SYDOR TECHNOLOGIES



INFINITION TRIGGER DEVICES

COMPLEX MEASUREMENTS—CRITICAL RESULTS

ABOUT THE 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 ¼-20 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 mm
- Detector Area: 100 mm²
- Output Signal: +/- 2 Volts differential, 50 Ω
- Rise Time: < 5 µs (200 kHz frequency minimum)
- Power Supply: 12 Volts, 12 mA
- Weight: 3.6 kg



ABOUT THE 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 ¼-20 mounting screw
- Heavily rugged construction allows the transducer to be placed extremely closed to the muzzle

PRODUCT SPECIFICATIONS

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



INFINITION

Sydor Technologies is a proud distributor for Infinition

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