

Agilent U1600A Series Handheld Digital Oscilloscopes

Data Sheet

Delivering the most functionality and performance in their class of handheld oscilloscope

Features

- Three-in-one solution: Dual channel oscilloscope, True RMS DMM and Real-Time Data Logger
- Large 4.5" color LCD display
- Up to 40 MHz bandwidth with advanced triggering
- Up to 200 MSa/s sampling rate
- 125 kilobytes/channel of waveform memory depth
- 6000 count DMM resolution with 22 automatic measurement functions
- 125 kilobytes/channel of waveform memory depth
- 11 built-in measurement functions including voltmeter, ohmmeter and auxiliary meter
- Dual Waveform Math functions (additional FFT function with four windowing techniques available in U1604A)
- Full remote control and data transfer via PC Link application software
- USB 1.1 full speed interface connectivity
- Multi-language Quick Help support



Introduction

The U1600A series handheld digital oscilloscope has a 4.5-inch LCD color display that is capable of clearly distinguishing waveforms between two channels. This U1600A series offers a high performance troubleshooting and quality assurance tool for technical professionals in the installation, maintenance, service and automotive industries. The U1600A series consists of two models: U1602A - 20 MHz oscilloscope and U1604A - 40 MHz oscilloscope. Each model has real time sampling rate of up to 200 MSa/s. Users can use the Dual Waveform Math (DWM) and Fast Fourier Transform (FFT) functions (in U1604A) to perform quick waveform analysis in both time and frequency domains. The built-in 6000 resolution count true RMS digital multimeter (DMM) comes with auto-range feature that gives users the flexibility to perform quick and accurate meter measurement functions inclusive of voltage, resistance and auxiliary



measurements. In addition to this, the U1600A series also comes standard with data logging functionality that allows users to consolidate a sequence of data points for data recording purposes.

A scope, true RMS DMM and realtime data logger in one instrument

The U1600A series is a robust, high performance and reliable handheld waveform and meter measurement tool for today's challenging industrial environment. This instrument not only provides full featured oscilloscope functions, but a 6000 count true RMS DMM with real-time data logger. The DMM consists of 11 measurement functions including voltmeter (for DC voltage, AC voltage, true RMS AC + DC voltage measurements), ohmmeter (for 2wire resistance, capacitance, diode and continuity test) and auxiliary meter (for temperature, ampere, humidity and pressure measurements).



Clearly distinguish your waveform

The U1600A series models comes with a color display to allow you to quickly and clearly identify your signal between two channels. The large size LCD display – 4.5" with 320 x 240 resolution extends the simplicity and makes it easier for you to see more information.

Capture signal deviations, glitches and dropouts effectively

The U1600A series offers the best product specification for users. This instrument provides real-time sampling rate of up to 200 MSa/s – 8 times the sampling rate of competitive handheld digital oscilloscope in its class. Use U1600A series to capture both instantaneous and repetitive signal anomalies effectively.

High precision zoom-in capability in deep memory

Up to 250 times the memory depth of competitive handheld digital oscilloscope in this class. With 125 kilobytes of memory depth per channel, now you can capture long time spans and non-repeating signals while maintaining a maximum sampling rate of 200 MSa/s. Deep memory allows you to quickly zoom in the segment of interest and uncover even the most subtle details of the signal at a given time base setting.

Isolate and analyze the signal you want to see

The U1600A series comes with flexible triggering capabilities that allows you to isolate and capture the condition you want to characterize. The advanced triggering includes edge, pulse width, pattern and video signal triggering that are essential for quick isolation of critical events.

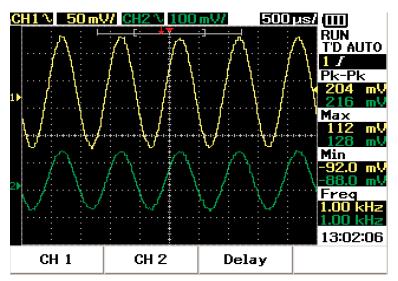


Figure 1 High-definition of color resolution in large 4.5" LCD display allows you to quickly distinguish and identify your signals and observe signal activity.

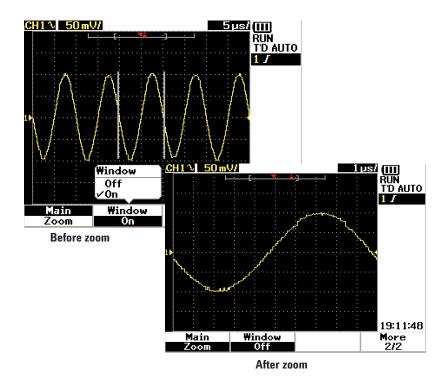


Figure 2 With deep memory of 125 kilobytes per channel, use the zoom-in function to magnify signal to the segment of your interest and scrutinize subtle details of your signal.

FFT (U1604A only) and Dual Waveform Math functions for waveform analysis

Besides the standard Dual Waveform Math (DWM) function in U1600A series, the U1604A model is equipped with an FFT (Fast Fourier Transform) function. This function allows you to view the waveform in frequency domain using four windowing techniques (Rectangular, Hanning, Hamming, Blackman-Harris). Use the DWM function to perform math functions for signal addition and subtraction from multiple channels.

Easy, straightforward connectivity

The U1600A series expands the oscilloscope's capability with the PC Link application software that caters for data gathering, storage and documentation needs from instrument via USB 1.1 full speed. You can control the intstrument remotely from PC, retrieve your waveform and print it using a connected printer. This PC Link application software is bundled with the purchase of any U1600A series. As an option, you can connect a USB flash drive via the USB host port to store your waveform and configuration setup from the instrument.

Built-in multi-lingual Quick Help menu provides instant assistance

Need assistance while operating the instrument? The built-in multi-lingual Quick Help menu helps to minimize downtime in the event that you need help to set up scope and DMM functions. The supported languages include English, German, Italian, Spanish, Portuguese, French, Korean, Traditional Chinese, Simplified Chinese and Japanese.

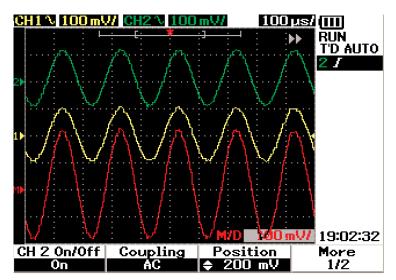


Figure 3 The U1600A series comes equipped with DWM features, allowing you to perform spectrum analysis and evaluate signal addition and subtraction from multiple channels.

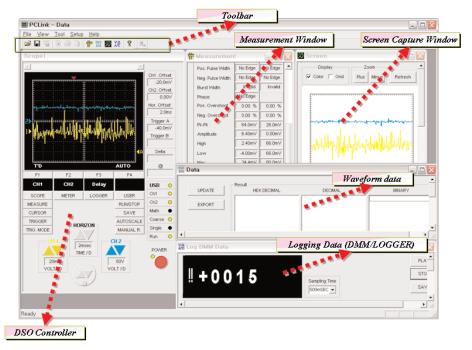


Figure 4 The U1600A series comes with a PC Link application software that caters for data gathering, storage and documentation needs via USB full speed remote control from PC.

The U1600A Series Features

Oscilloscope Mode

The U1600A series handheld digital oscilloscopes offers the following standard and advanced features to make your analysis and troubleshooting tasks easier and faster.

Deep memory

The U1600A series comes standard with 125 kilobytes of memory depth, nearly 250 times the memory depth of competitive handheld digital oscilloscope in this class.

Autoscale

Autoscale enables the instrument to quickly display any active signals, and automatically adjust the vertical and horizontal settings with trigger control for the best signal display.

Dual Waveform Math (DWM) and Fast Fourier Transform (FFT)

The U1600A series offers analysis functions including addition and subtraction for DWM, as well as FFT with four windowing techniques (Rectangular, Hanning, Hamming and Blackman-Harris). FFT functions is only available for the U1604A model.

Cursor measurement

Use cursor function to manually or automatically place readout of the waveform's voltage at any desired vertical or horizontal point.

22 automatic measurements

Up to 22 automatic available measurements. You can make and display four different measurements simultaneously.

Advanced triggering

Advanced triggering includes edge, pulse width, pattern and video to help you isolate the signal you want to see.

Easy connectivity

The PC Link application software is bundled with the purchase of any U1600A series handheld digital oscilloscope. This software provides flexibility for data gathering, storage and documentation needs via USB connectivity. USB flash drive is also available to you as an option to save and retrieve configuration setups or waveforms to and from the USB flash drive.

Save and recall waveform and setup memories

Up to 10 waveforms and configuration setups can be stored and recalled at anytime for future use and reference.

Logger mode

The U1600A series allows you to customize your data logging for any DMM measurement. This sophiscated function allows you to record and consolidate a sequence of data points for data plotting purposes.

Digital Multimeter (DMM) Mode

Auto-range

All meter measurements come in auto-range mode – instrument will auto-select the most appropriate range for measurement.

Voltmeter

Voltmeter measurement includes DC voltage, AC voltage and AC+DC voltage with automeasurement of minimum, maximum and average value.

Ohmmeter

Ohmmeter measurement consists of resistance, capacitance, diode test and continuity test. The automeasurement of minimum, maximum and average value applies only to resistance and continuity test.

Auxiliary meter

Auxiliary meter involves temperature, ampere, humidity and pressure measurements. Similary, the auto-measurement of minimum, maximum and average value is also available in this mode.

SCOPE SPECIFICATIONS[1]

Vertical System : Scope Chai	nels
Bandwidth (–3 dB)	U1602A : DC to 20 MHz U1604A : DC to 40 MHz
DC Vertical Gain Accuracy	5 mV/div: ± 4% full scale 10 mV/div to 100 V/div: ± 3% full scale
Scope Channel Triggering	
Trigger Sensitivity	DC to 50 MHz: 0.5 divisions U1602A: 5 MHz to 20 MHz — 1 division U1604A: 5 MHz to 40 MHz — 1 division

SCOPE CHARACTERISTICS^[2]

Acquisition : Scope Channels		
Maximum Sampe Rate	U1602A : 200 MSa/s interleaved, 100 MSa/s each channel (50 s/div to 125 ns/div) U1604A : 200 MSa/s interleaved, 100 MSa/s each channel (50 s/div to 250 ns/div)	
Equivalent Sample Rate	U1604A : 2.5 GSa/s (125 ns/div to 10 ns/div)	
Vertical Resolution	8 bits	
Maximum Memory Depth	125 kilobytes/channel	
Peak Detection	5 ns	
Average	Selectable in average number of 2, 4, 8, 16, 32, 64, 128, 256	

Vertical System: Scope Channels

Analog Channels	Channel 1 and Channel 2 simultaneous acquisition		
Bandwidth (–3 dB)	U1602A: DC to 20 MHz		
	U1604A: DC to 40 MHz		
AC coupled	< 10 Hz without probe		
Rise time	U1602A: < 17 ns		
	U1604A: < 8 ns		
Single shot bandwidth	U1602A : 20 MHz		
	U1604A : 40 MHz		
Range	5 mV/div to 100 V/div		
Maximum input	CAT III 300 Vrms		
Offset/Dynamic range	± 5 div		
Input impedance	1 MΩ < 20 pF		
Coupling	AC, DC, GND		
Probes	U1560-60001 : 500 MHz 1:1 passive probe		
	U1561-60001 : 500 MHz 10:1 passive probe		
Probe attenuation factors	1x, 10x, 100x		
Coupling	3 Vp-p, ~ 1 kHz		
Maximum probe input	1x CAT III 300 VAC		
	10x, 100x CAT III 600 VAC		
Noise peak-to-peak	3% of full scale or 5 mV, whichever is greater		
DC vertical offset accuracy	±0.1 div ±2 mV ±0.5% offset value		
Single cursor accuracy	4% full scale		
Dual cursor accuracy	4% full scale		

^[1] All specifications are warranted. Specifications are valid after a 30 minutes warm-up period and within \pm 10 °C from firmware calibration temperature.

^[2] All characteristics are typical performance values and are not warranted. Characteristics are valid after a 30 minutes warm-up period and within \pm 10 °C from firmware calibration temperature.

Horizontal System				
Range		U1602A : 50 ns to 50 s/div U1604A : 10 ns to 50 s/div		
Resolution		U1602A : 2 ns		
Reference position		U1604A : 400 ps Left, center, right		
Delay range (pre-trigger)		15 divisions		
Delay range (post-trigg	er)	1000 divisions		
Analog delta-t accuracy Modes		± 3%		
		Main, XY		
RMS Jitter		2% of horizontal scale or 5 ns whichever is higher		
Trigger System				
Source		Channel 1 and Channel 2		
Modes		Auto, normal, single, roll		
Selections	Edge	Edge, pulse width, pattern, video Trigger on a rising or falling edge of any source.		
	Pattern	Trigger at the beginning of a pattern of high, low levels and rising or falling edge established conditions of AND, OR, NOR and NAND between the channels.		
	Pulse width	200 ns to 10 s. Trigger when a positive or negative pulse width of any source larger than, less than, equal to or not equal to duration.		
	Video	Video trigger sensitivity : 0.7 division trigger level. Available to both Channel 1 and Channel 2. Analog progressive and interlaced video standards including NTSC, PAL and SECAM. Positive or negative sync pulse polarity. Modes — all fields, even fields, odd fields or any line within a field.		
Range		± 4 divisions from center screen		
Level accuracy		± 0.4 divisions		
Trigger sensitivity		DC to 5 MHz : 0.5 divisions U1602A : 5 MHz to 20 MHz — 1 division U1604A : 5 MHz to 40 MHz — 1 division		
Coupling		DC, AC (< 1 Hz), HF reject (> 50 kHz), LF reject (<30 kHz), Noise reject		
Measurement Syste	m			
Autoscale		Finds and displays all active scope channels, sets edge trigger mode on highest numbered channel, sets vertical sensitivity on scope channel. Requires voltage > 20 mVp-p, 0.5% duty cycle and frequency > 100 Hz.		
Automatic measureme	nt	Measurements continuously updated.		
Voltage		Peak-to-peak, maximum, minimum, amplitude, top, base, +overshoot, -overshoot, preshoot, RMS, mean and one cycle mean.		
Time		Frequency, period, +width, –width and +duty cycle and –duty cycle on any channel. Rise time, fall time, delay and phase shift.		
Cursors		Manually place readout of horizontal (X, ΔX) and vertical (Y, ΔY).		
Waveform math		CH1 + CH2, CH1 – CH2, CH2 – CH1		
FFT ^[1]				
Window		Rectangular, Hamming, Hanning, Blackman-Harris		
Amplitude Display		Selectable in amplitude display of 1 dB, 2 dB, 5 dB, 10 dB		

^[1] FFT function is only available for U1604A model.

DIGITAL MULTIMETER SPECIFICATIONS[1] ± (% of reading + % of range)

DC Voltage	Function	Range	Frequency, Test Current or	1 year Tcal ±5°C
6.000 V 0.3 ± 0.08			Burden Voltage	
60,00 V	DC Voltage			
AC Voltage 600.0 mV - 600.0 V 150 Hz - 1 kHz 30 + 0.2 1 kHz 30 + 0.2 AC + DC Voltage 6.0000 V - 600.0 V 160 Hz - 1 kHz 30 + 0.2 AC + DC Voltage 6.0000 V - 600.0 V 150 Hz - 1 kHz 30 + 0.2 AC + DC Voltage 6.0000 V 160 Hz 1 kHz 30 + 0.2 AC + DC Voltage 7.0 kHz 30 + 0.2 AC + DC Voltage 7.0 kHz 30 + 0.2 AC + DC Voltage 7.0 kHz 30 + 0.2 AC + DC Voltage 7.0 kHz 30 + 0.2 AC + DC Voltage 7.0 kHz 30 + 0.2 AC + DC Voltage 7.0 kHz 30 + 0.2 AC + DC Voltage 7.0 kHz 30 + 0.2 AC + DC Voltage 7.0 kHz 30 + DC Voltage 7.0				
1 kHz − 30 kHz		600.0 V		0.3 + 0.08
AC + DC Voltage	AC Voltage	600.0 mV - 600.0 V		
Resistance 60.0 Ω Ω	AC + DC Voltage	6.0000 V - 600.0 V	50 Hz – 1 kHz	0.75 + 0.2
60.00 kΩ 0.5 + 0.2 60.00 MΩ 0.5 + 0.2 60.00 MΩ 0.5 + 0.2 60.00 MΩ 1.0 + 0.2 60.00 nF 2.0 nF 2.0 nF 60.0	Resistance		T KITE OF KITE	0.5 + 0.2
600.0 kΩ 0.5 + 0.2 6.000 MΩ 0.5 + 0.2 6.000 MΩ 1.0 + 0.2				
\$60.00 MΩ				0.5 + 0.2
Capacitance 60.00 nF 60.00 nF 60.00 μF 300.0 μF 2.0 + 0.2 2.0 + 0.2 2.0 + 0.2 Diode 1.000 V 0.5 mA 2.0 + 0.08 Measurement Characteristics Full scale reading 6000 count DC voltage, True RMS AC Voltage Maximum input voltage, 600 Vrms CAT II, 300 Vrms CAT III DC coupled input coupling Continuity Beeper < 60 Ω in 600 Ω range				
Source Digital multimeter measurements		ου.υυ ΙνιΩ		1.0 + 0.2
6000 nF 2.0 ± 0.2 300.0 μF 2.0 ± 0.2 2.0 ± 0.2 2.0 ± 0.2 2.0 ± 0.2 2.0 ± 0.2 300.0 μF 2	Capacitance			
Diode 1.000 V 0.5 mA 2.0 + 0.08				
Diode 1.000 V 0.5 mA 2.0 + 0.08 Measurement Characteristics Full scale reading 6000 count DC voltage, True RMS AC Voltage Maximum input voltage, 600 Vrms CAT II, 300 Vrms CAT III DC coupled input coupling Continuity Beeper < 60 Ω in 600 Ω range DATA LOGGER Source Digital multimeter measurements Range 10 divisions Record size 250 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display System Display Quity Quity (Contrast control), infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable) Storage		60.00 μF		
Measurement Characteristics Full scale reading 6000 count DC voltage, True RMS AC Voltage Maximum input voltage, 600 Vrms CAT II, 300 Vrms CAT III DC coupled input coupling Continuity Beeper < 60 Ω in 600 Ω range		300.0 μΕ		2.0 + 0.2
Full scale reading 6000 count DC voltage, True RMS AC Voltage Maximum input voltage, 600 Vrms CAT II, 300 Vrms CAT III DC coupled input coupling Continuity Beeper < 60 \(\Omega \) in 600 \(\Omega \) range DATA LOGGER Source Digital multimeter measurements Range 10 divisions Record size 250 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable)	Diode	1.000 V	0.5 mA	2.0 + 0.08
DC voltage, True RMS AC Voltage Maximum input voltage, 600 Vrms CAT II, 300 Vrms CAT III DC coupled input coupling DATA LOGGER Source Digital multimeter measurements Range 10 divisions Record size 250 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable)	Measurement Characteristic	s		
DC coupled input coupling Continuity Beeper < 60 Ω in 600 Ω range DATA LOGGER Source Digital multimeter measurements Range 10 divisions Record size 250 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable)	Full scale reading	6000 count		
DATA LOGGER Source Digital multimeter measurements Range 10 divisions Record size 250 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable)	DC voltage, True RMS AC Voltage	Maximum input vo DC coupled input	oltage, 600 Vrms CAT II, 300 Vrms CAT III coupling	
Source Digital multimeter measurements Range 10 divisions Record size 250 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable)	Continuity	Beeper $<$ 60 Ω in 6	600 Ω range	
Source Digital multimeter measurements Range 10 divisions Record size 250 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable)				
Range 10 divisions Record size 250 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable) Storage				
Record size Z50 points Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable)	Source		r measurements	
Time span Auto range 150 seconds to 20 days Time reference Time from start Record method Selectable minimum, maximum and average Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable)	Range	10 divisions		
Time reference Record method Selectable minimum, maximum and average Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable) Storage	Record size	250 points		
Record method Selectable minimum, maximum and average Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable) Storage	Time span	Auto range 150 se	econds to 20 days	
Display System Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable) Storage	Time reference	Time from start		
Display 4.5-inch diagonal color CSTN LCD Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable) Storage	Record method	Selectable minim	um, maximum and average	
Resolution 320 x 240 pixels Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable) Storage	Display System			
Control Contrast control, infinite persistence on/off Build-in help system Functional help displayed by pressing help button Real time clock Time and date (user adjustable) Storage	Display	4.5-inch diagonal d	color CSTN LCD	
Build-in help system Functional help displayed by pressing help button Time and date (user adjustable) Storage	Resolution	320 x 240 pixels		
Real time clock Time and date (user adjustable) Storage	Control	Contrast control, infinite persistence on/off		
Storage	Build-in help system	Functional help dis	splayed by pressing help button	
	Real time clock	Time and date (user adjustable)		
Save/Recall (non-volatile) Up to 10 setups and traces	Storage			
	Save/Recall (non-volatile)	Up to 10 setups ar	nd traces	

^[1] For temperature between 0 $^{\circ}$ C to 18 $^{\circ}$ C and 28 $^{\circ}$ C to 50 $^{\circ}$ C , add 0.1x of reading + 0.02% of range for every degree Celsius.

GENERAL CHARACTERISTICS

Power Adapter

Line voltage range 50/60 Hz, 100 – 240 VAC Output voltage 12 VDC

Battery

Ni-MH rechargeable battery pack 7.2 V / 4500 mAH

Operating time: 4 hours

Charging time: 6 hours, measurement unit off

Allow ambient temperature during charging : 10 °C to 40 °C

Operating Environment

Temperature	Operating full accuracy	$0^{\rm o}{\rm C}$ to $50^{\rm o}{\rm C}$
	Non-operating	$-20~^{\rm o}{\rm C}$ to $70~^{\rm o}{\rm C}$
Humidity	Operating full accuracy	80% RH at 40 °C
Altitude	Operating	Up to 2000 m
	Non-operating	15000 m (50000 ft)
ESD tolerance	± 4 kV	

Safety Compliance

IEC 61010-1 second edition

Pollution degree 2

This instrument is rated for indoor use only.

Dimension (HxWxD)

13.8 cm width x 24.1 cm x 6.6 cm depth

Weight

1.5 kg

I/0

USB 1.1 host and client. Firmware upgrade through USB.

WARRANTY

1 year + 2 years extended (optional)

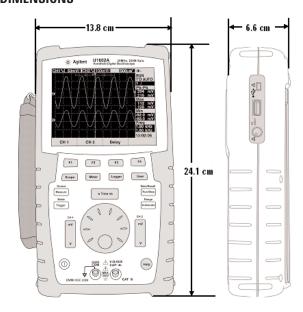
Accessories included:

- · Scope probe (1:1) CAT III 300 V
- Scope probe (10:1) CAT III 600 V
- Ground alligator clip
- · DMM test lead
- · Hook Clip
- · Medium jaw alligator clip
- · USB cable
- · Power cord and AC adapter
- · Ni-MH battery pack 4500 mA
- · Quick Start Guide
- · Product Reference CD-ROM containing User's and
- Service Guide, Quick Start Guide and PC Link Application Software
- · Certificate of Calibration (CoC)
- · Test Report

Optional Accessories:

- · Soft casing
- Scope probe (100:1) CAT III 600 V with ground alligator clip

DIMENSIONS



Agilent Optional Accessories



Soft casing



Scope probe (100:1) CAT III 600 V with ground alligator clip



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Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you receive your new Agilent equipment, we can help verify that it works properly and help with initial product operation.

Your Advantage

Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and onsite education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

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