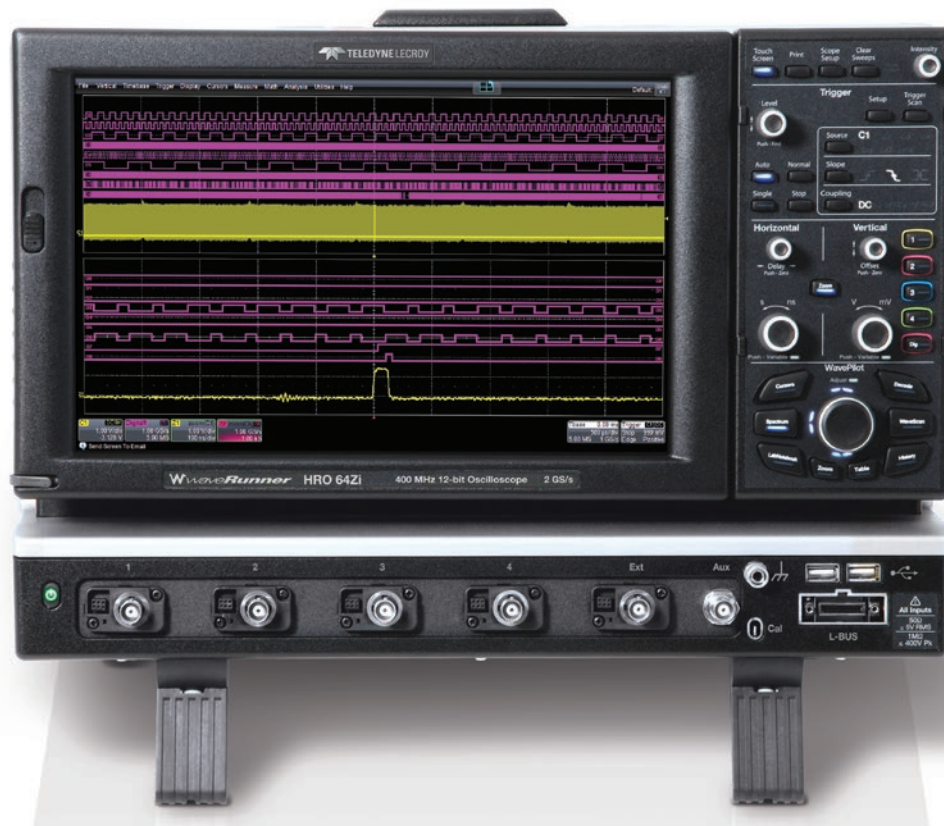


Excellent Signal Fidelity, Most Analysis Tools

400 MHz — 4 GHz, 8 and 12-bit Resolution



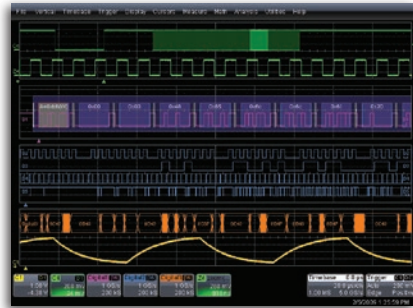
Key Specifications

| | |
|---------------------|---|
| Bandwidth | 400 MHz, 600 MHz, 1 GHz , 2 GHz, 2.5 GHz, 4 GHz |
| Channels | 4 |
| Memory | Up to 256 Mpts/Ch |
| Resolution | 8-bit or 12-bit |
| Sample Rate | Up to 40 GS/s |
| Connectivity | USB, LAN, GPIB |

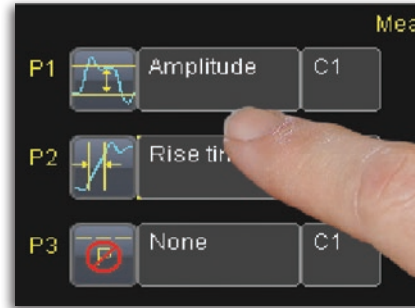
- **Excellent Signal Fidelity** — The new 12-bit ADC architecture provides the best noise performance and DC measurement accuracy for precise measurements
- **Comprehensive Serial Data Analysis** — Over 17 trigger and decode solutions solve embedded, computer, and avionics bus problems
- **New Way to Navigate and View** — The WavePilot controls provide easy access to common features, such as Cursors, Spectrum Analysis, and LabNotebook™, HISTORY and WaveScan
- **Powerful Triggering** — 10 SMART Triggers™, 4 stage cascade, TriggerScan, and measurement trigger allow quick signal isolation
- **Rotating Display** — The 12.1" high resolution WXGA display can rotate 90 and tilt to provide the optimum viewing orientation and angle



Use WaveScan to search for and identify anomalies on analog or digital signals.



View and measure analog, digital and serial data signals in one place.



Easily control all aspects of the WaveRunner with the intuitive touch screen interface.



Ordering Information

| Model | Bandwidth | Resolution | Memory (Per Ch/Interleaved) | Sample Rate (Per Ch / Interleaved) |
|----------------------|-----------|------------|-----------------------------|------------------------------------|
| WaveRunner HRO 64 Zi | 400 MHz | 12-bit | 256 Mpts/Ch | 2 GS/s |
| WaveRunner HRO 66 Zi | 600 MHz | 12-bit | 256 Mpts/Ch | 2 GS/s |
| WaveRunner 604 Zi | 400 MHz | 8-bit | 64 Mpts / 128 Mpts | 10 GS/s / 20 GS/s |
| WaveRunner 606 Zi | 600 MHz | 8-bit | 64 Mpts / 128 Mpts | 10 GS/s / 20 GS/s |
| WaveRunner 610 Zi | 1 GHz | 8-bit | 64 Mpts / 128 Mpts | 10 GS/s / 20 GS/s |
| WaveRunner 620 Zi | 2 GHz | 8-bit | 64 Mpts / 128 Mpts | 10 GS/s / 20 GS/s |
| WaveRunner 625 Zi | 2.5 GHz | 8-bit | 64 Mpts / 128 Mpts | 20 GS/s / 40 GS/s |
| WaveRunner 640 Zi | 4 GHz | 8-bit | 64 Mpts / 128 Mpts | 20 GS/s / 40 GS/s |

Available Probes

Single-Ended

- ZS2500** 2.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe
- ZS1500** 1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe
- ZS1000** 1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe

Differential

- ADP300** 1,400 V, 20 MHz High-Voltage Differential Probe
- ADP305** 1,400 V, 100 MHz High-Voltage Differential Probe
- ZD200** 200 MHz Active Differential Probe
- ZD500** 500 MHz Active Differential Probe
- ZD1000** 1 GHz Active Differential Probe
- ZD1500** 1.5 GHz Active Differential Probe
- D410** WaveLink 4 GHz 2.5 Vp-p Differential Amplifier Small Tip Module
- D420** WaveLink 4 GHz 5 Vp-p Differential Amplifier Small Tip Module

Differential Amplifiers

- DA1855A** 1 Ch, 100 MHz Differential Amplifier

High-Voltage

- PPE1.2KV** 10:1/100:1 200/300 MHz 50 MΩ High-Voltage Probe 600V/1.2kV Max. Volt. DC
- PPE2KV** 100:1 400 MHz 50 MΩ 2 kV High-Voltage Probe
- PPE4KV** 100:1 400 MHz 50 MΩ 4kV High-Voltage Probe
- PPE5KV** 1000:1 400 MHz 50 MΩ 5 kV High-Voltage Probe
- PPE6KV** 1000:1 400 MHz 50 MΩ 6 kV High-Voltage Probe
- PPE20KV** 1000:1 100 MHz 50 MΩ High-Voltage Probe 20kV Max. Volt. DC + 40kV Peak AC

Current

- AP015** 30 A; 50 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse
- CP030** 30 A; 50 MHz Current Probe - AC/DC; 30 A_{rms}; 50 A_{peak} Pulse
- CP031** 30 A; 100 MHz Current Probe – AC/DC; 30 A_{rms}; 50 A_{peak} Pulse
- CP150** 150 A; 10 MHz Current Probe – AC/DC; 150 A_{rms}; 50 A_{peak} Pulse
- CP500** 500 A; 2 MHz Current Probe – AC/DC; 500 A_{rms}; 700 A_{peak} Pulse

Mixed Signal

- MS-500** 500 MHz, 2 GS/s, 18 Ch, 50 Mpts/Ch Mixed Signal Oscilloscope Option
- MS-250** 250 MHz, 1 GS/s, 18 Ch, 10 Mpts/Ch Mixed Signal Oscilloscope Option

Excellent Performance

- 400 MHz, 600 MHz, 1 GHz, 2 GHz, 2.5 GHz, 4 GHz bandwidths
- 40 GS/s maximum sample rate
- 256 Mpts/Ch Analysis Memory

Rich Feature Set

- WaveStream™ fast update mode
- WaveScan™ search and find
- LabNotebook™ documentation and report generator

Wide Range of Serial Data Tools

- I²C, SPI, UART
- CAN, LIN, FlexRay™, SENT
- USB
- Audio (I²S, LJ, RJ, TDM)
- MIL-STD-1553, ARINC 429
- MIPI D-PHY, DigRF 3G, DigRF v4
- ENET, Manchester, NRZ