

Nanosecond Pulse Generator & 3-axis Hall probe

Nanosecond Pulse Generator

Goptica Nanosecond Pulse Generator is a compact, flexible, and highly integrated advanced pulse testing solution. Designed for scientific research and industrial applications that demand precision and efficiency, it combines a compact footprint with powerful functionality, making it a reliable assistant on your laboratory benchtop.



Nanosecond Pulse Generator

Characteristics

- Compact desktop pulse generator
- 3 – 50V output pulse voltage
- USB-C for control and power delivery
- 50 ohms output impedance
- Sync in/output



Waveform of a 35V 20ns pulse

SPECIFICATIONS

Parameter	Specification
Amplitude	0.05 to 50 volts, adjustable
Pulse width	10 ns to 10 ms, adjustable
Logic I/O	1x synchronization input 1x non-inverted output
Output impedance	50 ohms
Rise time	1.5 ns
Fall time	2.5 ns
Trigger modes	Pulse via PC, Internal, External (TTL-level >10 ns)
Propagation delay	200 ns ~ 1 ms, adjustable
Power	12V barrel jack input OR USB-C power delivery via PC
Dimensions	118 × 112 × 35 mm

Nanosecond Pulse Generator & 3-axis Hall probe

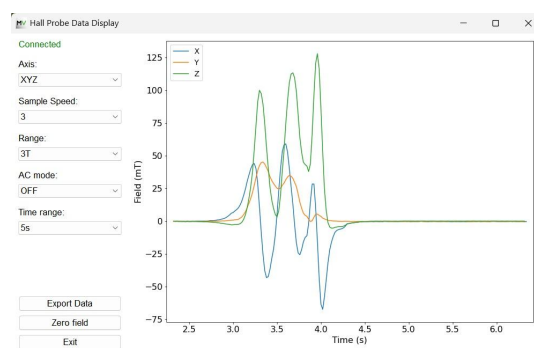
3-axis Hall probe

The Goptica 3-Axis Hall Probe is a handheld teslameter designed for high-precision magnetic field measurement. It simultaneously measures the magnetic field components in three orthogonal directions in space, giving you a comprehensive, intuitive understanding of the true distribution and variation of the magnetic field.

Featuring a portable all-in-one design, the instrument comes with a high-refresh-rate display on the main unit. The probe connects to the main unit flexibly via cable, making it easy to handle on-site field measurement, mobile inspection, and in-laboratory installation and commissioning. Whether for scientific instrument development, industrial equipment testing, or electromagnetic environment assessment, we deliver reliable and stable measurement performance.



3-axis Hall probe



Open-source Python GUI for real-time data capture and display

Characteristics

- Handheld Teslameter for 3-axis magnetic field measurement
- Selectable measurement range from (0 .1T to 30T)
- Selectable sampling frequency (1 Hz to 3.75 kHz)
- Portable display with 60 Hz refresh rate
- Ultralow noise: 0.004G at 1 Hz
- Traceable to NIST calibration
- Easy to use PC software
- Temperature compensated
- API for 3rd party software integration

Nanosecond Pulse Generator & 3-axis Hall probe

SPECIFICATIONS

Parameter	Specification			
Measurement Range	0.1T	0.3T	1T	3T
Spectral noise density (uT)	70	140	350	900
Accuracy (% of range)	< 0.3%			
Field-sensitive volume	200 × 200 × 5 μm			
AD conversion	14-18 bit			
Sampling frequency	1 Hz、15 Hz、75 Hz、375 Hz、3.75 kHz			
Operation temperature	-20 to 85 °C			
Weight	30 g			
Dimensions	DataLink: 97 × 56 × 19 mm; Probe: 200 × 8 × 13 mm			