

FNIRSI DPOX180H Handheld Phosphor Digital Oscilloscope – Precision, Portability, and Performance in One Device

The **FNIRSI DPOX180H Handheld Phosphor Digital Oscilloscope** is a state-of-the-art instrument designed to meet the needs of both electronics enthusiasts and professional engineers. Combining high-speed performance, versatile functionality, and portable convenience, this dual-channel oscilloscope empowers users to analyze complex electronic signals anywhere, anytime. Whether you are troubleshooting circuits, designing new electronics, or conducting educational experiments, the DPOX180H delivers reliable and precise results.

High-Performance Specifications for Accurate Signal Analysis

The FNIRSI DPOX180H boasts an impressive **180MHz bandwidth** with a **-3dB point**, allowing it to capture even the fastest signal transitions with remarkable clarity. The oscilloscope supports an ultra-high **50,000 wfms/s waveform capture rate**, ensuring that rare or transient events are quickly detected without missing critical details. Its **dual-channel design** allows simultaneous monitoring of two separate signals, making it ideal for differential measurements, phase comparisons, and complex signal analysis.

The built-in **20MHz signal generator** further enhances the oscilloscope's functionality, providing a reliable source of test signals for circuit calibration, component testing, or educational purposes. Users can easily generate sine, square, triangle, and other waveform types, making testing faster, easier, and more accurate.

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DPOX180H Handheld Phosphor Digital Oscilloscope 180MHz -3DB 50000wfms/s Dual Channel
20Mhz Signal Generator ZOOM XY FFT[/caption]

Phosphor Display Technology for Superior Visualization

One of the standout features of the DPOX180H is its **phosphor digital display**, which provides a bright, high-contrast screen with exceptional color depth. This display technology ensures that waveform details are clearly visible even in challenging lighting conditions. Additionally, the

oscilloscope supports **zoom**, **XY mode**, and **FFT (Fast Fourier Transform)** functions. With zoom functionality, users can magnify specific signal segments for detailed inspection. XY mode allows visualization of Lissajous patterns and phase relationships, while FFT enables frequency-domain analysis, making it easier to identify harmonics, noise, and other spectral characteristics.

Portability Meets Versatility

Unlike traditional bench oscilloscopes, the FNIRSI DPOX180H is designed to be fully **handheld and portable**, fitting comfortably in one hand or in a toolkit. Its compact design does not compromise performance, making it an excellent choice for field engineers, repair technicians, and students working in labs or remote locations. Despite its small size, the oscilloscope offers a wide array of features usually found only in larger, more expensive instruments.

User-Friendly Interface and Operation

The DPOX180H is engineered for intuitive operation. The clearly labeled front panel, responsive buttons, and touch-sensitive rotary knob allow quick access to measurement functions. Users can easily adjust timebase, voltage scales, and trigger settings without navigating complex menus. The oscilloscope also features auto-set functionality, which automatically optimizes settings for any incoming signal, making it ideal for beginners and professionals alike.

Comprehensive Measurement and Analysis Functions

Equipped with a wide range of measurement capabilities, the DPOX180H can analyze voltage, current, frequency, rise/fall time, pulse width, and more. Advanced features include waveform storage, cursor measurement, and automatic calculations. The device supports **data saving to external storage** for later review and documentation, ensuring that critical measurements are never lost.

Applications Across Multiple Fields

The FNIRSI DPOX180H is a versatile tool suitable for a variety of applications:

- **Electronics Design and Development:** Test and troubleshoot circuits, analyze signal integrity, and verify component performance.
- **Field Service and Repair:** Compact design allows on-site diagnostics of electronic equipment, automotive electronics, and industrial machinery.

- **Education and Training:** Ideal for teaching electronics principles, waveform analysis, and signal processing in classrooms or labs.
- **Hobbyist Projects:** Perfect for makers, DIY enthusiasts, and experimenters who require professional-grade measurement tools.

Durable and Reliable

Built with robust construction, the DPOX180H withstands the rigors of daily use in labs, workshops, or field environments. Its long-lasting battery ensures hours of uninterrupted operation, and the device's efficient power management system optimizes battery life without compromising performance.

Conclusion

The **FNIRSI DPOX180H Handheld Phosphor Digital Oscilloscope** is the perfect combination of performance, portability, and versatility. With its high-speed 180MHz bandwidth, dual-channel measurement capability, 20MHz built-in signal generator, and advanced display technologies including zoom, XY, and FFT, this oscilloscope meets the needs of professionals, educators, and hobbyists alike. Whether you are troubleshooting circuits, conducting research, or learning electronics, the DPOX180H provides precise, reliable, and convenient measurement solutions in a compact handheld design.

Invest in the FNIRSI DPOX180H today and experience unparalleled signal analysis performance wherever your projects take you.