

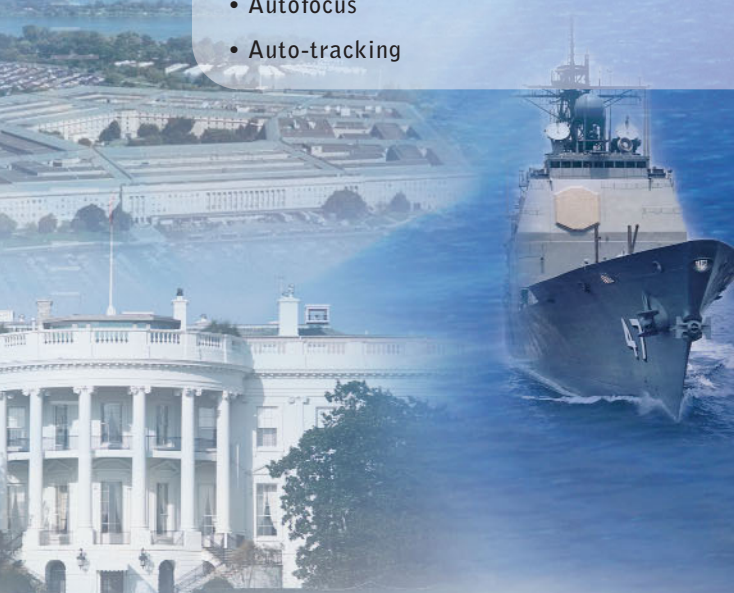
GROUND-BASED EO/IR IMAGING SYSTEM

SONOMA EAGLE STABILIZED IMAGING SYSTEMS

The Sonoma Eagle ultra high-performance EO/IR stabilized imaging system is designed for long-range surveillance and reconnaissance on shipborne and ground-based platforms. Sonoma's Eagle combines precision stabilization technology, X-Mast™, long focal length and shared aperture Hydra™ lenses to ensure mission success through increased stand-off and excellent image clarity.

KEY FEATURES

- Unmatched stabilization maximizes imaging performance
- Shared aperture Hydra-11™, 11-inch telescope in both visible and IR saves space and weight
- Integral laser rangefinder
- Ruggedized gimbal electronics box (GIB) offers additional image processing functionality
- Target detection capabilities out to 55 miles
- SMPTE 292/296 HD-SDI digital outputs
- Slew-to-cue capabilities for integration with multi-source correlator tracker
- Autofocus
- Auto-tracking



WHEN THE MISSION MATTERS

PHYSICAL CHARACTERISTICS

Active Gyro-Stabilization	5-axis
Platform Range of Motion	Elevation: +100° to -30°; Azimuth: 360° continuous
Platform Angular Velocity	1.5 radians/sec
Envelope Dimensions	43 in H, 28 in D, 30 in W
Weight (Turret with Sensors)	450 lbs

SENSOR #1 INFRARED

Lens Type	Sonoma Hydra-11™
Primary Aperture	11 in
Sensor	3-5 μm InSb detector
NFOV (Mechanical)	< .7° horizontal
MFOV (Mechanical)	5.2° horizontal
WFOV (Mechanical)	22.3° horizontal
Resolution	640 x 512 pixels
Signal format	Analog and digital outputs available

SENSOR #2 VISIBLE SPOTTER IMAGER

Lens type	Sonoma Hydra-11™
Primary Aperture	11 in
Sensor	3-chip high-resolution visible camera
NFOV Aperture Diameter	10.82 in (275 mm)
Focal Length	4800 to 1400 mm
Signal Format	SMPTE 282

SENSOR #3 LOOK AROUND ZOOM (LAZ)

Sensor	3-chip high-resolution visible camera
NFOV Aperture Diameter	5 in
Fields of View	0.53° to 14.4° horizontal
Focal Length	40 to 1200 mm
Signal Format	SMPTE 282

SENSOR #4 EYE-SAFE LASER RANGEFINDER

Rangefinder Type	Erbium-glass
Range Accuracy	< ±5 m (1 sigma)
Max. Range	20 km

BENEFITS

- Longer stand-off
 - Assess and mitigate threats at longer distances
- Superior 24/7 proven reliability
 - Ruggedized design protects against severe cold, heat and corrosion
- Situational awareness
 - Wide field of view EO & IR sensors are matched, providing accurate event recognition

APPLICATIONS

- Force protection in close quarters from surface threats
- Identification of airborne targets
- Harbor surveillance
- Air support operations
- Positive target ID
- Reconnaissance
- Precision targeting



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