

## SM202 Dual Caption Monitor

Standard Definition NTSC EIA-608B monitor used to display closed captions that have been encoded into both fields of a video signal.

The Model SM202 is a simultaneous two field caption decoder providing a simple means of verifying the encoding of two language captions. The SM202 is built in a one rack unit chassis and processes the input video's line 21 data from each field independently. The monitor can operate with a video signal that may have captions encoded into either field or both fields. It will simultaneously decode both the CC1 and CC3 data channels and present the decoded outputs at the two independent Monitor Outputs. Once connected to the source and monitors, the SM 202 will provide continuous two field caption monitoring without any further operator involvement.

### INPUT VIDEO CHARACTERISTICS

Video Input Level	1.0 Vp-p nominal
Video Input Variation	0.7 to 1.4 Vp-p
Input Impedance	75 Ohms
Input Return Loss	>35dB to 5MHz with external load having a 40dB return loss
Input Signal-To-Random level	Unit functions to 25dB ratio (CCIR NOISE RATIO weighted) with typically one error per row at that level

### OUTPUT VIDEO CHARACTERISTICS

Video Outputs	2 provided
Video Output Level	1.0 Vp-p nominal
Video Output Variation	0.7 to 1.4 Vp-p
Insertion Gain	Unity $\pm$ 0.5%
Output Impedance	75 Ohms nominal
Output Return Loss	30dB to 5MHz
Output DC Level	0V $\pm$ 50mV at back porch
Clamp Type	Keyed back porch
Frequency Response	$\pm$ 0.1 dB, 50KHz to 5 MHz +0.1 dB; -0.5 dB 5 MHz to 8 MHz
Line Tilt	Less than 1%
Field Tilt	Less than 1%
Signal-To-Random Noise Ratio	65 dB or greater CCIR weighting
Spurious Signals	-60 dB down up to 5 MHz, - 40 dB down above 5 MHz
Character Video	90 Units (adjustable)
Character Background Level	10 Units (adjustable)

### FRONT PANEL DISPLAYS

Power (On-Off)	Push-button power switch with reset. White bar indicates status.
Power	LED lights to indicator power on and CPU status.
CC1	LED indicates presence of CC1 data.
CC3	LED indicates presence of CC3data.

### REAR PANEL CONNECTORS

Video In	BNC connectors providing decoded video outputs
120 V 60 Hz Line Cord	Standard captive 3-wire line cord. 5 feet long.

### PHYSICAL CHARACTERISTICS

Height	1.75 inches (4.45 cm)
Width	19 inches (48.3 cm)
Depth	51/4 inches (13.3 cm)
Mounting	Designed for rack mounting.
Weight	3 lbs. (1.36 kg)
Operating Ambient	0 C to +50 C

### POWER REQUIREMENTS

Line Frequency	47-440 Hz
Line Voltage	117 VAC +/- 10%
Line Current	0.07 A maximum
Input Power	10 W maximum
Circuit Breaker	0.1 A trip current. In Power On/Off switch.