

SIG100

SIG100 Signal Generator

A portable electrical signal source for waveform timing, pulse trains and synchronised control of light sources. SIG100 provides three operating interfaces, an LCD, PC control and an external rechargeable battery.

Measurement method

Use M1 for frequency, duty-cycle and amplitude control, M2 for amplitude control, or M3 for a sequence of up to three high/low pulse pairs. A synchronous output can coordinate multiple light sources.

Features

- LCD with M1, M2 and M3 interfaces
- External rechargeable battery
- Adjustable support bracket
- PC operation software
- 50 Ω output resistance
- Custom pulse patterns available

Applications

- Optogenetic light-source timing
- Synchronising multiple light sources
- Programmable pulse-train experiments

M1 and M2: periodic signal and amplitude control

Mode	Parameter	Specification
M1	Frequency	0-100 kHz
M1	Duty cycle	1-99%
M1	Amplitude	0-5 V
M2	Amplitude	0-5 V

M3: pulse train

Parameter	Specification
Pulse signals	Up to 3
High intervals T1 / T3 / T5	0-30 s, in 1 ms steps
Low intervals T2 / T4 / T6	0-30 s, in 1 ms steps
Repetitions n	1-1000 or continuous cycling

Example settings

Parameter	Specification
Periodic example	100 Hz; 50% duty cycle; 5 V amplitude
Pulse-train example	T1 50 ms; T2 100 ms; T3 25 ms; T4 25 ms; T5 0; T6 0; n 100

Conditions and configuration notes

Example waveforms are illustrative operating settings, not additional performance limits. Confirm interface, output loading and timing accuracy for the target experiment.

Specify your measurement

- Required waveform and timing sequence
- Trigger voltage, load impedance and connector
- PC control or standalone operation

Prepared by Precisometer. Technical review: 24 October 2026. Confirm the supplied configuration, measurement conditions, accessories and warranty with the quotation.

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