Table 1-1. MT-9500 Physical/Functional Specifications

Dimensions	Bench version: 20" (508mm) wide x 11-1/2" (292mm) high x 18-1/2" (470mm) deep Rack-mount version: 19" (483mm) wide x 10-1/2" (266.7mm) x 17-1/2" (445 mm) deep
Weight	65 pounds (29.5 kg)
Power Requirements	Line: 95 - 132 VAC 190 - 264 VAC 48 - 440 hertz* 600 watts *Consult factory for operation above 66 hertz. Fuse: 120 volts, 6 amperes (250 V) 240 volts, 3 amperes (250 V)
Recording Method	Direct-writing thermal array Resolution: 200 dots/inch across paper width
Paper	Low-cost, permanent, black-imaging thermal paper
Paper Width	15.3 inches (388 mm)
Paper Length	Z-Fold Pack: 500 sheets (458 ft/140 m), individually numbered in descending order Roll: 500 foot (Rewinder accessory required)
Trace Width	0.01 inch nominal (2 dots)
Paper Travel Direction	Top to bottom
Paper Exit	Front

Table 1-1. MT-9500 Physical/Functional Specifications (continued)

Number of Channels	Analog Waveform: 8 Digitized Waveforms (optional): 32 Alphanumeric Annotation (optional): 8 System Log: 1
Channel Grid Format (Analog)	Eight 40 mm or two 160 mm grids (optional) corresponding to mode selection. Printed simultaneously with waveform data.
Frequency Response	DC to 3 khz, down 1 dB DC to 5 khz down < 3 dB, full scale
A/D Resolution	12 bit
Analog Input	10 mV per division ±5 V full scale max without signal conditioners (optional)
Digitized Input (optional)	Digital input on rear panel. For complete information, see the MT-9500 Host Control Operations Manual.
Operating Modes	Real Time *(a)* 8 channels on individual 40 mm grids *(b)* 2 sets of 4 channels, each overlapped on two 160 mm grids (optional) *(c)* Datalogger numeric values of wave forms calibrated in user-specified engineering units (optional) Data Capture (optional) *(a)* On-demand "snapshot" from front panel pushbutton. *(b)* Transient capture triggered by voltage level external TTL low or switch closure.

Table 1-1. MT-9500 Physical/Functional Specifications (continued)

Operating Modes (continued)	*(c)* Memory size: 128k samples total (16k/channel for 8, 64k/channel for 2) Time base ranging from 1 to 100 ms/mm *(d)* Trigger/Window: variable from 1% to 100% for complete pre- or post-trigger viewing of data Memory type: circular buffer Resolution: 12 bit Data Playback Choices (optional) *(a)* 8 signals on separate 40 mm-wide grids *(b)* 4 signals overlapped on 160 mm-wide grids *(c)* Any 2 signals as X-Y plot *(d)* Datalogger numeric values of waveforms calibrated to your engineering units
System Log Channel	Automatically prints hour, minute, second, day, month, year, chart speed, and time scale in ms/mm. Prints recording mode on each page.
Annotation (optional)	8 annotation channels to identify waveforms. 100 character buffer provides 40 characters for signal conditioner reporting and 60 characters for customer use.
LED Waveform Display (optional)	Displays signal positions of all 8 channels Standard: 19"(483 mm) Rack mounting: 1.75"(44.4 mm) high
Event Markers	1 standard, 8 optional
IRIG Time Code (optional)	Accepts modulated or demodulated IRIG A,B,H, and NASA 36. Prints IRIG time (in place of internal clock) in system log channel
Computer Interfaces	RS-232 and IEEE 488

Table 1-1. MT-9500 Physical/Functional Specifications (continued)

Signal Polarity Inversion	Polarity reverse of channels controllable from the front panel
Front Panel Controls	*(a)* "Zero," "Gain," "Cal" for 8 waveform channels *(b)* "Help" keys print condensed operating instructions on demand *(c)* Event marker push-button *(d)* ID push-button to identify overlap or separate channels by number on the waveform *(e)* Data capture controls for "Trigger," "Slope," and "Level" *(f)* Keypad for setting time, date, speeds, text entry, modes, and functions. *(g)* Power On/Off
Paper Speeds	Every integer from 1 to 100 in mm/s, mm/min, mm/hr and 200 mm/s by means of a crystal-reference stepper motor. 500 mm/s available on special order.

Table 1-2. Options for the MT-9500 Recorder

Option	Description
DC-95	**Data Capture option.** This option provides memory for the acquisition and storage of 128,000 (128k) sample waveform-data points.
AP-95	**Alphanumeric Printing option.** This option provides eight 100-character text buffers for chart annotation and enables signal conditioner reporting.
EP-95	**Enhanced Performance option.** This option increases the waveform density that can be printed full scale simultaneously in all eight channels.
EM-95	**Event Marker option.** This option provides eight TTL-low/switch-closure event channels in addition to the recorder's standard single event marker capability (9 total).
OM-95	**Overlap Mode option.** This option allows the recorder's eight channels to be overlapped four each on two expanded grids.
OG-95	**Optional Grid.** This option provides 50-division grids in 8-channel mode instead of the recorder's standard 40-division grids.
IRIG-95	**IRIG option.** The IRIG option allows the recorder to decode modulated or demodulated IRIG A, B, H, or NASA 36 time codes and print text on chart.
DI-488-95	**Digital Interface option.** This option allows the recorder to accept and record a maximum of thirty-two digitized waveforms through its standard rear-panel IEEE-488 interface.
DL-95	**Datalogger option.** This option enables the recorder to scale waveforms into tabular lists of user-specified engineering units.