

RFO System (Remote Firing Option)

Patent Pending

Product Summary

The RFO is a drop-in kit that adds remote control capability to the weapon in a motorized turret.

Features/Benefits

- Allows option of manned or remote weapon operation.
- Allows threat engagement with greater accuracy and maximum protection.
- Remote control via RFO user interface.
- View the threat environment on hi-res video display.
- Major Improvement in crew survivability and system effectiveness.

Description

The **RFO** System is a kit that drops into the pintle of an existing motorized turret, and it provides remote control of both the weapon and the turret. The RFO consists of low-cost, commercial-off-the-shelf components. These "plug-and-play" components include a remote fire solenoid, low light camera, user interface with color display, joystick and trigger. The RFO weapon system is simple to operate with minimal training, and provides a major tactical advantage by allowing the gunner to deliver suppressive firepower from a protected position.

The RFO System utilizes an intuitive user interface that incorporates a built-in high-definition display. Joystick and trigger controls are straight forward, allowing for quick training and qualification.

Depending on threat/situation, the RFO provides the gunner with the option of manual turret operation, or remote operation. Manual operation provides superior situational awareness, while remote operation provides dramatically improved protection by operating from within the hull of the vehicle. Remote mode also provides improved accuracy and much greater targeting distance due to the RFO's excellent optics and display.

RFO is a modular upgrade to existing ITDS turrets and other platforms. It does not interfere with current armor configurations. Existing fleets can be incrementally upgraded at the Field Depot Level or Theater Storage Area (TSA) in less than one day. The RFO improves lethality while maximizing vehicle mission time.

When in remote mode, the RFO:

- Locks the gun in alignment with the camera
- Enables the firing solenoid
- Activates camera, and user interface for control of the weapon
- The gunner then uses the user interface to locate and engage the target.



Turret with RFO System



RFO User interface



RFO enables remote operation of the turret while protected inside the vehicle.

About Us

Control Solutions has been providing military systems for over 30 years. Our Turret Control System (TCS) have been fielded on over 70,000 platforms including HMMWV, MATV, JLTV and MRAPs in use by militaries all over the world.







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		RFO	Specification	ons			
			System	/11 <i>5</i>			
	Shock MIL-STD-810G, 516.6						
	Vibration	MIL-STD-810G, 514.6 procedure 1					
	Input Voltage	24VDC; 15 A Max (Traverse and elevation operation)					
	Weight	45kg					
	Temperature	Operating: -20° to +60°C Storage: -40°C to 85°C 5% - 95% non-condensing MIL-810G, 507.5					
	Humidity						
	Sealing						
	Salt Spray	MIL-STD-509.6					
	Data Interface	CAN J1939					
	Video Input Capable of supporting 2 Independent NTSC video inputs						
	Weapon Elevation Limits						
			ser Interface				
	Display	5.0 inch VD sunlight readable					
	EMI/EMC	MIL-STD 461; MIL-STD 464					
	Accessories	Molle Holster					
		Care Kit					
		Hard Case					
			Camera				
	Video Format	NTSC					
	Resolution	1080P					
	Zoom	32X Optical Zoom; 4X digital Zoom (128X Total Zoom)					
	Low-Light Capable	Dusk to Dawn					
		Target Size Man			Vel	Vehicle	
		Zoon	n Level	1	32	1	32
			Day	318	3563	665	4813
		Detect Recognize	Night	226	1338	483	1872
			Day	127	2184	279	3370
			Night	86	820	193	1366
		Identify	Day	85	1641	187	2720
1							
		Identify	Night	56	595	126	1066
		Identification Man sized Vehicle size	Night at full optical target = 1.75 zed target = 4	zoom >2500n sq. meters sq. meters			
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