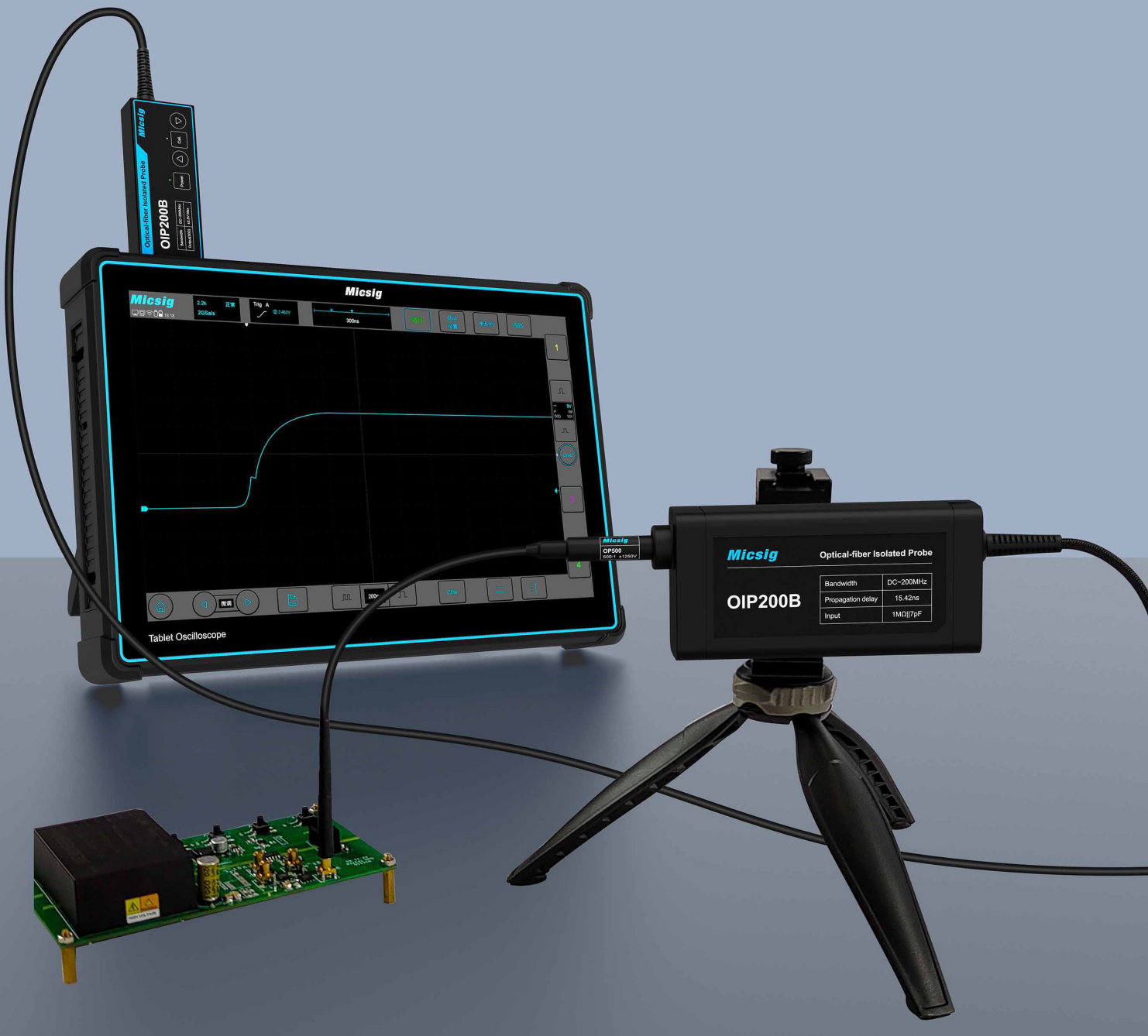
Micsig

OIP Series

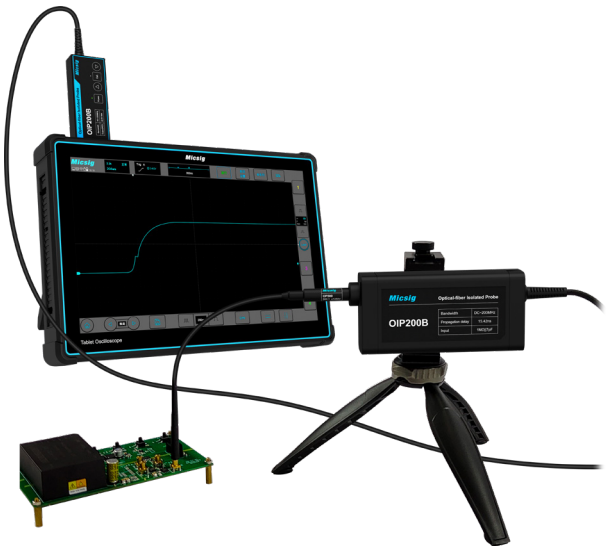
Optical-fiber Isolated Probe

With the exclusive SigOFIT™ optical isolation technology of Micsig, the OIP probes have extremely high common-mode rejection capability, delivers 1% accuracy, providing excellent performance for high-bandwidth, high-common-mode voltage signal test and measurement solution.

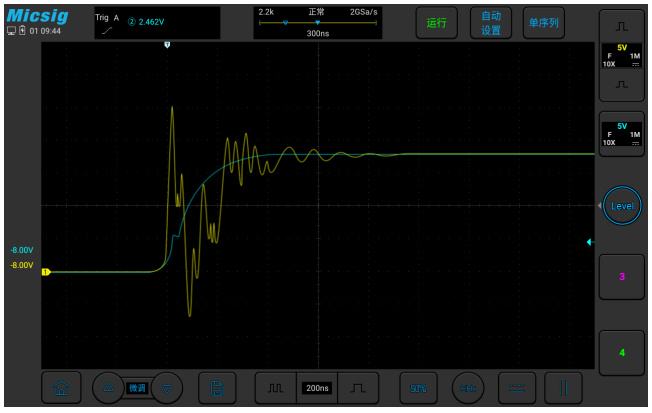


Applications:

- Design and analysis of GaN, SiC, IGBT Half/Full bridge devices
- Inverter, UPS and Switching power supply design
- Safety isolation test for high voltage high bandwidth applications
- Floating measurements
- Motor drive design
- Power converter design
- Electronic ballast design
- Power device evaluation
- Current shunt measurements
- EMI and ESD troubleshooting



Key Features:



Differential Probe OIP probe

High CMRR

- With up to 160dB CMRR (Common Mode Rejection Ratio) , the OIP almost eliminates common mode interference, greatly reduces vibration and noise when comparing with traditional differential probes, provides best solution for SiC and GaN test.

Stable High Accuracy

- 1% DC accuracy, not affected by temperature changes, delivers stable and accurate measurement.

Ultra-low Noise

- ≤1.41 mVrms noise within its full bandwidth and ranges.

Wide Measurement Range

- Compatible with different attenuation tips, the OIP able to measure differential signals from ±2.5V to ±2500V, and realize full-range output.

Safe and Easy Connections

- Short test leads, low parasitic capacitance, safe to test GaN

OP10 / OP20 / OP500 / OP1000

Industry-leading Test Efficiency

- Test starts when power on, no need to warm up
- AutoZero in a second, no more waiting

Compact Size

- Smaller size than traditional differential probes, more flexible and convenient.

Specifications:

Model	OIP100B	OIP200B	OIP500B	OIP1000B
Bandwidth	100MHz	200MHz	500MHz	1GHz
Rise Time	≤3.5ns	≤1.75ns	≤ 700ps	≤ 350ps
Output Voltage	±2.5V		±1V	
Propagation Delay	15.42ns (2m cable length)			
Power Supply	USB Type-C; DC: 5V			
DC Gain Accuracy	1%			
Noise	<1.41mVrms			
Common Mode Voltage Range	60kVpk			
Battery Runtime	8 hours			
Cable Length	2m (Std.) / 10m (Opt.) (customizable)			

Attenuator Ratio, Input Impedance		
Probe Tip	Attenuation Ratio	Input Impedance
SMA Input 1X	1X	1MΩ || 10pF
OP10 Input 10X	10X	4.47MΩ || 3.0pF
OP20 Input 20X	20X	4.23MΩ || 2.8pF
OP500 Input 500X	500X	12.27MΩ || 2.6pF
OP1000 Input 1000X	1000X	30.63MΩ || 2.6pF

Common Mode Rejection Ratio						
Probe Tip	DC	1M	100M	200M	500M	1G
SMA Input 1X	160dB	156dB	116dB	110dB	102dB	96dB
OP10 Input 10X	160dB	136dB	96dB	90dB	82dB	76dB
OP20 Input 20X	160dB	130dB	90dB	84dB	76dB	70dB
OP500 Input 500X	160dB	102dB	62dB	56dB	48dB	42dB
OP1000 Input 1000X	160dB	96dB	56dB	50dB	42dB	36dB

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