

FIRE CONTROL RADAR OPTICAL

Mastering Control, Securing Seas

MANTA 2D represents a basic groundbreaking radar and electro-optical fire control system, intricately engineered to provide precise command over naval assets in their operations against surface and coastal targets. Through a meticulously designed fusion of FMCW radar and EO technologies, this system serves to elevate naval capabilities, delivering peak performance in the critical tasks of tracking and neutralizing a wide array of threats encountered at sea and along shorelines.



AANTA

Key Features



Target Tracking and acquisition in both radar and EO

(((o)) Multi-Sensor Integration for a comprehensive and multi-sensor approach to target tracking and identification



Day and Night Target Identification by high performance Day and TV Camera



Range Measurement for effective fire control



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Automated adjustment to scan radar contact signals

Stabilization System for platform motion and

ensure steady tracking

Low Probability of Intercept (LPI) through low transmitter power

Surveillance Mode with adjustable scan sector for the radar



Technical Specifications

Radar		Electro Optics			
Radar Type	Frequency Modulation Continuous Wave (FMCW) Low Probability of Intercept (LPI) Radar	Day-Light Camera			
Frequency Band	X-Band (9400 MHz +- 40 MHz)	Sensor Type	1/2.8"Progressive	Scan CMOS	
Detection work sector	1° to 360° in azimuth	Field of View (FOV)	1.2°~ 42°		
		Fog penetrating	Open /Close is optional		
Detection Distance (max)	30 km (16 NM)	Video resolution	1080p		
Resolution	6 meter in range 1° in azimuth	Monitoring distance	Object	Human (1.8m×0.5m)	
Peak Power Transmit	10 Watts		Detection	4000m	
			Recognition	2000m	
otator Platform		Thermal Imaging			
Angle	360° Azimuth	Camera			
Speed	0.01°- 72°/s Azimuth	Detector			
Period Rotation	5 Sec per rotation	FOV	1.8°×1.5°~20.6°×15.5°		
		Pixel	640x512		
		Spectrum Range	3.7~4.8µm		
		Monitoring distance	Object	Human (1.8m×0.5m)	
			Detection	11000m	
			Recognition	3400m	
			Identification	1650m	
		Photoelectronic platform			
		Angle	-45° to +45°		
		Speed	0.01°- 60°/s Elevation		
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MINDMATICS

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