

MIL-RUGGED REMOTE FIRING DEVICE

ELECTRIC/SHOCK TUBE INITIATION



Features:

- GD-OTS's RFD initiates BOTH **nonel** shock tube AND electric caps and disrupters.
- The powerful shock tube initiator (STI) provides a larger, more powerful flash than conventional STIs to reliably initiate nonel.
- Electric shots receive a strong, 300 volts/3.6 joule current. Compare to a 70-cap blasting machine.
- Each RFD transmitter will permit initiating up to five different shots in sequence per series.
- The number of simultaneous initiations the RFD can perform per shot is unlimited, provided that the operator is equipped with a receiver for every initiation point.
- The wireless command system features frequency-hopping, spread spectrum technology and 64-bit safety/security encryption.
- Each receiver unit is programmed to respond only to commands from the transmitter it is shipped with – for an additional measure of safety and security. When ordering additional or replacement receivers, the new receivers can be properly coded by referencing the transmitter serial number.
- Ruggedized packaging for tactical environments at high and low temperature extremes. Water-proof.

Specifications subject to change without notice.

Sales are restricted to U.S. Federal, State and Local Government agencies, unless special permissions are obtained from the U.S. Government.

Encrypted, Frequency-hopping, spread-spectrum radio links maximize range and security.

GENERAL DYNAMICS

Ordnance and Tactical Systems

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Product Specifications

Physical

Dimensions	4"W x 2"D x 7.0"L
Weight	Receiver: 1.33lbs, Transmitter: 1.15lbs

Performance

Usable Range	2.5 miles (4 km) clear LOS (see note 1)
Initiator Output	300 Volts / 3.6 J (90-cap rated)
Arming Time	5 minutes safe separation
Power Source	3 - 1.5V AA commercial alkaline batteries
Battery Life	Transmitter: 7.8 hrs, Receiver Armed: 10.5 hrs (see note 2)
Shock Tube Capable	0.120-inch nominal and 0.150-inch nominal diameter
No. Firing Channels	5

Wireless System

Frequency	900 MHz (902-928)
Link	Frequency-hopping, spread-spec- trum
Security	64-bit digital encryption times 3
Transmitter Power	1W
Antenna Gain	2dBi minimum
Receiver Sensitivity	-100dBm typical @76.8 kbps

Environment

Low temperature	Storage: -65°F, Operation: -4°F (see note 3)
High temperature	Storage and Operation: 158°F
Thermal Shock	Rapid transition between - 4°F and 158°F
Drop height	4-ft onto hard concrete, all sides and corners
Moisture Resistant	Yes – waterproof (rain, float)
Vibration	Transportation and Loose Cargo in accordance with MIL-STD-810F, Test Method 514.5

Contents of a MHRFD Kit (5-receiver kit shown).



- 1 - Transportation and Storage Case
- 2 - Transmitter Unit
- 3 - Receiver Units (5 shown)
- 4 - STInger shock tube adapters
- 5 - Commercial AA batteries (3 per module)
- 6 - Compression nuts for 0.15" shock tube
(1 per receiver)
- 7 - Safe-Arm Key Card on Neck Strap
- 8 - STInger recarbonization kit
- 9 - Receiver number labels
- 10 - Computer Disk; contains User Manual,
Training Slideshow, Quick Reference Card
- 11 - User Manual
- 12 - Quick Reference Card

Notes:

- 1) Actual range will vary depending upon atmospheric conditions and terrain effects.
- 2) Based on fresh Duracell PRO AA alkaline batteries.
- 3) Commercial batteries may not function properly at this temperature.

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