U1600A Handheld &
U2700 USB Modular Oscilloscopes

1000 Series Oscilloscopes

5000 Series Oscilloscopes

6000 Series Oscilloscopes

6000L Series Oscilloscopes

Model comparison chart

	U1600	U2700	1000	5000	6000	7000	9000	90000A	86100C
Channels	2	2	2, 4	2, 4	2, 2+16, 4, 4+16	2, 2+16, 4, 4+16	4, 4+16	4	4
Bandwidth	20 MHz to 40 MHz	100 MHz to 200 MHz	60 MHz to 200 MHz	100 MHz to 500 MHz	100 MHz to 1 GHz	100 MHz to 1 GHz	1 GHz to 4 GHz	2.5 GHz to 13 GHz	Module dependent to 65 GHz optical, 90 GHz electrical
Sample rate	100 MSa/s	1 GSa/s	2 GSa/s	4 GSa/s	4 GSa/s	4 GSa/s	10 GSa/s	20 or 40 GSa/s on all 4 channels	40 kSa/s
Memory depth	10,000 pts.	32 MB, std.	20 kpts. std.	1 Mpts, std. Up to 8 Mpts, opt.	8 Mpts, std.	8 Mpts, std.	10 Mpts, std.	10 Mpts, std. Up to 1 Gpts, opt.	Configurable
Connectivity & storage	USB device, std. USB host, opt.	USB device, std.	USB device, std.	USB (device and host), GPIB, LAN, XGA-out, std.	USB (device and host), GPIB, LAN, XGA-out, std.	USB (device and host), LAN, XGA-out, std.	USB 2.0, LAN, I/O ports, RS-232, parallel, PS/2, dual monitor video, auxiliary output	USB 2.0 host and device, Gigabit Ethernet, std., GPIB, opt.	USB, GPIB, LAN, RS-232, VGA out, Centronics, std.
Waveform math & analysis	Waveform math and FFT. Complimentary PC link software. USB cable can be used to quickly transfer data to a PC for further post-processing and analysis.	Waveform math and FFT. Data can easily be transferred to an external PC for further post-processing and analysis.	Waveform math and FFT. Data can easily be transferred to an external PC for further post-processing and analysis.	Waveform math and FFT. Data can easily be transferred to an external PC for further post-processing and analysis.	Waveform math and FFT. Data can easily be transferred to an external PC for further post-processing and analysis.	Waveform math and FFT. Data can easily be transferred to an external PC for further post-processing and analysis.	Waveform math, FFT, jitter clock, QuickMeas, statistics, eye pattern.	Waveform math, FFT, jitter, eye pattern, protocol decode, standard bus compliance, user-definable function via MATLAB (opt). Windows XP based system.	TDR, S-Parameters, eye diagram analysis, advanced jitter and amplitude analysis, phase noise analysis application, MATLAB opt.
Market	Hand-held scope for installation and maintenance in the industrial automation, automotive and A/D industries.	Portable scope ideal for electronics troubleshooting and functional test as well as educational teaching and research labs. Also suitable for road warriors.	Portable economy scope ideal for low-speed design and debug as well as educational teaching and research labs.	General purpose portable scope ideal for embedded designs. Perfect for signal viewing and ideal for capturing intermittent glitches and signal transients.	High performance portable scope ideal for mixed signal and embedded designs also strong in automation applications. Ideal for signal viewing and for capturing intermittent glitches and signal transients.	High performance portable scope ideal for mixed signal and embedded designs. Large high-resolution display makes it the best scope for signal viewing and capturing intermittent glitches and signal transients. Comprehensive software suite provides insight into application-specific problems.	High-performance portable scope designed for engineers working on low-speed serial design or doing oscilloscope-centric testing with logic and protocol analysis.	High-performance real-time oscilloscope provides superior signal integrity. Addressing the needs for high-speed digital and RF applications. More than 20 applications for compliance, debugging, and analysis.	High-performance, high bandwidth multi-function sampling scope for serial bus applications, optical, TDR/TDT and any signal requiring advanced jitter analysis.

7000 Series Oscilloscopes

9000 Series Oscilloscopes

90000A Series Oscilloscopes

86100C DCA-J Series Oscilloscopes

Probes and Applications
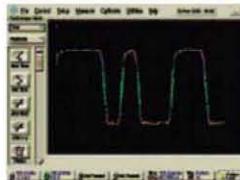
Full-function oscilloscope. Bandwidth of 65 GHz optical and > 90 GHz electrical ensures the most accurate waveform measurements.

Eye diagram analysis. Take advantage of the easiest and most intuitive method for viewing high-speed digital communications waveforms.
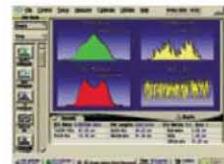
Advanced jitter analysis. Jitter mode decomposes jitter into its constituent components — a critical need as data rates increase — and presents jitter data in various insightful displays.
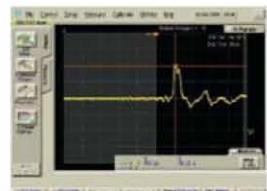
Time domain reflectometer. Measure both impedance and S-parameters and verify transmission quality for components and channels.

www.sanat-sharif.com/Comlab/aetm/ Oscilloscopes.pdf

USA