

Agilent U1600A Series Handheld Oscilloscopes



Full-featured handheld scope gives you maximum versatility for troubleshooting in the factory or field

- Use this dual-channel scope with built-in DMM and data logger capability for high-performance troubleshooting
- Capture glitches easily with flexible triggering and 200 MSa/s sampling rate
- Uncover subtle details with 125 KB memory per channel, zoom functions and large 4½" color LCD display
- Enhanced analysis with waveform math functions, and additional FFT capability on the U1604A
- Document results easily using the standard USB 2.0 interface
- Built-in USB host option available for quick saving into USB memory device



Ordering Information

U1602A
20 MHz Digital Handheld Oscilloscope

U1604A
40 MHz Digital Handheld Oscilloscope

INCLUDES: U1560A Scope Probe (1:1), U1561A Scope Probe (10:1), U1571A Ni-MH Battery Pack 7.2 V 4500 mA, U1580A DMM Test Lead, Ground Alligator Clip, Medium Jaw Alligator Clip, Hook Clip, USB Cable, Power Cord and AC Adapter, Quick Start Guide, Product Reference CD-ROM (includes User's and Service Guide, Quick Start Guide and PC Link Application software), Certificate of Calibration and Test Data

ACCESSORIES

- U1560A** Scope Probe (1:1) CAT III 300 V
- U1561A** Scope Probe (10:1) CAT III 600 V
- U1571A** Ni-MH Battery Pack 7.2 V 4500 mA
- U1580A** DMM Test Lead
- U1590A** Soft Case
- U1562A** Scope Probe (100:1) CAT III 600 V with ground alligator clip

Features	U1602A	U1604A
3-in-1 function: Scope, DMM, Data-logger	Yes	Yes
Display	4.5" color display	4.5" color display
Oscilloscope channel count	2	2
Bandwidth	DC to 20 MHz	DC to 40 MHz
Maximum sampling rate	200 MSa/s	200 MSa/s
Maximum memory depth	125 KB/channel	125 KB/channel
Cursor and zoom functions	Yes	Yes
Dual waveform math	CH1 + CH2, CH1 - CH2, CH2 - CH1	CH1 + CH2, CH1 - CH2, CH2 - CH1
FFT	No	Yes (Rectangular, Hamming, Hanning, Blackman-Harris)
Internal scope storage	Up to 10 setups and traces	Up to 10 setups and traces
Scope measurements	Up to 22 measurements	Up to 22 measurements
Coupling	AC, DC, GND	AC, DC, GND
Range	50 ns to 50 s/div	10 ns to 50 s/div
Rise time	< 17.5 ns	< 8.8 ns
Resolution	2 ns	400 ps
Input impedance	1 M Ω <20 pF	1 M Ω <20 pF
Triggering	Edge, Pattern, Pulse Width, Video	Edge, Pattern, Pulse Width, Video
Trigger modes	Auto, normal, single	Auto, normal, single
Probes	1:1 and 10:1 (standard); 100:1 (orderable)	1:1 and 10:1 (standard); 100:1 (orderable)
Digital multimeter full scale reading	6000 count	6000 count
DC voltage, True RMS AC Voltage	Max 600 V	Max 600 V
Resistance	Max 60 M Ω	Max 60 M Ω
Capacitance	Max 300 μ F	Max 300 μ F
Data logger recordable method	Minimum, Maximum, Average	Minimum, Maximum, Average
Record size	250 points	250 points
Time span	Auto range 150 s to 20 days	Auto range 150 s to 20 days
USB host capability for external memory	Optional	Optional
Connectivity	USB 2.0 Full Speed	USB 2.0 Full Speed
Battery	7.2 V Ni-MH rechargeable battery	7.2 V Ni-MH rechargeable battery
Safety Compliance	CAT III 300 V, CSA, UL, CE	CAT III 300 V, CSA, UL, CE
Warranty	3 years	3 years
Price from (US)	\$1,321	\$1,651

Pricing and technical data subject to change without notice.

© Agilent Technologies, Inc. 2007, Printed in U.S.A. August 10, 2007