

EV4181-HD

Multiple Standard Waveform Monitor



- ◆ HD – SD Serial Digital & Analogue component
- ◆ Auto standard detection
- ◆ Component or RGB Waveform display
- ◆ Colour diff & relative timing displays
- ◆ Line selection
- ◆ Decoded outputs
- ◆ Illegal colour indication
- ◆ 16 character LCD information display
- ◆ Complete solution for video signal monitoring



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How do you monitor the quality of your video? The EV4181 is a multiple input waveform monitor that will automatically detect and display almost any broadcast standard of video signal whether in HD or SD, Digital or Analogue.

The EV4181 has been designed to be very easy to operate and indicates clearly the selected functions. Considerations other than functionality were affordability.

The EV4181 provides the most cost effective and complete solution for today's video signal monitoring.

SPECIFICATIONS:

DISPLAY:

10x8cm CRT with a P31(GH) phosphor. Accelerating potential 12kV

DISPLAY CONTROLS:

Intensity, Focus, LED Scale illum and Trace align. Astig internally preset.

SIGNAL CONNECTIONS:

SDI in - HD SMPTE 292M, SD SMPTE 259M, Reclocked out.
Analogue in - Three pairs loop-through connectors allow for component or composite. Return loss better than 40dB.
Converter outputs - YCbCr outputs decoded from serial digital input. One set for HD and one set for SD.
Monitor outputs - RGB outputs for general purpose monitoring. VGA 15 pin connector.

DISPLAY MODES:

A,B or C selected: Each channel individually displayed or overlayed at desired line or field rate.
Bowtie for timing and amplitude checks.
Vector display of channel B horizontal and C vertical, colour difference.

CALIBRATOR:

Precise amplitude checks set to 700mV and 525mV

LINE SELECTION:

Displays and indicates selected line.

SYNCHRONISATION:

Internal or external sync source. Internal is from the displayed A channel. External reference may be composite, black-and-burst or mixed-sync signal with sync amplitudes between 150mV and 4V.

SWEEP RATES:

Vertical: 3, 2, 1 field. Horizontal: 3, 2, 1 lines.
X5 magnification increases 1 line sweep rate to 1us/div and X50 to 100ns/div.

VERTICAL AMPLIFIER:

Frequency response Flat 25Hz to 30Mhz. LP-Low pass filter to IEEE standard 205.
Lin - Linearity bandpass filter centred on 500kHz for line non linearity checks.
GBR - display signals for gamut checking.

INFORMATION DISPLAY:

LCD 16 character back lit dot matrix display.

POWER REQUIREMENTS:

90-250VAC. Consumption 40VA nominal