan of CRT effective	
Effective Picture Size	10 ⁵ /8" x 7 ¹⁵ /16"	S-Video Output	Y signal: 1 Vp-p	Linearity	screen area	
(H x V)	(267.2 x 200.3 mm) 13 " diagonal	The second state of the	C signal: 0.3 Vp-p	Within a central area	bounded by a circle whose	
nput and Output			75 Ω or high impedance (manual)	diameter equals the r	Dicture height within 5 % of the	
lideo	LINE A/B; BNC connector (x 4)		Mini-DIN 4P type connector	picture height; out of Color Temperature	area, within 7 %	1
	1.0 Vp-p composite video signal $\pm 2 \text{ dB}$, positive, 75 Ω , with	Tally-Remote Connecto	r i sa la construction de la constru		6500°K, adjustable to other color temperatures	-
	automatic loop-through output		REMOTE: 3 terminal type (DC 24.0 ± 1.0 V input or switch)	Convergence Error	Central area: Less than 0.5 mm	
Sync	EXT SYNC; BNC connector (x 2)		24.0 2 1.0 V Input of Switch)		Periphery: Less than 0.7 mm	
	LATOTING, BING CONNECTOR (X2)		connector (x 1)	Baster Size Stability	Dec than 10% of picture baight	
	4.0 Vp-p + 6 dB, - 26 dB	Video Signal (Compos	ite Signal)	Raster Size Stability	Less than 4 % of picture height (at beam current of 0-500 #A)	
	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω , with automatic loop-through output	Differential Gain	ite Signal) Within 5 %	Raster Size Stability Resolution	(at beam current of 0-500 µA) More than 560 TV lines (Center,	
'ideo Return Loss	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω , with automatic loop-through output More than 40 dB (0–5 MHz	Differential Gain Differential Phase	ite Signal) Within 5 % Within 5°	Resolution	(at beam current of 0-500 µA) More than 560 TV lines (Center, at preset luminance)	
/ideo Return Loss Sync Return Loss	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω , with automatic loop-through output More than 40 dB (0–5 MHz with 75 Ω termination) More than 46 dB (0–5 MHz	Differential Gain Differential Phase Frequency Response RGB Signal	ite Signal) Within 5 % Within 5° Luminance; 100 Hz to 8 MHz ± 3 dB	Resolution Maximum Brightness Preset Contrast	(at beam current of 0-500 µA) More than 560 TV lines (Center,	
ync Return Loss	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω , with automatic loop-through output More than 40 dB (0—5 MHz with 75 Ω termination) More than 46 dB (0—5 MHz with 75 Ω termination)	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain	ite Signal) Within 5 % Within 5° Luminance; 100 Hz to 8 MHz ± 3 dB Within 5 %	Resolution Maximum Brightness Preset Contrast Environment	(at beam current of 0–500 μ A) More than 560 TV lines (Center, at preset luminance) More than 60 fL 30 ± 5 fL	
ync Return Loss	4.0 Vp-p + 6 dB, - 26 dB, negative, 75 Ω , with automatic loop-through output More than 40 dB (0-5 MHz with 75 Ω termination) More than 46 dB (0-5 MHz with 75 Ω termination) R: 0.7 Vp-p ± 2 dB, 75 Ω , with automatic loop-through	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain Differential Phase	ite Signal) Within 5 % Within 5° Luminance; 100 Hz to 8 MHz ± 3 dB Within 5 % Within 5 %	Resolution Maximum Brightness Preset Contrast Environment Operating Temperature Operating Humidity	(at beam current of 0—500 μA) More than 560 TV lines (Center, at preset luminance) More than 60 fL	
ync Return Loss	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω, with automatic loop-through output More than 40 dB (0–5 MHz with 75 Ω termination) More than 46 dB (0–5 MHz with 75 Ω termination) R: 0.7 Vp-p \pm 2 dB, 75 Ω, with automatic loop-through output (BNC connector x 2)	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain Differential Phase Frequency Response Synchronication Perfo	ite Signal) Within 5 % Within 5 ° Luminance; 100 Hz to 8 MHz ± 3 dB Within 5 % Within 5 ° 100 Hz to 8 MHz ± 3 dB	Resolution Maximum Brightness Preset Contrast Environment Operating Temperature Operating Humidity General	(at beam current of $0-500 \ \mu$ A) More than 560 TV lines (Center, at preset luminance) More than 60 fL $30 \pm 5 \ fL$ 32° F to 104° F (0°C to 40° C) 0 to 90 %	
	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω , with automatic loop-through output More than 40 dB (0—5 MHz with 75 Ω termination) More than 46 dB (0—5 MHz with 75 Ω termination) R: 0.7 Vp-p ± 2 dB, 75 Ω , with automatic loop-through output (BNC connector x2) G: 0.7 Vp-p ± 2 dB, 75 Ω , with	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain Differential Phase Frequency Response Synchronication Perfo AFC Time Constant	ite Signal) Within 5 % Within 5 ° Luminance; 100 Hz to 8 MHz ± 3 dB Within 5 % Within 5 ° 100 Hz to 8 MHz ± 3 dB rmance FAST: 0.4 msec	Resolution Maximum Brightness Preset Contrast Environment Operating Temperature Operating Humidity	(at beam current of $0-500 \ \mu$ A) More than 560 TV lines (Center, at preset luminance) More than 60 fL $30 \pm 5 \ fL$ 32° F to 104° F (0°C to 40° C) 0 to 90 % 30 minutes to meet	
ync Return Loss	 4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω, with automatic loop-through output More than 40 dB (0-5 MHz with 75 Ω termination) More than 46 dB (0-5 MHz with 75 Ω termination) B: 0.7 Vp-p ± 2 dB, 75 Ω, with automatic loop-through output (BNC connector x2) G: 0.7 Vp-p ± 2 dB, 75 Ω, with automatic loop-through output (BNC connector x2) 	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain Differential Phase Frequency Response Synchronication Perfo AFC Time Constant	ite Signal) Within 5 % Within 5 ° ⊥ uminance; 100 Hz to 8 MHz ± 3 dB Within 5 % Within 5 % Within 5 % 100 Hz to 8 MHz ± 3 dB rmance FAST: 0.4 msec SLOW: 1.6 msec	Resolution Maximum Brightness Preset Contrast Environment Operating Temperature Operating Humidity General	(at beam current of $0-500 \ \mu$ A) More than 560 TV lines (Center, at preset luminance) More than 60 fL $30 \pm 5 \ fL$ $32^{\circ}F$ to $104^{\circ}F$ ($0^{\circ}C$ to $40^{\circ}C$) $0 \ to 90 \ \%$ 30 minutes to meet specifications Properly adjust HV 24.5 kV at	
ync Return Loss	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω , with automatic loop-through output More than 40 dB (0-5 MHz with 75 Ω termination) More than 46 dB (0-5 MHz with 75 Ω termination) R: 0.7 Vp-p ± 2 dB, 75 Ω , with automatic loop-through output (BNC connector x2) G: 0.7 Vp-p ± 2 dB, 75 Ω , with automatic loop-through output (BNC connector x2) B: 0.7 Vp-p ± 2 dB, 75 Ω , with	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain Differential Phase Frequency Response Synchronication Perfo AFC Time Constant	ite Signal) Within 5 % Within 5 ° Luminance; 100 Hz to 8 MHz ± 3 dB Within 5 % Within 5 ° 100 Hz to 8 MHz ± 3 dB rmance FAST: 0.4 msec	Resolution Maximum Brightness Preset Contrast Environment Operating Temperature Operating Humidity General Warm-up Anode Voltage	(at beam current of $0-500 \ \mu$ A) More than 560 TV lines (Center, at preset luminance) More than 60 fL $30 \pm 5 \ fL$ $32^{\circ}F$ to $104^{\circ}F$ ($0^{\circ}C$ to $40^{\circ}C$) 0 to $90 \ \%$ 30 minutes to meet specifications Properly adjust HV 24.5 kV at zero beam current	
ync Return Loss	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω, with automatic loop-through output More than 40 dB (0—5 MHz with 75 Ω termination) More than 46 dB (0—5 MHz with 75 Ω termination) R: 0.7 Vp-p \pm 2 dB, 75 Ω, with automatic loop-through output (BNC connector x2) G: 0.7 Vp-p \pm 2 dB, 75 Ω, with automatic loop-through output (BNC connector x2) B: 0.7 Vp-p \pm 2 dB, 75 Ω, with automatic loop-through	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain Differential Phase Frequency Response Synchronication Perfo AFC Time Constant Line Hold Range Retrace Time Horizontal:	ite Signal) Within 5 % Within 5 % Luminance; 100 Hz to 8 MHz \pm 3 dB Within 5 % Within 5 % 100 Hz to 8 MHz \pm 3 dB rmance FAST: 0.4 msec SLOW: 1.6 msec More than \pm 500 Hz Within 10 μ sec	Resolution Maximum Brightness Preset Contrast Environment Operating Temperature Operating Humidity General Warm-up Anode Voltage Power Consumption Power Requirements	(at beam current of $0-500 \ \mu\text{A}$) More than 560 TV lines (Center, at preset luminance) More than 60 fL $30 \pm 5 \text{ fL}$ 32°F to 104°F (0°C to 40°C) $0 \text{ to } 90 \ \%$ 30 minutes to meet specifications Properly adjust HV 24.5 kV at zero beam current 105 W (typical) $120 \text{ VAC} + 10 \ \% \ 60 \text{ Hz}$	
ync Return Loss	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω , with automatic loop-through output More than 40 dB (0-5 MHz with 75 Ω termination) More than 46 dB (0-5 MHz with 75 Ω termination) R: 0.7 Vp-p ± 2 dB, 75 Ω , with automatic loop-through output (BNC connector x2) G: 0.7 Vp-p ± 2 dB, 75 Ω , with automatic loop-through output (BNC connector x2) B: 0.7 Vp-p ± 2 dB, 75 Ω , with	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain Differential Phase Frequency Response Synchronication Perfo AFC Time Constant Line Hold Range Retrace Time Horizontal: Vertical:	ite Signal) Within 5 % Within 5 % \pm 3 dB Within 5 % Within 5 % Within 5 % 100 Hz to 8 MHz \pm 3 dB rmance FAST: 0.4 msec SLOW: 1.6 msec More than \pm 500 Hz Within 10 μ sec Within 10 μ sec Within 10 μ sec	Resolution Maximum Brightness Preset Contrast Environment Operating Temperature Operating Humidity General Warm-up Anode Voltage Power Consumption Power Requirements	(at beam current of $0-500 \ \mu$ A) More than 560 TV lines (Center, at preset luminance) More than 60 fL $30 \pm 5 \ fL$ $32^{\circ}F$ to $104^{\circ}F$ ($0^{\circ}C$ to $40^{\circ}C$) 0 to $90 \ \%$ 30 minutes to meet specifications Properly adjust HV 24.5 kV at zero beam current	
ync Return Loss	4.0 Vp-p + 6 dB, -26 dB, negative, 75 Ω, with automatic loop-through output More than 40 dB (0—5 MHz with 75 Ω termination) More than 46 dB (0—5 MHz with 75 Ω termination) R: 0.7 Vp-p \pm 2 dB, 75 Ω, with automatic loop-through output (BNC connector x2) G: 0.7 Vp-p \pm 2 dB, 75 Ω, with automatic loop-through output (BNC connector x2) B: 0.7 Vp-p \pm 2 dB, 75 Ω, with automatic loop-through	Differential Gain Differential Phase Frequency Response RGB Signal Differential Gain Differential Phase Frequency Response Synchronication Perfo AFC Time Constant Line Hold Range Retrace Time Horizontal: Vertical:	ite Signal) Within 5 % Within 5 % Luminance; 100 Hz to 8 MHz \pm 3 dB Within 5 % Within 5 % 100 Hz to 8 MHz \pm 3 dB rmance FAST: 0.4 msec SLOW: 1.6 msec More than \pm 500 Hz Within 10 μ sec	Resolution Maximum Brightness Preset Contrast Environment Operating Temperature Operating Humidity General Warm-up Anode Voltage Power Consumption Power Requirements Dimensions (W x H x D)	(at beam current of $0-500 \ \mu\text{A}$) More than 560 TV lines (Center, at preset luminance) More than 60 fL $30 \pm 5 \text{ fL}$ 32°F to 104°F (0°C to 40°C) $0 \text{ to } 90 \ \%$ 30 minutes to meet specifications Properly adjust HV 24.5 kV at zero beam current 105 W (typical) $120 \text{ VAC} + 10 \ \% \ 60 \text{ Hz}$	

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Panasonic

Communications & Systems Company

Division of Matsushita Electric Corporation of America PROFESSIONAL/INDUSTRIAL VIDEO

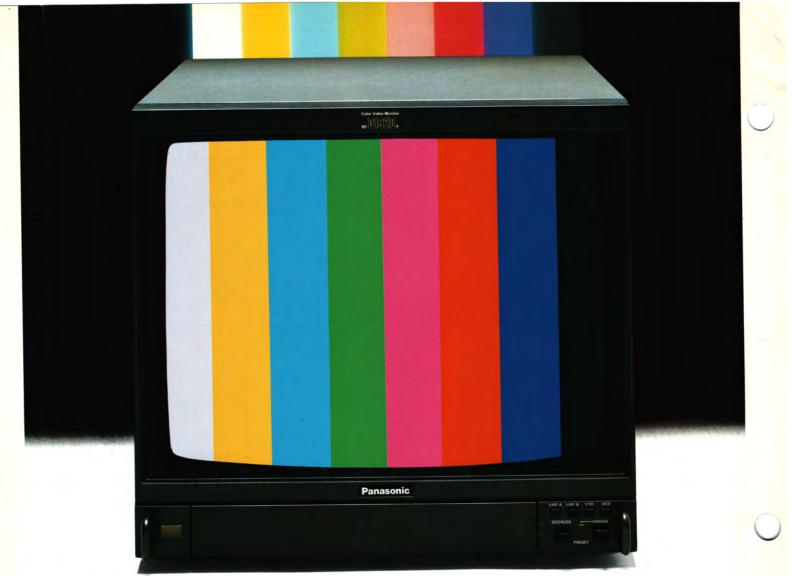
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BT-DIP20Y 19" Diagonal Color Video Monitor

The Panasonic BT-D1920Y is a precisely calibrated, high-quality 19" Color Video Monitor for composite NTSC, S-Video, and RGB inputs. It lets you monitor both conventional signals and S-VHS for optimum video performance and accurate image measurement/analysis. In addition, multiple inputs and outputs permit connection of the BT-D1920Y with a broad range of equipment. With simple switch selection of the desired output conveniently available from the front panel.

Line A/B/VCR/RGB Input Selectable

The front panel of the BT-D1920Y features a convenient array of facilities for easy selection of inputs. You can switch among Line A/B, RGB, or VCR input—which is switchable itself between S-Video and conventional video. Selection of loop-through or termination for the Line A/B and RGB signals is made automatically.

LINE A	LINE B	VTR	RGB	
DEGA	ISS	POWFR		

S-VHS Compatible

For complete, full-quality compatibility with S-VHS format equipment, the BT-D1920Y has S-Video input and output connectors with bridging capability. The VCR input is switchable between conventional 8-pin and S-Video. And because S-VHS compatibility requires greater precision in circuit tolerances (than in previous Panasonic models), the circuit performance with conventional input signals is improved.



Complete Array of Inputs and Outputs

- S-Video (Y/C separate) input and output terminals (4-pin mini-DIN connectors) with 75 ohm/high impedance selector
- Line A input/output terminals (BNC type) with automatic termination
- Line B input/output terminals (BNC type) with automatic termination
- External Sync input/output terminals (BNC type) with automatic termination



BT-MIBIOY 13" Diagonal Color Video Monitor

The BT-M1310Y is a 13" precision calibrated Color Video Monitor for composite NTSC, S-Video, and RGB inputs. It has the same valuable features as the 19" **BT-D1920Y**, although its front panel controls are arranged vertically rather than horizontally. The BT-M1310Y is ideal for broadcast and non-broadcast studio applications. And for other color signal monitoring where high resolution and precise tolerances are required. It accepts S-Video inputs, and has a full array of other inputs and outputs to enable versatile interfacing.

Versatile Front Panel Controls

A full set of front panel controls at the side of the screen includes: Preset Picture On/Off, Line A/B Split, Set-Up Switch, Cutoff Switch, Screen Controls, Time Constant Switch, Vertical and Horizontal Sync Switches, Underscan/Normal Switch, Blue-Only Switch, Color/Auto/Mono Mode Selector, Comb/Trap Filter Switch, Degauss Switch, and Picture Controls.

Line A/B/VCR/RGB Input Selectable

Front panel selectors let you switch between

Line A and B inputs, RGB input, or VCR input—which is switchable itself between S-Video and conventional video. Selection of loop-through or termination for the Line A/B and RGB signals is made automatically.

S-VHS Compatible

The BT-M1310Y has S-Video input and output connectors to accept S-VHS signals. A rear panel switch lets you choose between a conventional 8-pin or an S-VHS (termination or loop-through) VCR input source. And the circuit tolerances required to provide S-VHS compatibility result in superior monitoring performance with conventional signals.

Complete Array of Inputs and Outputs

- S-Video in and out terminals with 75 ohm/ high impedance selector
- Line A and B in/out terminals with automatic termination
- External Sync in/out terminals with automatic termination
- R, G, B in/out terminals with automatic termination
- 8-pin VCR terminal (input and output)



Rack Mountable

Optional rack mount slides and brackets allow the BT-M1310Y to be mounted easily in most standard 19" racks.

Additional Features

- Front panel tally lamp
- Rugged metal cabinet construction
- Convenient rack mounting handles
 Commercial UL listing; 3-pronged AC power cord
- Component input (R-Y, B-Y, Y) available as option

Two High Performance Color Monitors

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The BT-D1920Y and BT-M1310Y are two versatile color monitors built for high performance—with the quality and reliability you've come to expect from Panasonic. They offer you the controls and connection facilities needed for broadcast and nonbroadcast studio applications. And they also serve a

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wide range of industrial, educational and professional video production needs. In addition, for maximum convenience and versatility, the BT-D1920Y and BT-M1310Y Color Video Monitors offer complete, direct compatibility with the new S-VHS format—as well as with conventional signals.

Versatile Front Panel Controls (BT-D1920Y/BT-M1310Y)

Preset Picture On/Off

The Preset Picture On/Off function lets you choose between manual picture adjustment or automatic setting. When the Preset switch is off, you can adjust contrast, brightness, chroma, phase and aperture.

Line A/B Split

Line A/B Split allows you to monitor both A and B video inputs simultaneously, to simplify phase adjustment. The line A signal appears in the upper half of the screen, and the line B signal appears in the lower half.

Set-Up Switch

Provides a set-up screen for white balance adjustment.

Simple White Balance Adjustment

The cutoff switch lets you selectively switch the red, green and blue beams on and off. Screen controls allow white balance adjustment at low brightness. While drive controls enable white color temperature adjustment at high brightness levels.

Switchable Time Constants

Select a fast time constant to correct for jitter during tape playback. Or switch to the slow position to reveal time base instability.

Pulse-Cross Circuit

The Pulse-Cross Circuit function lets you observe vertical sync and horizontal sync separately or together.

Normal/Underscan Switch

Underscanning can disclose skewing, deflection transients and other glitches. Switching to the underscan position lets you judge picture composition and detect intruding cameras and mike booms.

Blue-Only Switch

The Blue-Only switch is convenient for

color and phase adjustment using a color bar display (SMPTE), and for detecting VCR playback noise.

Color/Auto/Mono Mode Selectable

The viewing mode is switchable between color and monochrome. Or, you can set the switch for automatic color/mono selection, based on color burst detection.

Comb/Trap Filter Selectable

Located conveniently on the front panel, the Comb/Trap Filter select switch lets you choose between a comb filter (for higher resolution) and a trap filter, depending upon which will provide a more useful reference when adjusting reception from a particular video camera or other signal source.

Degauss Switch

The Degauss' switch neutralizes residual magnetization from external fields.



 R, G, B input/output terminals (BNC type) with automatic termination
 8 pin VCP terminal (input and putput)



Rack Mountable

Optional slides and brackets are available to enable easy rack mounting of the BT-D1920Y in standard EIA 19" racks.



Additional Features

- Front panel tally lamp
- Separate H/V-size controls
- H and V centering controls
- V hold control
- Rugged metal cabinet construction
- Convenient rack mounting handles
- Commercial UL listing; 3-pronged AC power cord
- Component input (R-Y, B-Y, Y) available as option

