

Acquisition System														
Input channels	CH1, CH2													
Input impedance	1 M Ω \pm 1.5%; 20 pF \pm 2 pF at BNC													
Input coupling	AC, DC, GND													
DC accuracy	\pm 2.0%													
Max input	400 V _{max} (DC+peak AC)													
Vertical resolution	8 bits													
Sensitivity	2 mV – 10 V/div, \pm 2.0% (1-2-5 sequence)													
Offset range	2 mV – 50 mV/div: \pm 1 V; 100 mV – 500 mV/div: \pm 10 V; 1 V – 10 V/div: \pm 100 V, display in division or volts													
Acquisition memory	Short selection: 5 kpts/Ch; long selection 100 kpoints/Ch													
Max sample rate	500 MS/s single shot on both channels													
Equiv. time sample rate ¹	25 GS/s on both channels													
Peak detect	2 ns (500 MS/s); acquires and displays signal's min/max at 500 MS/s at all time/div settings on 2 channels													
Bandwidth limiter	Select: off, 10 MHz, independently by channel													
Timebase System														
Clock accuracy	\leq 50 ppm													
Time/div settings	5 ns to 50 s/div (1-2-5 sequence)													
Roll mode	500 ms – 1000 s/div, 100 kpts/s max													
Triggering System														
Modes	Normal, Auto, Single, and Stop													
Types	Edge: (+/-), TV													
Event types	Count, Burst, Missing, Extra													
TV types	Formats: NTSC, PAL (SECAM), TV-V (Odd, Even, Both, Line Select), TV-H													
Sources	Any input channel, external, or line.													
Coupling	DC, AC, HFREJ, LFREJ													
Holdoff	Off or select 200 ns – 2 s													
Internal trigger range	\pm 5 div													
Max trigger frequency	Up to 100 MHz													
Pre-trigger recording	– 5 divisions													
Post-trigger delay	<table border="1"> <thead> <tr> <th>Memory Length Selected</th> <th>Time/Div</th> <th>Delay</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Short (5k)</td> <td>5 ns – 1 ms</td> <td>0 – 10 ms</td> </tr> <tr> <td>2 ms – 50 s</td> <td>0 – 500 s</td> </tr> <tr> <td rowspan="2">Long (100k)</td> <td>5 ns – 20 ms</td> <td>0 – 200 ms</td> </tr> <tr> <td>50 ms – 50 s</td> <td>0 – 500 s</td> </tr> </tbody> </table> <p>(–500 s to approximately +750 s when signal is acquired and stopped)</p>	Memory Length Selected	Time/Div	Delay	Short (5k)	5 ns – 1 ms	0 – 10 ms	2 ms – 50 s	0 – 500 s	Long (100k)	5 ns – 20 ms	0 – 200 ms	50 ms – 50 s	0 – 500 s
Memory Length Selected	Time/Div	Delay												
Short (5k)	5 ns – 1 ms	0 – 10 ms												
	2 ms – 50 s	0 – 500 s												
Long (100k)	5 ns – 20 ms	0 – 200 ms												
	50 ms – 50 s	0 – 500 s												
External Trigger Input														
Input impedance	DC coupling, 1 M Ω \pm 1.5%; 20 pF \pm 2.5 pF													
Max input	400 V _{max} (DC+peak AC)													
Autosetup	Automatically sets timebase, trigger, and sensitivity to display a wide range of repetitive signals; vertical find automatically sets sensitivity for the selected input signal.													
Probes														
Model SS-0130R	100 M Ω bandwidth with 10:1 autodetect (one per channel included)													
Impedance at probe tip	10 M Ω \pm 2.0%, 14.5 pF \pm 2 pF													
Max input	600 V (DC + peak AC) with auto detect (one per channel included)													
Auto detect	Select Auto, 10:1, 100:1, 1000:1													
Probe Calibrator Output														
Output signal	Square wave, 1 kHz \pm 0.01%, 0.60 V \pm 0.01%, test point and ground lug on front panel													
Waveform Display														
Type	High-intensity, backlit 5.8" diagonal flat LCD, blue trace on white background or reverse													
Size	320 x 240 pixels													

Mode select	Normal (Y-T), X-Y			
Contrast control	Automatic and manual settings			
Real time clock	Date, hours, minutes, and seconds displayed with waveform			
Number of traces	Max. three traces (CH1, CH2, and math trace) + max. 10 reference traces (5 per channel)			
Grid styles	Grid, axis, and frame (8 div vertical, 10 div horizontal)			
Display styles	Sample dots joined or dots only			
Persistence	Toggle off/infinite via front panel button			
Zoom Expansion Traces				
Vertical zoom	Up to 2.5x expansion			
Horizontal zoom	Expand/magnify up to 4000x when signal is acquired and acquisition is stopped			
Hardware Frequency Counter				
Digits/accuracy	Five digits, $\pm 0.01\%$			
Frequency range	1 Hz to 100 MHz			
Storage				
Internal setup storage	One internal, non-volatile memory for store and recall of 1 setup using front panel buttons			
Reference waveform storage	Store 10 reference waveforms (up to five per channel)			
External storage	Floppy drive and ATA card slot are standard (ATA card is optional)			
Waveform storage format	Binary or ASCII			
Waveform Processing				
Math (calculated trace)	Perform up to three math processing functions; Multiply (CH1 x CH2), Subtract (CH1 - CH2), Add (CH1 + CH2)			
Averaging ¹	2 - 256 sweeps (power of two increments)			
Automatic Measurements¹				
Display any four parameters	Tr (Risetime)	Duty (duty cycle)	Vmean (peak voltage)	-Peak (peak negative voltage)
	Tf (Falltime)	Period	+Peak (peak positive voltage)	P-P (peak-to-peak voltage)
	+PW (positive pulse width)	Skew (time delta)		
	-PW (negative pulse width)	Vrms (rms voltage)		
Cursor Measurements				
	Δ voltage, Δ time, $1/\Delta$ time, Δ voltage and Δ time, voltage at time			
Interface				
Remote control	Control via RS-232-C			
GPIB option	Custom GPIB PC card			
Floppy drive	Internal, DOS-format, 3.5" high-density			
PC card slot	Supports ATA cards			
Centronics port	Parallel printer interface			
Internal graphics printer	Thermal line printer provides hardcopy output. Standard print or roll print (strip chart recorder format)			
Print image formats	Centronics; DPU-414, ESC-P09, ESC-P24, PCPR201, TIFF, BMP, Floppy, and ATA Card			
Calibrator Output				
Calibrator signal	Square wave, 1 kHz $\pm 0.01\%$, 0.60 V $\pm 0.01\%$, test point and ground lug on front panel			
General				
Operating conditions	Temperature 0 - 40° C; humidity 80% non-condensing at 40° C; altitude \leq 2,000 meters			
Shock and vibration	Conforms to MIL-PRF-28800P, Class C			
Power requirements	100 - 240 V AC; 50/60 Hz			
Max power dissipation	90 VA when printing			
Certifications	CE, UL and cUL (available May 2000)			
Dimensions (HWD)	215 mm x 170 mm x 166 mm			
Weight	3 kg; 6.6 lbs			
Warranty and calibration	Three years; calibration recommended yearly			