

FNIRSI DS215H Oscilloscope



Model: DS215H

Manufacturer: FNIRSI

EAN: 5905156108219

Product Code: 1107718

R2,450

FNIRSI DS215H Oscilloscope

Working with electronics requires equipment that can keep up with even the most demanding tasks. The FNIRSI DS215H combines a dual-channel digital oscilloscope with a 50 MHz bandwidth and a function generator into a single, compact design, allowing you to both analyze and generate signals without the need for multiple separate devices. High measurement precision, intuitive operation, and a clear IPS display make it ideal for equipment maintenance, research and development, testing, and diagnostics in the workshop and in the field.

High Measurement Accuracy and Fast Sampling

The oscilloscope utilizes a modern architecture based on FPGA, MCU, and ADC chips, ensuring high performance and operational stability. An analog bandwidth of 50 MHz and real-time sampling at up to 250 MSa/s enable precise signal analysis in a wide range of applications. Thanks to its high measurement resolution, the device allows for precise observation of waveforms and detection of even short-duration signal changes.

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Function Generator with Extensive Configuration Options

The FNIRSI DS215H is equipped with a function generator supporting 13 waveform types, which significantly expands the device's capabilities during the testing and design of electronic circuits. The frequency range from 0 to 50 kHz, adjustable in 1 Hz increments, allows you to very precisely tailor the signal parameters to a specific application. You can freely adjust the frequency, amplitude, and duty cycle, making the generator suitable for both simple tests and more advanced laboratory work.

Convenient Operation

The 3.5-inch color IPS display with a resolution of 480 × 320 pixels provides a clear view of waveforms and an easy-to-read interface. Intuitive control via a rotary knob and buttons allows you to quickly change settings and access context-sensitive menus without having to search through options unnecessarily. An additional convenience is the ability to take screenshots and view them later, which facilitates the analysis of results and the documentation of measurements.

Safe operation even at high voltages

The device is designed for safe operation in demanding conditions. It supports a peak input voltage of up to ± 400 V and is equipped with high-voltage protection features that enhance safety during measurements. The option to select a probe factor of 1X or 10X allows you to tailor the configuration to the nature of the measurements being performed. The device meets the requirements of the GB/T 15289-2013 standard, confirming compliance with applicable safety standards.

Ready to Work Anywhere

Its compact and lightweight design means the FNIRSI DS215H fits easily into a service bag or backpack, making it ideal for field work. The built-in 1500 mAh lithium-ion battery provides up to 4 hours of continuous operation on a single charge, and powering via the USB-C port (5 V / 1 A) allows you to conveniently recharge the device almost anywhere. This versatile tool is designed for service technicians, electronics technicians, engineers, and professionals involved in the design, diagnostics, and testing of electronic circuits.

Included in the set

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- DS215H oscilloscope
- oscilloscope probe
- test lead with alligator clips
- USB-C cable
- BNC adapter
- user manual

General

Manufacturer	FNIRSI
Model	DS215H
Display	3.5” Color IPS
Backlight	Adjustable brightness
Power	Type-C (5 V/1 A)
Battery	1500 mAh
Languages	Chinese, English, German, Portuguese, Japanese, Spanish, Korean, Russian
Product Dimensions	approx. 66 x 110 x 19.5 mm
Weight	approx. 138 g

Oscilloscope

Channel	Dual-channel
Bandwidth	50 MHz
Real-time sampling rate	250 MSa/s
Data storage	14M
Time scale range	20 ns/div – 20 s/div
Vertical sensitivity	10 mV/div – 10 V/div
Vertical resolution	8 bits

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Input impedance	1 MΩ
Waveform display mode	Scroll
Measurement data	Duty cycle, Frequency, Vpp, Max., Min., Average, RMS, Current, Duty cycle, Pulse width
Probe attenuation factor	1x/10x
Input coupling	AC/DC
Trigger type	Rising/falling edge
Peak voltage	±400 V
Trigger level range	8 divisions (positive and negative)
Trigger Mode	Auto / Normal / Single

Signal Generator

Output Waveform	Supports multiple output waveforms
Waveform Frequency	0-50 kHz
Square Wave Duty Cycle	0-100%
Waveform amplitude	0.1 V-3.0 V

GPSR Link: https://psr-assets.innpro.pl/tools/sg_tools_measuring_tools.pdf, Gross weight: 390, Net weight: 146, Box length: 19,50, Box width: 9,00, Box height: 7,50, PPWR: <https://ppwr.innpro.pl/fnirsi>

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