

528A Waveform Monitor mounted side by side with a 1420 Vectorscope.

528A/1420 Series

Parallax-Free Internal Graticule

Half Rack Width

Proven Performance

Available in NTSC, PAL, PAL-M Models

The 528A Waveform Monitor and 1420 Series vectorscopes and X-Y monitors provide complete monitoring of your video signal. One 528A and one 1420 Series monitor mounted side by side in the optional rack adaptor provide a continuous display of both the luminance and chrominance information of your video signal, whether your signal is in the NTSC, PAL, or PAL-M format.

These monitors are ideally suited for use in camera, VTR, video production and post production monitoring applications. They all have simple-to-understand and easy-to-use controls.

CHARACTERISTICS (528A)

Inputs — Two Rear Panel BNC Connectors (A and B): Provide two 75 Ω loop through connectors (normally ac coupled but may be easily modified for dc coupling).

Video Output — The displayed signal is provided at the Video Out rear panel connector.

Dc Restoration — Slow acting back porch dc restoration.

Calibrator — An internal calibration signal provides a convenient reference to verify the deflection factor, Calibrator amplitude is 1.0 V p-p \pm 1%.

TIME BASE

Provides four time base operating modes; baseline visible in each mode with no external video or sync inputs.

EXTERNAL SYNC

Input Signal Levels — 1.5 V to 4.5 V p-p (composite sync will synchronize sweeps).

YRGB AND RGB

The 528A can be used with color camera processing amplifiers that provide the necessary signal switching and staircase signals.

CHARACTERISTICS (1420, 1421, 1422)

Chrominance Bandwidth — Upper - 3 dB Point: Fsc +550 kHz ±100 kHz; Lower - 3 dB Point: Fsc - 550 kHz ±100 kHz. Vector Phase Accuracy — Within 1°.

Phase Control Range — 360° continuous rotation with goniometer.

Input Amplitude Range — 1 V ± 6 dB

Front Panel Gain Control Range — Unity to $+15.12~\mathrm{dB}$; Unity to $-6~\mathrm{dB}$.

Input Return Loss - At least 46 dB to 5 MHz.

Differential Phase - 1° or less.

Differential Gain - 1% or less.

AC POWER

Line Voltage Ranges — 99 V ac to 132 V ac and 198 V ac to 250 V ac (528A), 90 V ac to 132 V ac and 180 V ac to 250 V ac (1420 Series).

Typical Power Consumption — 48 W (528A). 45 W (1420, 1421, 1422).

Mains Frequency — 48 Hz to 66 Hz.

SAFETY

528A Waveform Monitors are CSA556B certified. With cover or carrying case installed they meet the requirements for listing under UL 1244, 528A's without a cover are UL recognized components.

PHYSICAL CHARACTERISTICS (528A/1420 SERIES)

Dimensions	mm	in
Width	216	8.5
Height	133	5.3
Depth	470	18.5
Weights (528A)	kg	lb
Net (with accessories)	6.8	15.0
Shipping	10.4	23.0
Weights (1420 Series)	kg	lb
Net (with cabinet)	7.0	15.5
Net (without cabinet)	5.9	13.0
Shipping	9.1	20.0

INCLUDED ACCESSORIES

9-pin plug connector for 528A (136-0099-01); manual; 75 Ω termination for 1420, 1421, 1422 (011-0102-00).

ORDERING INFORMATION

These instruments are configured for rackmounting and are shipped without cases or covers. To configure for bench or portable use, order appropriate optional accessories.

OPTIONAL ACCESSORIES

Cover -

- Unfinished aluminum, no handle or feet. Order

437-0100-01\$60
Carrying Case — Painted, with handle and feet. Order 390-0018-01
Camera — Use standard C-59AP, C-4 Option 02, or standard C-5C. (See camera section of this catalog).
Side-by-Side Rack Adaptor — (For two half-rack instruments). Order 016-0115-02
Blank Panel - For rack adaptor. Order 016-0116-00 \$42