

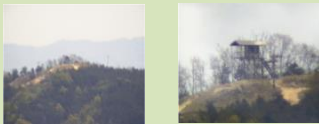
Marinized Electro-Optic Tracking System

SR-Z400M



- Laser Range Finder
 - Detection 20 km
 - 1,570nm, Eye Safe(Class-1)
 - Accuracy : $\pm 5m$

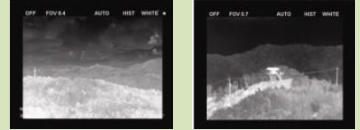
- Long Range D/N Camera
 - Full HD, Optical Zoom



Wide

Narrow

- Thermal Camera
 - MWIR / LWIR Thermal Camera
 - Continuous FOV/Auto Focus
 - High Resolution : 640x480



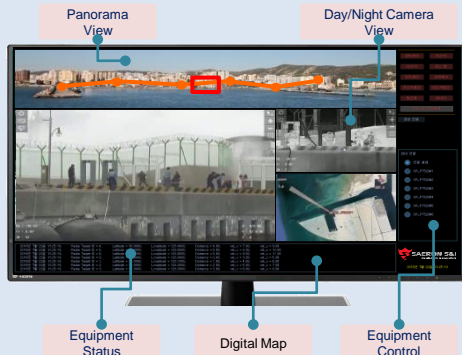
Wide

Narrow

- Operation
 - Azimuth : 360° Endless, 90°/sec
 - Elevation : -60° / +90°, 60°/sec
 - Accuracy : 0.01°

- Motion Stabilization
 - 2 or 3 axis Gyro Stabilizer (Additional Electronic Stabilizer)
 - BIT (Built In Test)
 - Embedded Processor
 - GPS & Digital Compass(Optional)
 - Radar Interlocking(option)
 - Auto Tracking(option)

Operation Software



Auto Tracking/Radar Interlocking

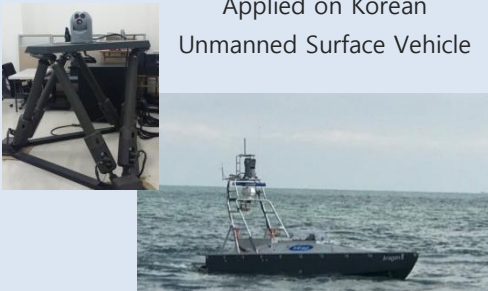
Auto Tracking Feature for UAV and Boat



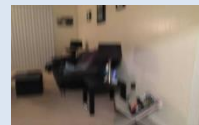
Mounted on USV

Full Motion Stabilization

Applied on Korean Unmanned Surface Vehicle



Onboard Video Processor



Digital Image Stabilizer



Anti Fog



On Screen Display



Video Fusion

Marinized Electro-Optic Tracking System

SR-Z400M

ITEM	SR-Z400M	
Thermal Camera	Spectral Range:	Cooled, 3 to 5 μm
	Resolution:	640 x 512
	Focal Length:	19 to 275mm
	F Number:	f/5.5
	Field of View:	28.3° ~ 2.0°
	Optical Zoom:	15x
	Digital Zoom:	Continuous 5.5x
	Pixel Pitch:	15 μm
	NETD:	≤ 20 mK
	Video Format:	NTSC/PAL
	Frame Rate:	60 Hz (30 fps)
	Focus System:	One-Shot Auto / Motorized Manual
	Image Processing:	Noise Reduction, Edge Enhancement, Sharpness, AGOC, AGC, AOC, AGC ROI
	Detection Range Human Target* NATO Target**	9.2 km 15.5 km
Recognition Range Human Target* NATO Target**	2.9 km 6 km	
Color Camera	Sensor Type	1/2.8 inch CMOS
	Image Resolution	1920(H) x 1080P(V), 1280 X 1024, 1280 X 960, 1280 X 720P
	Focal length	4.3 ~ 129mm, 30x Optical Zoom, 12x Digital Zoom
	FOV	H 61.5°(Wide) ~ 2.3°(Tele)
Laser Range Finder	Laser wavelength	1.5 μm , eyesafe
	Detection Range	10km for 2.3x2.3m Nato Target
	Measurement Rate	0.2, 1, 4, 10 Selectable
	Accuracy	0.5 ~ 1.5m
Laser Pointer	Laser Type	Green Laser for Designation
Controller	Controller Type:	Panel Mount Controller
	Display:	10.2" Touch LED
	Interface:	RADAR, GPS, Ethernet, RS232/RS422
	Features:	Built-In-Test, Stabilization Select Real-Time Monitoring, Network Control
Gimbal	Diameter	322 mm
	Height	449 mm
	Weight:	< 28 kg (4 axis)
	Pan Range :	360° continuous
	Tilt Range :	-60° +90°
	Max Speed:	Pan : 60°/s, Tilt : 60°/s
	Power Requirement:	22-34 VDC, 500 W(max.)
	Operating Temperature:	-20°C to +55°C
	Environmental Rating:	MIL-STD-810G
	Tracking	Auto Video Tracking (Option)
Gyro:	4 Axis Gyro Stabilization System (2 or 3 Axis Gyro Stabilization Available)	

* Zoom Lens for EO and IR can be replaced by customer's requirement