

LECROY (TELEDYNE LECROY)

WavePro 735Zi-A

The Teledyne LeCroy WavePro 735Zi-A is a high-performance 3.5 GHz digital storage oscilloscope featuring 4 channels, up to 40 GS/s sample rate, and up to 256 Mpts/Ch of deep acquisition memory. Powered by the proprietary X-Stream II architecture, it provides exceptionally fast long-memory processing and includes selectable 50 ohm and 1 Mohm inputs. It is designed for intensive debugging, validation, analysis, and compliance testing in electronic design.

SPECIFICATIONS

General

Display	15.4" WXGA Color Display
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Physical

Power Supply	100 to 240 VAC (±10%) at 45-66 Hz; 100 to 120 VAC (±10%) at 380-420 Hz; 975 W / 975 VA max
Operating Temperature	+5 °C to +40 °C °C

Vertical System

Analog Channels	4
Analog Bandwidth	3.5 GHz (maximum)
Input Impedance	50 ohms ±2% or 1 Mohm 16 pF (10 Mohm 11 pF with supplied probe)
Input Coupling	1 Mohm: AC, DC, GND; 50 ohm: DC, GND
Vertical Resolution	8 bits (up to 11 bits with enhanced resolution / ERES)
Input Sensitivity (50 Ω)	2 mV/div to 1 V/div
Input Sensitivity (1 MΩ)	2 mV/div to 10 V/div

Acquisition System

Maximum Real-Time Sample Rate	40 GS/s (on 1 or 2 channels), 20 GS/s (on 4 channels)
Maximum Equivalent Time Sample Rate	200 GS/s (Random Interleaved Sampling)
Maximum Record Length (Standard)	20 Mpts/Ch (4 channels), 40 Mpts/Ch (1 or 2 channels)
Maximum Record Length (Optional)	Up to 128 Mpts/Ch (4 channels), 256 Mpts/Ch (1 or 2 channels) via L-128 Option

Triggering System

Trigger Modes	Normal, Auto, Single, Stop
Trigger Sources	Any input channel, Aux, Aux/10, Line
Trigger Coupling	DC, AC, HFRej, LFRej
Internal Trigger Range	±4.1 divisions from center
External Trigger Input Range	Aux: ±0.4 V; Aux/10: ±4 V
Post-trigger Delay Range	0 to 10,000 divisions in real time mode
Trigger Holdoff Range	From 2 ns up to 20 s, or from 1 to 99,999,999 events

Measurement and Math

Advanced Search Modes	Over 20 search modes (WaveScan)
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Mixed Signal Options

Mixed Signal (MSO Option)	Fully integrated 36 digital channel option (4 + 36)
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Connectivity and Interfaces

Network Communication Standard	VXI-11 or VICP, LXI Class C (v 1.2) Compliant
Remote Control	Via Windows Automation, or via LeCroy Remote Command Set

Processing & Software

Operating System	Microsoft Windows 7 Professional (64-bit)
System RAM	8 GB standard (up to 32 GB optional)

Environmental

Storage Temperature	-20 °C to +60 °C
Operating Humidity	5% to 90% RH (non-condensing) up to +31 °C, decreasing linearly to 50% RH at +40 °C
Operating Altitude	Up to 3,048 m (10,000 ft) at or below +25 °C

Inputs & Outputs

Probe Interfaces	ProLink (50 Ω) and ProBus (1 MΩ / 50 Ω)
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Synchronization

External Reference Input	10 MHz
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TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

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

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