

Model	HP 54501A	HP 54502A	HP 54503A	HP 54504A	HP 54510A	HP 54600A/ HP 54601A	HP 16500A Mainframe with 16532A
Bandwidth: Repetitive Single-Shot	100 MHz 1 MHz ²	400 MHz 100 MHz	500 MHz 2 MHz ²	400 MHz 50 MHz	250 MHz 250 MHz	100 MHz 2 MHz ²	250 MHz 250 MHz
Time Interval Accuracy: Repetitive Single-Shot	1 ns 1 ns	250 ps 500 ps	100 ps 100 ps	250 ps 1 ns	100 ps 150 ps	200 ps 200 ps	± 150 ps ± 150 ps
Channels	4 (2+2)	2	4	2	2	HP 54600A: 2 HP 54601A: 4 (2+2)	2 to 10
Digitizing Rate	10 MSa/s	400 MSa/s	20 MSa/s	200 MSa/s	1 GSa/s	20 MSa/s	1 GSa/s
Memory/ Channel	500 samples 1k samples (HP-IB)	501 samples 2k samples (extended)	501 samples 1k samples (HP-IB)	501 samples 2k samples (extended)	8k samples	4k samples	8000 samples
Vertical Resolution	8 bits; 10 bits with averaging	6 bits; 8 bits with averaging	8 bits; 10 bits with averaging	8 bits; 10 bits with averaging	8 bits; 10 bits with averaging	8 bits	8 bits; 10 bits with averaging
Input Voltage Ranges	Continuously variable 40 mV to 40 V full scale	Continuously variable 16 mV to 40 V full scale	Continuously variable 8 mV to 40 V full scale	Continuously variable 8 mV to 40 V full scale	Continuously variable 8 mV to 40 V full scale	Continuously variable 16 mV to 40 V full scale	16 mV to 40 V full scale in 1: 2: 4: increments
Input Z, Coupling	1 MΩ internal; ac, dc	1 MΩ, 50 Ω internal; ac, dc	1 MΩ, 50 Ω internal; ac, dc	1 MΩ, 50 Ω internal; ac, dc	1 MΩ, 50 Ω internal; ac, dc	1 MΩ internal; ac, dc, ground	1MΩ, 50 Ω internal; ac, dc
Pulse Parameter Measure- ments	yes	yes	yes	yes	yes	yes	yes
Waveform Math	A + B, A - B, A × B, A vs B, invert, only	A + B, A - B, A × B, A vs B, invert, only	A + B, A - B, A × B, A vs B, invert, only	A + B, A - B, A × B, A vs B, invert, only	A + B, A - B, A × B, A vs B, integrate, differentiate, invert, only	A + B, A - B, XY, invert	A + B, A - B
Other Analysis Functions	Variable and infinite persistence, averaging, envelope	Variable and infinite persistence, averaging, envelope	Variable and infinite persistence, averaging, envelope	Variable and infinite persistence, averaging, envelope	Variable and infinite persistence, averaging, envelope	Autostore, peak detect, averaging	Infinite persistence, averaging
Waveform Storage	2 pixel, 4 waveforms	2 pixel, 4 waveforms	2 pixel, 4 waveforms	2 pixel, 4 waveforms	2 pixel, 4 waveforms	2 pixel	Store to built - in disk
Trigger Enhance- ments	Glitch, edge, pattern, state, digital delay by event and time, time-qualified pattern, TV	Glitch, edge, pattern, state, digital delay by event and time, time-qualified pattern, TV	Glitch, edge, pattern, state, digital delay by event and time, time-qualified pattern, TV	Glitch, edge, pattern, state, digital delay by event and time, time-qualified pattern, TV	Glitch, edge, pattern, state, digital delay by event and time, time-qualified pattern, TV	Edge, Autolevel, HF/LF reject, noise reject, TV	Edge, pattern, relay by event, immediate
Instant Hard-Copy and Disk Support	HP graphic printers	HP graphic printers, plotters	HP graphic printers, plotters	HP graphic printers, plotters	HP graphic printers, plotters	HP printers and plotters, Epson-compatible printers, Centronics printers	HP printers including PaintJet, 2 built - in disk drives
Other	Measurement statistics and limit test, dual time- base windowing, scroll mode	Measurement statistics and limit test, dual time- base windowing, scroll mode	Measurement statistics and limit test, dual time- base windowing, scroll mode	Measurement statistics and limit test, dual time- base windowing, scroll mode	Measurement statistics and limit test, segmentable memory via HP-IB, post-acquisition pan and zoom	Super-fast update rate, delayed sweep, roll mode, HP-IB and RS-232 I/O options, Centronics output option	Logic analysis, high-speed timing, pattern generation, multiple time bases (optional)
For More Information, Order Publication Number	HP 5954-2679(D)	HP 5091-0353 EUS	HP 5959-8795(D)	HP 5091-0353 EUS	HP 5952-2404(D)	HP 5091-2221 EUS HP 5091-2222 EUS HP 5091-2223 EUS	HP 5091-2195 EUS
Page Reference	153	152	151	150	149	154	159
Price	\$3,990	\$7,450	\$5,950	\$6,750	\$10,950	HP 54600A: \$2,395 HP 54601A: \$2,895	\$16,700 to \$52,700