TRVG-S

AEROMAC

MARINE ISR SYSTEM

OPERATIONAL CAPABILITIES

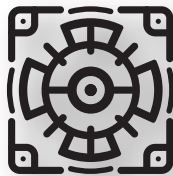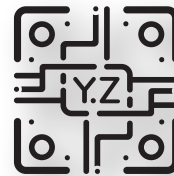| Target Tracking	EO & IR
Target Detection and Classification	
Target Localization and Distance Estimation	
Object Types for Maritime Target Classification	Boat
	Unmanned Surface Vessel
	Ship / War Ship
	Floating Object (Human, Buoy, Sealight)
	Others
Object Types for Land Target Classification	Vehicle
	Human
	Animal
	Herd
	Anti-Tank Weapon
	Military Vehicles
	Others

ADVANCED FEATURES
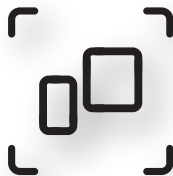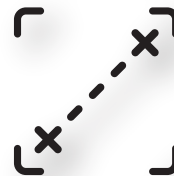
Target Tracking

Inertial Measurement Unit
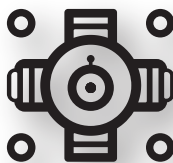
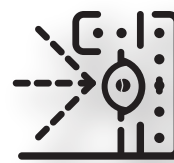Integrated AI Processor

Object/Obstacle Detection

Object/Obstacle Classification

Object/Obstacle Distance Estimation

Compatibility to Autonomy

Simultaneous 360º Detection

Laser Range Finder

TRVG-S

MARINE ISR SYSTEM

AEROMAC

Electro-Optical Camera		Detection	Recognition	Identification
Focus Length	6mm – 300mm	Human	5500m	3000m	2200m
Zoom	50 X	NATO Target	25000m	9000m	5500m
Wide FOV	60° x 46,6°				
Narrow FOV	1.79° x 1.35°				
Resolution	2048 x 1536				
Special Capabilities	Electronic Image Stabilization				
	Auto Focus				
	Fog Reduction				
	Heathaze Reduction				

Infrared Camera		Detection	Recognition	Identification
Detector Type		Human	4200m	1400m	750m
Focus Length	Cooled Mid-Wave Infrared (MWIR)	NATO Target	16000m	5500m	2600m
Optical Zoom Level	20 X				
Wide FOV	35.5° x 28.7°				
Narrow FOV	1.83° x 1.47°				
Resolution	640 x 512				
Special Capabilities	Electronic Image Stabilization Auto Focus Black Hot/White Hot Selection				

Laser Range Finder (LRF)	
Measurement Range (Maximum)	15000m
Measurement Range (NATO Target)	≥6500m
Measurement Accuracy	≤1m

System Specifications	
Dimensions	52 x 40 cm
Weight	~32 kg
Pan Axis Rotation Range	n x 360°
Tilt Axis Rotation Range	-90° / +90°
Pan Axis Speed	0.01°/sec -->120°/sec
Tilt Axis Speed	0.01°/sec -->100°/sec
Axis Accuracy	<0.1°
Mechanical Stabilization	Available
Moving Object Tracking	Available
Distance and Position Estimation	Available

AI Capabilities	
Change Detection	Available
Moving Object Detection	Available
Object Detection	Available
Object Classification	5+ Class Including Ship, Boat, Person, Vehicle, Small Vesseland Buoy
Object Tracking	32 Objects concurrently (can be increased)
Intrusion Detection and Virtual Fence	Available
Target Localization and Distance Estimation	Available

Video Precessing	
Image Stabilization	Electronic
Multi-profile Streaming	Available
Customizable Codec Compression	Available