

LECROY (TELEDYNE LECROY)

HDO6104

The Teledyne LeCroy HDO6104 is a 1 GHz, 4-channel digital oscilloscope from the HDO6000 Series. It utilizes HD4096 high-definition technology with a true 12-bit ADC architecture (up to 15 bits with Enhanced Resolution) to provide exceptionally clean and detailed signal visualization. Standard features include 50 Mpts/Ch memory, a 12.1-inch WXGA multi-touch display, and a suite of advanced analysis capabilities such as Spectrum Analyzer Mode, WaveScan search, and History Mode playback.

SPECIFICATIONS

General

Display	12.1-inch WXGA (1280 x 800) widescreen flat panel TFT-Active Matrix touch screen
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Vertical System (Analog)

Analog Bandwidth	1 GHz
Number of Input Channels	4
Hardware Vertical Resolution	12 bits
Enhanced Resolution (ERES)	12.5 to 15 bits user selectable
Input Coupling	1 M Ω : AC, DC, GND; 50 Ω : DC, GND
Maximum Input Voltage	1 M Ω : 400 V max (DC + Peak AC $\leq$ 10 kHz); 50 Ω : 5 Vrms
Bandwidth Limit Filters	20 MHz, 200 MHz

Horizontal System

Timebase Accuracy	± 2.5 ppm + 1.0 ppm/year from calibration
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Acquisition System

Maximum Sample Rate (Single-Shot)	2.5 GS/s on 4 Channels
Maximum Sample Rate (Interleaved)	125 GS/s (Random Interleaved Sampling)
Standard Record Length	50 Mpts/Ch
Maximum Record Length (with Options)	100 Mpts or 250 Mpts/Ch (option dependent)

Triggering System

Trigger Sources	Any input channel, Ext, Ext/10, or line
Trigger Modes	Normal, Auto, Single, Stop
Post-trigger Delay	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

Display System

Display Type and Size	12.1-inch widescreen flat panel TFT-Active Matrix touch screen
Display Resolution	1280 x 800 pixels (WXGA)
Grid Styles	Auto, Single, Dual, Quad, Octal, X-Y, Single+X-Y, Dual+X-Y
Waveform Display Styles	Sample dots joined or sample dots only

Analysis Tools

Waveform Search	WaveScan Advanced Search and Find (Standard)
Historical Waveform Playback	History Mode (Standard)
Report Generation	LabNotebook (Standard)

Vertical System

Vertical Sensitivity (50 Ω)	1 mV/div to 1 V/div
Vertical Sensitivity (1 MΩ)	1 mV/div to 10 V/div

Inputs & Outputs

Probe Interface	Teledyne LeCroy ProBus (BNC)
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Trigger

Internal Trigger Level Range	±4.1 divisions from center of screen
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TECHNOLOGY

Digital High Definition Oscilloscope (12-bit ADC)

APPLICATIONS

Embedded systems debug, digital design, power electronics, automotive design, and general-purpose precision signal analysis

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.