

Infinition Trigger Devices



Optical Trigger (OT-01)

The Infinition Optical Detector can be used to detect the flash of projectiles exiting the muzzle, ignition of rocket motors, squibs, explosions, etc.

- Based on large silicon detector (100 square mm detection surface)
- 75 mm plano-convex lens used to focus the light on the detector
- High gain FET amplifier using a photoconductive (biased) circuit configuration for fast rise time (fast detection) and high sensitivity
- No sensitivity adjustment required. The light detector is AC coupled to the amplifier
- Analog differential signal output for higher immunity against environmental electrical noise
- Mounting on standard photo tripod using a 1/4-20 mounting screw
- Very rugged construction made of aluminum

Product Specifications

- **Lens Diameter:** 75 mm
- **Lens Focal Distance:** 75 mm
- **Field of View:** 7.6 degrees
- **Detector Spectral Response:** 600-1050 nm
- **Detector Area:** 100 mm²
- **Output Signal (nominal):** +/- 2 Volts differential, 50 Ω
- **Rise Time:** < 5 μ s (200 kHz frequency minimum)
- **Power Supply:** 12 Volts, 12 mA
- **Weight:** 3.6 kg



Acoustic Transducer (AT-01)

The Infinition Inc. acoustic transducer has been designed to detect very strong soundwaves generated by various gun firings.

- Includes a piezoelectric pick-up and a built-in amplifier to provide operation over long ranges
- Power and signal share the same cable, allowing a simple coaxial cable to be used
- No sensitivity adjustment required
- Analog differential signal output for higher immunity against environmental electrical noise
- Mounting on standard photo tripod using 1/4-20 mounting screw
- Heavily rugged construction allows the transducer to be placed extremely close to the muzzle

Product Specifications

- **Output Signal:** +/- 3 Volts
- **Power Supply:** 12 Volts, 2 mA
- **Weight:** 1.0 kg

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