

FNIRSI 2D15P Oscilloscope



Model: 2D15P

Manufacturer: FNIRSI

EAN: 5905156108226

Product Code: 1107719

R4,955

FNIRSI 2D15P Oscilloscope

Precise measurements, convenient signal analysis, and extensive diagnostic capabilities do not necessarily require the use of several separate devices. The FNIRSI 2D15P combines the functions of a two-channel oscilloscope, a True RMS multimeter, and a signal generator, offering comprehensive support for service, laboratory, and design work. Intuitive operation, fast data processing, and a clear touchscreen ensure that every test runs smoothly and comfortably. The entire unit is housed in a lightweight, portable design equipped with a high-capacity battery, making it ideal for use both at the workstation and in the field.

Advanced Signal Analysis

The device functions as a two-channel oscilloscope with a bandwidth of 100 MHz when operating on a single channel and 50 MHz when using both channels simultaneously. A sampling rate of 500 MSa/s allows for accurate capture of even rapidly changing signals. Three memory depths are available (10 K, 100 K, and 1 M samples), allowing you to tailor data acquisition to the nature of the

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measurements being performed. The impressive waveform capture rate, reaching approximately 1,200 frames per second, increases the likelihood of detecting short-duration disturbances and irregularities. Additionally, the 20 MHz bandwidth limit effectively reduces noise, facilitating ripple analysis and enabling precise measurements.

Extensive diagnostic functions

The model is equipped with a 4.3-inch IPS touchscreen that works in conjunction with physical buttons, ensuring convenient operation in various working conditions. Displaying waveforms using 128 levels of grayscale and color temperature visualization makes it easier to observe signal stability and its variation over time. The infinite persistence feature allows you to overlay successive waveforms, while XY mode facilitates the analysis of phase relationships between signals. The device performs real-time mathematical operations, such as adding, subtracting, multiplying, or dividing signals. Analysis is further supported by measurement cursors, 13 automatic parameter measurements, and Auto, Normal, and Single trigger modes, allowing you to easily adapt the recording method to the signal under test.

Three Devices in One

The FNIRSI 2D15P features a built-in DDS signal generator with a frequency of up to 10 MHz, capable of generating 11 common waveforms with adjustable amplitude and duty cycle. This makes the device ideal for testing and debugging electronic circuits. The integrated True RMS multimeter with a resolution of 19,999 counts allows for accurate measurements of AC and DC voltage and current, resistance, capacitance, as well as diode and continuity testing. An additional diagnostic tool is the Curve View feature, which displays a real-time graph of signal changes, facilitating observation and analysis.

Ready for use in any conditions

Its high operating speed is enabled by a modern architecture based on FPGA, MCU, and ADC chips, ensuring efficient signal processing and stable device operation. The compact housing is approximately 30% lighter than previous models, making it more convenient to transport and use. The built-in 5000 mAh battery ensures long operating time, and the universal USB-C connector allows for fast and convenient charging. The device also allows you to record waveforms and export

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data for later analysis, making it ideal for both quick measurements and more advanced diagnostic tasks.

Included in the set

- 2D15P oscilloscope
- P6100 probe x2
- multimeter probe
- alligator clip probe
- USB data transfer cable
- user manual

Manufacturer	FNISRI
Model	2D15P
Channels	Dual-channel
Sampling rate	500 MSa/s
Analog bandwidth	100 MHz
Memory depth	10K, 100K, 1M
Input impedance	1 MΩ
Time scale range	5 ns – 50 s
Vertical sensitivity	10 mV – 10 V/div
Maximum input voltage	800 V (x10 probe)
Trigger mode	Automatic, Normal, Single
Trigger type	Rising, falling, both edges
Display mode	Point, vector, color temperature
Connector	AC/DC
Dwell time	min / 2 s / 5 s / 10 s / 20 s / 50 s / ∞
Mathematical operations	Supported
Waveform recording	Supported

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Waveform export Supported

Cursor measurement Supported

GPSR Link: https://psr-assets.innpro.pl/tools/sg_tools_measuring_tools.pdf, Gross weight: 1190, Net weight: 602, Box length: 23,00, Box width: 16,50, Box height: 12,50, PPWR: <https://ppwr.innpro.pl/fnirsi>