Excellent Signal Fidelity, Most Analysis Tools
400 MHz — 4 GHz, 8 and 12-bit Resolution

- **Excellent Signal Fidelity —** The 12-bit ADC architecture provides the best noise performance and DC measurement accuracy for precise measurements

- **Comprehensive Serial Data Analysis —** Over 20 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

- **WaveRunner 620MZi Debug Bundle —** Includes some of the most commonly used debug tools as part of the standard configuration

- **Rotating Display —** The 12.1" high resolution WXGA display can rotate 90 and tilt to provide the optimum viewing orientation and angle
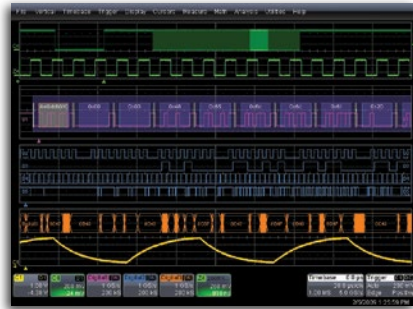
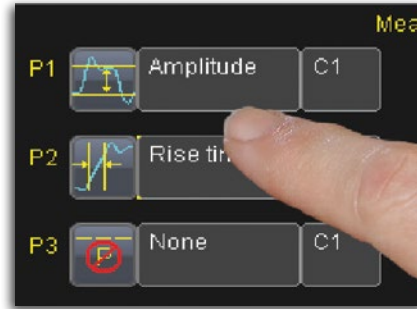| Key Specifications	
Bandwidth	400 MHz, 600 MHz, 1 GHz , 2 GHz, 2.5 GHz, 4 GHz
Channels	4
Memory	Up to 256 Mpts/Ch
Resolution	8-bit or 12-bit
Sample Rate	Up to 40 GS/s
Connectivity	USB, LAN, GPIB

teledynelecroy.com/waverunner

WaveRunner 6Zi and HRO 6Zi Oscilloscopes

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 620 MZi	2 GHz	8-bit	64 Mpts / 128 Mpts	20 GS/s / 40 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

ZS1000	1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe
ZS1500	1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe
ZS2500	2.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe
ZS4000	4.0 GHz, 0.6 pF, 1 MΩ High Impedance Active Probe

Differential

HVD3106	1,500 V, 120 MHz High-Voltage Differential Probe
HVD3102	1,500 V, 25 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

HVP120	400 MHz, 1kV V_{rms} High-Voltage Passive Probe
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

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
CP030A	30 A; 50 MHz High Sensitivity 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
CP031A	30 A; 100 MHz High Sensitivity 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

– WaveScan™ search and find
– LabNotebook™ documentation and report generator
– Spectrum Analyzer Mode

Wide Range of Serial Data Tools

– I^{2}C, SPI, UART
– CAN, CAN FD, LIN, FlexRay™, SENT
– Ethernet 10/100BaseT, USB 1.0/1.1/2.0, USB 2.0 HSIC
– Audio (I^{2}S, LJ, RJ, TDM)
– MIL-STD-1553, ARINC 429
– MIPI D-PHY, DigRF 3G, DigRF v4
– Manchester, NRZ