

LECROY (TELEDYNE LECROY)

WavePro 760Zi-A

The Teledyne LeCroy WavePro 760Zi-A is a high-performance 6 GHz, 4-channel digital storage oscilloscope featuring up to 40 GS/s sampling, a 15.4" WXGA color display, and advanced X-Stream II architecture optimized for rapid throughput, long memory, and responsive analysis.

SPECIFICATIONS

General

Interfaces	10/100/1000BaseT Ethernet (RJ45), Minimum 6 x USB 2.0 (3 on front panel), External Monitor Port, LBUS, Optional GPIB (IEEE-488.2), Optional LSIB (PCIe Gen1 x4)
Display	15.4" WXGA Color Display
Calibration Interval	1 year
Compliance & Certifications	CE Compliant, UL and cUL Listed; Conforms to EN 61010-1, EN 61326-1

Physical

Power Supply	100 - 240 VAC ±10% at 50/60 Hz, 115 VAC ±10% at 400 Hz; Max Power Consumption: 975 W (975 VA)
Operating Temperature	5 to 40 °C
Dimensions (W×H×D)	467 x 355 x 312 mm
Weight	18.4 kg

Vertical System

Analog Bandwidth	6 GHz
Rise Time (10% to 90%)	70 ps typical (flatness mode)
Number of Input Channels	4
Hardware Bandwidth Limits	20 MHz, 200 MHz, 1 GHz, 3 GHz, 4 GHz
Input Impedance	50 ohms $\pm 2\%$ or 1 Mohm 16 pF (10 Mohm 11 pF with supplied probe)
Input Coupling	ProLink Inputs - 50 ohms: DC, GND; ProBus Inputs - 1 Mohm: AC, DC, GND; 50 ohm: DC, GND
Maximum Input Voltage (50 ohms ProBus)	± 5 Vrms
Maximum Input Voltage (50 ohms ProLink)	± 4 Vpeak
Input Types	ProBus and ProLink (supports multiplexing of up to 8 probes)
Vertical Resolution	8-bit (up to 11-bit with Enhanced Resolution ERES)
DC Gain Accuracy	$\pm 1.5\%$ of full scale
Vertical Sensitivity (50 Ohm)	2 mV/div - 1 V/div
Vertical Sensitivity (1 MOhm)	2 mV/div - 10 V/div
Channel-to-Channel Isolation	> 150:1 (up to 1.5 GHz), > 80:1 (up to 3 GHz), > 30:1 (up to 6 GHz)
Rise Time (20% to 80%)	55 ps (typical)
Maximum Input Voltage (1 MOhm)	400 V max (DC + Peak AC ≤ 10 kHz)
Channel-to-Channel Deskew Range	± 9 ns

Horizontal System

Maximum Real-Time Sampling Rate	40 GS/s on 2 Ch, 20 GS/s on 4 Ch
Equivalent-Time Sampling Rate (RIS)	200 GS/s for repetitive signals (20 ps/div to 10 ns/div)
Time Base Range (Real-Time)	20 ps/div - 1000 s/div
Time Base Range (RIS Mode)	20 ps/div - 10 ns/div
Time Base Range (Roll Mode)	Up to 1000 s/div (user selectable at ≥ 100 ms/div)
Time Base Commonality	Internal timebase common to four input channels; external clock applicable at auxiliary input
Timebase Accuracy	± 1 ppm + aging (± 1.0 ppm first year)

Acquisition System

Standard Memory (4 Channels)	20 Mpts
Standard Memory (2 Channels)	40 Mpts
Standard Memory (1 Channel)	40 Mpts
Standard Memory Max Segments	3000
Memory Option S-32	32M (4 Ch) / 64M (2 Ch) / 64M (1 Ch) (15,000 max segments)
Memory Option M-64	64M (4 Ch) / 128M (2 Ch) / 128M (1 Ch) (15,000 max segments)
Memory Option L-128	128M (4 Ch) / 256M (2 Ch) / 256M (1 Ch) (15,000 max segments)
Maximum Waveform Capture Rate	1,000,000 waveforms/second (in Sequence Mode, up to 4 channels)
Intersegment Time	1 μ s

Trigger System

Trigger Modes	Normal, Auto, Single, Stop
Basic Triggers	Edge, Window, TV-Composite Video
SMART Triggers	State or Edge Qualified, Qualified First, Dropout, Pattern
Trigger Sources	Any input channel, Aux, Aux/10, or line
Trigger Coupling Modes	DC, AC, HFRej, LFRej
Pre-trigger Delay Range	0-100% of memory size (adjustable in 1% increments or 100 ns)
Post-trigger Delay Range	0-10,000 divisions in real time mode (limited at slower time/div or roll mode)
Trigger Hold-off Range	From 2 ns up to 20 s or from 1 to 99,999,999 events
Internal Trigger Range	± 4.1 divisions from center
External Trigger Input Range (Aux)	± 0.4 V
External Trigger Input Range (Aux/10)	± 4 V
Maximum SMART Trigger Frequency	2.0 GHz @ ≥ 10 mV/div
Minimum Triggerable SMART Width	200 ps
Serial Triggering Option	Up to 2.7 Gb/s serial patterns, up to 80-bit length
Hardware Clock Recovery	Optional
Trigger Capture Optimization	TriggerScan (captures signals up to 100X faster using high-speed hardware triggering)
Trigger Jitter	< 2.8 ps rms (typical), < 100 fs rms (with Software Assisted Trigger)

Connectivity and Ports

Remote Control Protocols	Windows Automation, LeCroy Remote Command Set
Network Communication Protocols	VXI-11, VICP, LXI Class C (v 1.2) Compliant
GPIB Interface Support	Optional (IEEE-488.2)
LSIB Interface Support	Optional (PCIe Gen1 x4 protocol with LeCroy supplied API)
Ethernet Interface	10/100/1000BaseT (RJ45 port)
USB Ports Configuration	6 USB 2.0 ports (2 front, 4 rear)
Peripheral Bus Standard	LeCroy LBUS standard

Processor and Storage

Processor Architecture	X-Stream II (optimized for fast throughput, long memory, and responsiveness)
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Waveform Measurements and Analysis

Advanced Search and Analysis	WaveScan (more than 20 search modes)
Mixed Signal Option	4 + 36 channel MSO option available
Jitter and Timing Analysis	Optional analysis package available
Spectrum Analyzer Analysis	Optional spectrum analyzer package available
Digital Filter Software	Optional digital filter package available

Clock System

External Clock Input	10 MHz (50 Ohm, -10 dBm to +14 dBm)
External Clock Output	10 MHz (50 Ohm, Sine wave, 0 dBm minimum)

Environmental

Operating Humidity	5% to 80% RH (non-condensing) up to +31 °C, derating to 50% RH at +40 °C
Operating Altitude	Up to 3,048 m (10,000 ft) at or below +25 °C

Computer System

Operating System	Windows 7 Professional (64-bit)
System Storage	250 GB or larger removable Hard Disk Drive

Timebase System

Sample Clock Jitter	125 fs rms (typical)
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Power Requirements

Power Requirements	100-240 VAC (±10%) at 50/60 Hz, 100-120 VAC (±10%) at 400 Hz
Power Consumption (Typical)	800 W / 800 VA
Power Consumption (Maximum)	975 W / 975 VA (with all accessories)

Interfaces

Probe Support	ProLink (channels 1-4) and ProBus (channels 1-4)
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Math & Measurements

Standard Math Functions	Up to 8 math traces (FFT, ERES, Average, Envelope, etc.)
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TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

Electronic design, debugging, validation, analysis, and compliance testing

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