Retool Your Expectations

For more than 70 years, Keysight has been creating innovative measurement solutions. In recent years, we’ve been applying our tradition of innovation to handheld tools for electrical and electronics testing. Today, these tools are ready for the real-world conditions you face every day—and many offer unique functions such as:

- Clear readouts from a high contrast OLED display
- Continuity checks with audible and flashing alerts
- Low-light troubleshooting with a built-in flashlight

We’re always looking for ways to simplify your day-to-day work. As we continue to develop innovative handhelds, you may start to feel like we do: It’s a good time to retool your expectations.

Keysight Remote Link Solution

Measure further, easier and faster. By simply attaching the U1177A/U1117A IR-to-Bluetooth® adapter to the IR port of a Keysight handheld meter, you’ll get instant wireless Bluetooth connection setup. The new U1117A IR-to-Bluetooth adapter and U1115A remote logging display allow you to safely measure, view and log test measurements with an extended range of up to 100 meters. What’s more, you can now log and monitor data on more display devices such as the U1115A remote logging display, iOS/Android smart devices or on a Windows PC.

Features

- Extended measurement distance of up to 100 meters
- View readings of up to four handheld meters simultaneously
- Compatible across all existing Keysight U1200 series handheld meters
- 60,000 points interval loggings
- Download logged data to a PC via Bluetooth connections
- Micro USB external power ports
- Indoor and outdoor viewing modes

1. U1115A

For the U1177A IR-to-Bluetooth adapter

Keysight wireless remote connectivity solution
The Keysight U5850 Series TrueIR thermal imagers

Detect abnormalities sooner with higher resolution thermal images within the camera. The U5850 series TrueIR thermal imagers give you an in-camera fine resolution of 320x240 pixels from a 160 x 120 pixels detector.

Our solution provides clearer, sharper thermal images so problems can be detected sooner. Now you can easily capture, save and monitor temperature changes overtime with 0.07 °C thermal sensitivity. What’s more, you can capture more images without straining your hands with the ergonomically designed TrueIR thermal imager.

Features
- Identify abnormalities faster with four times more in-camera fine resolution
- Monitor temperature changes through image logging and temperature trending capabilities
- Ability to focus on objects as close as 10 cm away
- Compact, lightweight, ergonomic
- High temperature range (up to 1200 °C)
- Easy-to-use customizable color palette
- Configurable quick access buttons to easily change settings with one hand

The Keysight U1450A/60A Series insulation resistance testers

Accomplish more in a day’s work with the Keysight U1450A/U1460A series insulation resistance testers. By adding Bluetooth connectivity to these handhelds, you are able to perform tests remotely using a Windows PC or on iOS/Android smart devices. Also, get test reports generated automatically with the insulation resistance testers’ complimentary reporting software. All five models are certified to IP 67 and tested to withstand drops of up to three meters (10 feet), letting you carry out tests with full confidence even in harsh working conditions. What’s more, you can perform various measurements with the built-in digital multimeter and adjust test voltages from 10 V to 1.1 kV with 1 V step on selected models to test unique applications.

Features
- Wireless insulation resistance testing via PC and smart phone/tablet applications
- Automatic test report generation
- 50 V/100 V/250 V/500 V/1000 V test voltages
- Measure up to 260 GΩ
- Timed/PI/DAR test
- Adjustable test output voltage from 10 V to 1.1 kV
- 4.5 digit DMM with OLED display, basic and full featured
- IP 67 certified, three meter (10 feet) drop proof
- CAT III 1000 V/CAT IV 600 V overvoltage protection
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection
The Keysight U1230 Series handheld digital multimeters

Whether it’s dark, noisy or even dangerous, the U1230 Series handheld digital multimeters keep you equipped with features that anticipate worst-case scenarios. The ergonomic shaped handheld allows you to single-handedly illuminate the test area with a built-in flashlight while making measurements. You can select measurement function using the easily accessible rotary dial. Vsense performs non-contact AC voltage detection while continuity detection is made easy with the audible beeper alert and flashing backlight display. With the U1230 Series, you work better in the conditions you are in.

Features
- Built-in LED torchlight to illuminate test area
- Flashing backlight as additional visual alert during continuity tests in noisy areas
- Vsense to perform non-contact voltage detection (only in U1233A)
- Data logging capability (stores up to 10 readings)
- IR-to-USB connectivity to transfer data to PC for record
- CAT III 600 V overvoltage protection
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection

The Keysight U1240B Series digital multimeters

Installation and maintenance of machinery, electrical systems and more often require numerous quick checks and fixes, sometimes under hazardous conditions. Whether you need to quickly inspect power supplies for harmonics, detect glitches in switch systems or monitor differential temperature, the U1240B Series of handheld digital multimeters (DMMs) is up to the task. With all you need in one portable instrument, you can travel light and finish the day’s work with ease. Plus, you’ll be glad to know it’s easy to own one, even with the DMM’s rich capabilities.

Features
- Low micro-amp and high Mega-Ω ranges
- Switch/Relay counter for glitch detection
- Harmonic ratio measurement in AC supplies
- Dual and differential temperature measurements
- Data logging to instrument on the go
- Includes additional 4-mm tip probes and Certification of Calibration
- CAT III 1000 V / CAT IV 600 V overvoltage protection
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection
The Keysight U1240C Series handheld digital multimeters

The ultimate goal for technicians and industrial test engineers is to keep the production line running seamlessly to prevent unplanned shutdown. The strong and solid U1240C Series handheld digital multimeters (DMMs) are the tools you need to work efficiently. Certified to IP 67 and tested to withstand up to 3-meter (10 feet) drop to suit harsh working environments, these durable DMMs can even work longer for you with up to 400 hours of battery life. Better yet, you can optimize productivity with the unique remote data logging functionality designed to run seamlessly with the DMM. Perform test confidently and efficiently—everything you need to get the job done.

Features
- 10,000-count dual display
- Up to 0.09% basic DCV accuracy
- Longer battery life up to 400 hours
- Certified to IP 67 for water and dust protection and tested to withstand a 3-meter (10-ft) drop
- CAT III 1000 V / CAT IV 600 V overvoltage protection
- Built-in harmonic ratio\(^1\), low impedance mode\(^1\), Vsense\(^1\) for non-contact voltage detection, T1 – T2 differential temperature\(^1\) measurement and built-in flashlight
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection

1. U1242C only

The Keysight U1250 Series digital multimeters

The process of isolating faults is always unpredictable—so it’s good to be equipped with a versatile DMM that simplifies analysis, accelerates glitch detection and makes it easier to probe hard-to-reach points. Optimize electronics troubleshooting with the accuracy, capabilities, and accessories you need to get started in no time.

Features
- High contrast ratio of 2000:1 and wide viewing angle of 160°C\(^1\)
- 50,000 counts high resolution and up to 0.025% low error rate
- Built-in square-wave generator and frequency counter
- Includes all essential accessories for electronics troubleshooting
- Smoothing function to stabilize erratic readings\(^1\)
- Includes additional 4-mm tip probes and Certification of Calibration
- Data logging to instrument and PC
- CAT III 1000 V / CAT IV 600 V overvoltage protection
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection

1. With U1253B
Handheld Digital Multimeter (continued)

The Keysight U1270 Series handheld digital multimeters

The U1273AX, the latest addition to the U1270 Series is capable of operating down to –40 °C in temperature. Even in extremely cold conditions, the U1273AX handheld DMM delivers immediate and accurate results—no warm-up time required. All models are ergonomically-built providing useful functions such as Z_LOW, which eliminates stray voltages, and Smart Ω that minimizes false readings from residual voltage induced by leakage current. All of this is designed into a case that fulfills the needs of today’s industrial handheld users.

Features
- OLED display with 2000:1 contrast ratio and 160 degree viewing angle
- 30,000 counts resolution
- Measure up to 1000 V AC/ DC and 10 A (20 A for 30 s)
- Resistance, diode test, temperature, capacitance
- Low Impedance mode and Low Pass Filter
- –40 to 55 °C operating temperature
- Data logging to instrument and PC
- Water and dust resistance (IP 54)
- CAT III 1000 V / CAT IV 600 V overvoltage protection
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection

1. U1273A
2. U1273AX
3. U1272A

The Keysight U1280 Series handheld digital multimeters

Gain the confidence to achieve trustworthy measurements thanks to the precision, accuracy and repeatability of the Keysight U1280 series handheld digital multimeters (DMM). Get the precise measurements you’d need with 60,000-count display resolution and 0.025% accuracy. With the Handheld Meter Logger software, swiftly capture individual measurements, generate reports and log trends with the touch of a button. Plus, with up to 800 hours of battery life, you can count on your DMM to perform when you need it.

Features
- 60,000-count dual display
- Up to 0.025% basic DCV accuracy
- Longer battery life up to 800 hours
- Certified to IP 67 for water and dust protection and tested to withstand a 3-meter (10-ft) drop
- CAT III 1000 V / CAT IV 600 V overvoltage protection
- Built-in Vsense1 for non-contact voltage detection, square wave output
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection

1. U1282A only
The Keysight U1190 Series handheld clamp meters

Keysight’s U1190 Series clamp meters are packed with a wealth of features to help you work more efficiently and more safely. Housed in robust cases, each model comes with an innovative wire separator that helps you isolate and measure individual wires in a bundle. The built-in LED flashlight illuminates your test area and Vsense performs non-contact voltage detection. The clamp meters are also CAT III 600 V and CAT IV 300 V rated to cover wider measurement categories.

Features
- Unique wire separator to separate wires in a bundle
- Vsense1 performs non-contact voltage detection
- Built-in LED flashlight 1 to illuminate test area
- Visual (backlight alert) and audible continuity indication in noisy environments
- Current measurement up to 600 A 2
- Digital multimeter (DMM) with Resistance, Capacitance 1, Continuity, Diode test, DCV, ACV, DACA3, ACA, DCµA3 and ACµA3 measurement capabilities
- CAT III 600 V/CAT IV 300 V overvoltage protection

1. U1192A, U1193A, U1194A only
2. U1193A and U1194A only
3. U1194A only

The Keysight U1210 Series handheld clamp meters

Measurements of electrical distribution cables can be challenging and risky. For cables up to two inches in diameter, the Keysight U1210 Series handheld clamp meters enable high-current measurements without breaking the circuit. Unlike most clamp meters, they also include DMM capabilities—resistance, capacitance, frequency and temperature—to simplify troubleshooting during installation and maintenance. Best of all, they provide an extra layer of protection with CAT IV 600 V and CAT III 1000 V safety ratings.

Features
- Large clamp opening of 52 mm or 2 inches
- High measurement capability of up to 1000 A for AC, DC or AC+DC
- CAT III 1000 V/CAT IV 600 V overvoltage protection
- Includes full-featured DMM with resistance, capacitance, frequency and temperature functions
- For Keysight Remote Link solution, add on optional U1117A Infrared (IR)-to-Bluetooth adapter to get instant wireless Bluetooth connection

Handheld Multi-Function Calibrator/Meter

The Keysight U1401B multi-function calibrator/meter

More often than not, the calibration of process control parts requires simultaneous measurements with a DMM. Carry two tools in one—and calibrate while you measure—with the Keysight U1401B handheld multi-function calibrator/meter. Now you can travel light, whether you’re doing calibration for validation, troubleshooting, or service and maintenance. Slip the robust U1401B in its sturdy carrying case and you’re ready to go.

Features
- Simultaneous source and measure capabilities
- Bipolar voltage and current, square-wave, auto scan and ramp outputs
- Full-span DMM measurement and recording functions
Handheld Digital Oscilloscopes

The Keysight U1600 Series digital oscilloscopes

A scope with a color waveform display. A DMM for basic measurements. A data logger to record DMM readings to a PC. All three capabilities are in one instrument—the U1600 Series of handheld digital oscilloscopes. Designed to address the portability needs of various installation and maintenance applications, these scopes enable clear waveform viewing, easy waveform analysis and quick isolation of signal glitches. With high-performance features loaded into one robust package, mobile troubleshooting is a breeze.

Features
- Built-in DMM and data logger
- Large 4.5-inch color display
- 200 MSa/s high sampling rate and deep memory
- Built-in Quick Help, available in multiple languages
- Data logging to instrument and PC
- Convenient data download to USB flash drive

The Keysight U1610A/U1620A digital oscilloscope

The U1610A/U1620A is the world's first handheld oscilloscope with a VGA display. This 100/200 MHz handheld oscilloscope offers a floating measurement capability with two CAT III 600 V isolated channels. With up to 2 GSa/s sampling rate and 2 Mpts memory depth, it captures more waveforms from signals such as pulse width modulated circuit, in-rush, transient, and motor start up sequences. Engineered with a benchtop-like display and dual window zoom function, it easily identifies problem areas and zoom in for more detailed analysis. With these, you can now view signals in detail and detect glitches easily.

Features
- 100/200 MHz bandwidth with isolated channels
- 5.7-inch VGA TFT LCD display with 3 selectable viewing modes (indoor, outdoor and night vision)
- Up to 2 Mpts memory depth and 2 GSa/s sampling rate
- 10,000-count resolution on DMM display
- Channel-to-channel isolation with CAT III 600 V overvoltage protection
- Data logging capability and USB connectivity
- Convenient data/screen image download via USB thumb drive
- Up to 10 selectable languages on the User Interface (UI)

Handheld Capacitance and LCR Meters

The Keysight U1700 Series capacitance/LCR meters

The U1730C Series handheld LCR meters now extends the measurement frequencies up to 100 kHz—a capability which is typically found only in benchtop meters. The meters offer auto identification, Ai capability which conveniently displays component type. You can also get measurements done faster and more efficiently with more detailed component analysis functions such as Z, ESR and DCR.

Features
- 20,000 counts resolution
- 0.2% basic accuracy
- Wide LCR ranges with 3 to 5 selectable test frequencies (Up to 100 kHz for U1733C)
- Auto identification (Ai) which automatically determines and displays component type and measurements
- Detailed component analysis with DCR, ESR, Z, D, Q, F functions
- Battery life of 16 hours/AC-powered
- IR-to-USB connectivity for data logging to PC
<table>
<thead>
<tr>
<th>Product</th>
<th>Model number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thermal imager</strong></td>
<td>U5855A</td>
<td>TrueIR thermal imager, 350°C</td>
</tr>
<tr>
<td></td>
<td>U5856A</td>
<td>TrueIR thermal imager, 650°C</td>
</tr>
<tr>
<td></td>
<td>U5857A</td>
<td>TrueIR thermal imager, 1200°C</td>
</tr>
<tr>
<td><strong>Insulation resistance tester</strong></td>
<td>U1451A</td>
<td>Insulation resistance tester, 250 V to 1 kV</td>
</tr>
<tr>
<td></td>
<td>U1452A</td>
<td>Insulation resistance tester, 50 V to 1 kV</td>
</tr>
<tr>
<td></td>
<td>U1452AT</td>
<td>Telecommunications insulation resistance tester, 50 V to 100 V</td>
</tr>
<tr>
<td></td>
<td>U1453A</td>
<td>Insulation resistance tester, OLED display, 50 V to 1 kV</td>
</tr>
<tr>
<td></td>
<td>U1461A</td>
<td>Insulation multimeter, OLED display, 50 V to 1 kV</td>
</tr>
<tr>
<td><strong>Digital multimeters</strong></td>
<td>U1231A</td>
<td>Basic True RMS 6,000 count handheld DMM</td>
</tr>
<tr>
<td></td>
<td>U1232A</td>
<td>True RMS 6,000 count handheld DMM</td>
</tr>
<tr>
<td></td>
<td>U1233A</td>
<td>True RMS 6,000 count handheld DMM with non-contact voltage detector</td>
</tr>
<tr>
<td></td>
<td>U1241B</td>
<td>True RMS 10,000 count handheld DMM</td>
</tr>
<tr>
<td></td>
<td>U1242B</td>
<td>True RMS 10,000 count handheld DMM with data logging</td>
</tr>
<tr>
<td></td>
<td>U1241C</td>
<td>True RMS 10,000 count handheld DMM with IP 67 and 3-meter (10-ft) drop proof</td>
</tr>
<tr>
<td></td>
<td>U1242C</td>
<td>True RMS 10,000 count handheld DMM with IP 67 and 3-meter (10-ft) drop proof</td>
</tr>
<tr>
<td></td>
<td>U1251B</td>
<td>50,000 count handheld DMM</td>
</tr>
<tr>
<td></td>
<td>U1252B</td>
<td>50,000 count handheld DMM with frequency counter, logic output and data logging</td>
</tr>
<tr>
<td></td>
<td>U1253B</td>
<td>50,000 count handheld DMM with OLED display</td>
</tr>
<tr>
<td></td>
<td>U1271A</td>
<td>True RMS 30,000 count handheld DMM</td>
</tr>
<tr>
<td></td>
<td>U1272A</td>
<td>True RMS 30,000 count handheld DMM with low impedance mode</td>
</tr>
<tr>
<td></td>
<td>U1273A</td>
<td>True RMS 30,000 count handheld DMM with OLED display</td>
</tr>
<tr>
<td></td>
<td>U1273AX</td>
<td>True RMS 30,000 count handheld DMM with OLED display, -40 to 55 °C operating temperature</td>
</tr>
<tr>
<td><strong>Clamp meters</strong></td>
<td>U1191A</td>
<td>Average responding 400 A handheld clamp meter</td>
</tr>
<tr>
<td></td>
<td>U1192A</td>
<td>Average responding 400 A handheld clamp meter with capacitance measurement</td>
</tr>
<tr>
<td></td>
<td>U1193A</td>
<td>True RMS 600 A handheld clamp meter</td>
</tr>
<tr>
<td></td>
<td>U1194A</td>
<td>True RMS 600 A handheld clamp meter with AC/DC μA current measurement</td>
</tr>
<tr>
<td></td>
<td>U1211A</td>
<td>True RMS 1,000 A handheld clamp meter</td>
</tr>
<tr>
<td></td>
<td>U1212A</td>
<td>True RMS 1,000 A handheld clamp meter with DC current measurement</td>
</tr>
<tr>
<td></td>
<td>U1213A</td>
<td>True RMS AC+DC 1,000 A handheld clamp meter with DC current measurement</td>
</tr>
<tr>
<td><strong>Oscilloscopes</strong></td>
<td>U1602B</td>
<td>20 MHz handheld digital oscilloscope</td>
</tr>
<tr>
<td></td>
<td>U1604B</td>
<td>40 MHz handheld digital oscilloscope</td>
</tr>
<tr>
<td></td>
<td>U1610A</td>
<td>100 MHz handheld digital oscilloscope</td>
</tr>
<tr>
<td></td>
<td>U1620A</td>
<td>200 MHz handheld digital oscilloscope</td>
</tr>
<tr>
<td><strong>LCR meters</strong></td>
<td>U1701B</td>
<td>11,000 count dual display handheld capacitance meter</td>
</tr>
<tr>
<td></td>
<td>U1731C</td>
<td>20,000 count dual display handheld LCR meter, 100 Hz/120 Hz/1 kHz</td>
</tr>
<tr>
<td></td>
<td>U1732C</td>
<td>20,000 count dual display handheld LCR meter, 100 Hz/120 Hz/10 kHz</td>
</tr>
<tr>
<td></td>
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<td>20,000 count dual display handheld LCR meter, 100 Hz/120 Hz/10 kHz/100 kHz</td>
</tr>
<tr>
<td><strong>Calibrator/meter</strong></td>
<td>U1401B</td>
<td>Handheld multi-function calibrator/meter</td>
</tr>
<tr>
<td><strong>Remote link solution</strong></td>
<td>U1177A</td>
<td>Infrared (IR)-to-Bluetooth Class 2 (10-meter) adapter</td>
</tr>
<tr>
<td></td>
<td>U1117A</td>
<td>Infrared (IR)-to-Bluetooth Class 1 (100-meter) adapter</td>
</tr>
<tr>
<td></td>
<td>U1115A</td>
<td>Remote logging display</td>
</tr>
</tbody>
</table>