



EMI Automated Measurement System



DSI 120

■ The DSI-120 combines the DSI-110B Broadband receiver with the DSI-110 Automated Measurement Software and the DSI-202 Spectral Display Modul and EMI Software, thus providing a flexible and powerful system for MIL-STD or Commercial testing or for security oriented applications.

■ The DSI-120 is ideally suited to a wide variety of signal measurements tasks, such as EMI/EMC testing, RF applications, spectrum surveillance and remote signal monitoring, in either a laboratory or field environment. The R-110B receiver covers a wide frequency range of 1kHz to 1GHz, permits LF and UHF monitoring, with a single unit.

■ The receiver has excellent spur noise figure, and dynamic range characteristics with bandwidths up to 200 MHz suitable for board spectrum monitoring or MIL-STD, EN and FCC testing. The software operates with Windows or Windows NT, and designed to optimize production in a variety of environments.

■ The system includes a Pentium based computer, printer and communication ports, IEEE-488.2 interface and a Spectral Display Modul. The DSI-120 System is designed to facilitate expansion, and several options and ancillary units are available to provide extension of the frequency range (100Hz to 22GHz) pre-selection (for use in noisy environments), automated turntable and mast operations, and calibration capability.

SYSTEM SPECIFICATIONS	
SYSTEM	
Detection Modes:	Quasi-peak, Peak, RMS, Average
Sweep Test:	100 steps/sec
Sensitivity	Typically 10dB above thermal noise
Measurement Precision	For SNR > 10dB, ± 2 db
Self-Test:	Automatic start-up and pre-measurement checks
Document Preparation:	Word Processor with graphic processor
RECEIVER	
Noise Figure:	Typically 13 dB (10 dB typical in mid-range)
Frequency Range:	1 kHz to 2.0 GHz (extendable to 20 Hz and 22 GHz with converters)
IF Bandwidths:	40 bandwidths, from 100 Hz to 200 MHz
Weight:	40 lbs. (18 kg)
DVM:	Peak-hold, 7.5 MHz BW, 12 bit A/D, 4-digit display
IF Output:	21.4 MHz, 1450 MHz
Detector Outputs:	AM (peak) and FM Linear/Log, Aux video with pulse stretch/slideback
Audio:	>1 Vrms; 20 Hz-20 kHz
Computer included.	
Receiver has side handles and collapsible bail.	