

FNIRSI DPOX180H 2-in-1 Handheld Digital Phosphor Oscilloscope



Model: DPOX180H

Manufacturer: FNIRSI

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FNIRSI DPOX180H 2-in-1 Handheld Digital Phosphor Oscilloscope

The FNIRSI DPOX180H is a handheld Digital Phosphor Oscilloscope (DPO) that combines a 180 MHz dual-channel oscilloscope, a 20 MHz DDS function generator, and advanced signal analysis functions. It is designed as a compact, mobile tool for service, workshop, and laboratory work, offering high functionality in a single device.

180 MHz bandwidth and 500 MSPS - measurement precision

The oscilloscope offers 180 MHz (-3 dB) analog bandwidth and real-time sampling up to 500 MSPS (250 MSPS in dual-channel operation). This allows for accurate reproduction of fast edges, pulses, and high-frequency signals, which is crucial in the diagnosis of modern electronic systems.

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Digital Phosphor technology - more information in the waveform

The Digital Phosphor technology uses brightness scale and color temperature to visualize signal frequency. This makes it easy to spot jitter, noise, instabilities, and rare events that may remain invisible in classic oscilloscopes.

50,000 wfms/s - no dead time

The high refresh rate of 50,000 waveforms per second significantly reduces acquisition dead time. This allows you to effectively capture short-term disturbances and signal anomalies, which is particularly important when analyzing switching power supplies and digital buses.

Hardware bandwidth limit of 20 MHz and stable trigger

The built-in switchable 20 MHz hardware bandpass filter effectively reduces noise and high-order harmonics. Combined with an extensive triggering system (Auto/Normal/Single, rising and falling edge) and adaptive trigger stabilization, it ensures a clear and stable signal image.

FFT and X-Y mode - frequency and relationship analysis

The FFT function provides a quick, qualitative preview of the frequency spectrum of the signal under test. In addition, the X-Y mode with digital phosphor allows you to analyze the amplitude and phase relationships between two channels, e.g., in the form of Lissajous figures.

Time zoom and scroll mode

The oscilloscope offers a ZOOM time base in the range of 2×–1000×, allowing for accurate analysis of selected waveform segments. The scroll mode allows for continuous observation of slow-changing signals in real time.

20 MHz DDS generator and chopping function

The built-in 20 MHz DDS function generator supports 14 waveform types, with frequency adjustment in 1 Hz steps. The unique chopping output function allows you to cut out a fragment of the measured

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waveform and use it as the generator output signal, with the ability to save up to 500 custom signals.

Data storage, viewing, and export

The internal 120 Mbit memory can store up to 250 waveforms and 90 screenshots (BMP). Data can be viewed directly on the device or exported to a computer via USB, and the firmware can be easily updated.

Mobility, safety, and ease of use

The 2.8" (320×240) color IPS screen ensures good readability in all conditions. The device is equipped with one-button automatic configuration, cursor measurements, input protection up to 400 V, a 3000 mAh Li-ion battery (up to approx. 4 hours of operation), and fast 5 V / 2 A charging. The FNIRSI DPOX180H is a versatile and safe tool for electronics engineers, service technicians, students, and demanding hobbyists.

Manufacturer	FNIRSI
Model	DPOX180H
Device type	Handheld digital phosphor oscilloscope (DPO)
Number of channels	2
Analog bandwidth	180 MHz (-3 dB)
Sampling frequency	500 MSPS (1 channel) / 250 MSPS (2 channels)
Refresh rate	50,000 waveforms/s
Display technology	Digital Phosphor Oscilloscope (DPO)
Spectrum analysis	FFT (Fast Fourier Transform)
Operating modes	Auto / Normal / Single
Triggering	Rising edge / falling edge
Hardware bandwidth limit	20 MHz (switchable)
X-Y mode	Yes (with digital phosphor)

Time base zoom	2× – 1000×
Scroll mode	Yes (roll/scroll)
Signal generator	DDS (Direct Digital Synthesis)
Maximum generator frequency	20 MHz
Generator waveform types	14 (sine, square, triangle, saw, pulse, multi-tone, and others)
Generator frequency adjustment resolution	1 Hz
Chopping function	Yes (cutting waveform fragments)
Number of custom signals	Up to 500
Internal memory	120 Mbit
Waveform recording	Up to 250 groups
Screenshot recording	Up to 90 files (BMP)
Data export	USB
Firmware update	Yes (via USB)
Screen	IPS LCD
Screen diagonal	2.8 inches
Screen resolution	320 × 240 px
Automatic measurements	Yes (one-button AUTO)
Manual measurements	Cursors
Input protection	Up to 400 V (surge protection)
Power supply	Li-ion battery
Battery capacity	3000 mAh
Battery life	Up to approx. 4 hours
Charging	5 V / 2 A (fast charging)
Automatic shutdown	Yes (programmable, 5 min – 2 h)

GPSR Link: https://psr-assets.innpro.pl/car_accessories/sg_car_accessories_diagnostic_tools.pdf, Net weight: 325, Box length: 22,00, Box width: 12,00, Box height: 7,50, Gross weight: 660, Last delivery: 16.09.2026, PPWR: <https://ppwr.innpro.pl/fnirsi>

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