

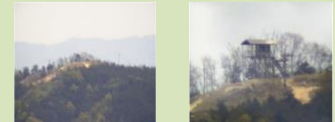
Stabilized Gimbal Auto Tracking System

SR-Z400



- Laser Range Finder
 - Detection 10 km, Aircraft
 - 1,570nm, Eye Safe(Class-1)
 - Accuracy : $\pm 5m$

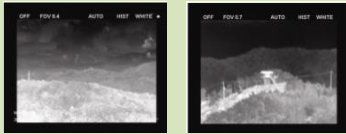
- Long Range D/N Camera
 - Global Shutter
 - CMOS 1920x1080



Wide

Narrow

- Thermal Camera
 - Detection 10km, Aircraft
 - Continuous FOV/Auto Focus
 - High Resolution : 640x480



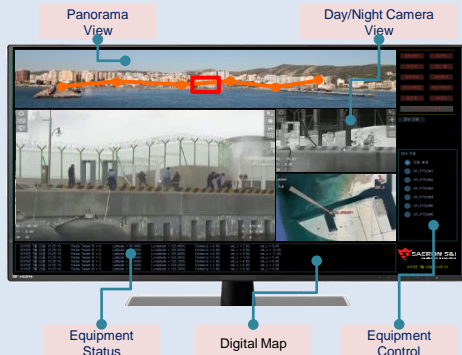
Wide

Narrow

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

- Motion Stabilization
 - 4 axis Gyro Stabilizer (Dual Pitch and Dual Yaw)
 - 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



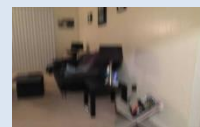
Mounted on UAV

Full Motion Stabilization

Applied on Korean Unmanned Surface Vehicle



Onboard Video Processor



Digital Image Stabilizer



Anti Fog



On Screen Display



Video Fusion

Stabilized Gimbal Auto Tracking System

SR-Z400

ITEM	SR-Z400	
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
Color Camera	Sensor Type	HD CMOS Global Shutter
	Image Resolution	1920(H) x 1080P(V)
	Zoom	30x Optical Zoom, 16x Digital Zoom
	FOV	H 54°(Wide) ~ 2.0°(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	830nm
Controller (Option)	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 : Tilt Range :	360° continuous -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 & 3 Axis Gyro Stabilization Available)