
LERITY

ALCEN

CAT EYE SYSTEM

Active* & Stationary Panoramic Surveillance System



APPLICATIONS

Observation

- 24/7 surveillance
- Adjustable surveillance area
- Panoramic surveillance
- Horizon scanning

Security

- Target acquisition and tracking
- Automatic event detection
- Multi-threat detection

INNOVATIONS & FEATURES

- Long-range identification
- Ultra-low-light sensor
- Embedded Active Imaging
- Gyrostabilized Pan & Tilt
- Fully remote control
- Easy integration and maintenance
- Ruggedized according to MIL-STD
- Modular architecture

* In cases of poor visibility, pulsed laser illumination synchronized with camera exposure

Ultra-High performance
in deep night as in daylight

cameras & vision systems

VISIBLE / NEAR Narrow Field of View CHANNEL

	Field of View	Sensitivity	Input Light Range	Resolution
FOV SENSITIVITY RESOLUTION OPTIMIZATION	2.3°(H) × 1.3°(V)	Up to night level 3 in passive mode	0.01 to 100,000 Lux	2 MP Full HD
	IFOV	VIS/NIR/BP	Focus	Sensor
	20 μrad	3 Spectrum filter selection	Manual/Permanent	sCMOS Monochrome
	Continuous Digital Zoom	Dynamic Range Contrast DRC	Noise Filter Sharp Filter	Optimization
	×1 to ×4	On/Off/Global or local	Manual/Automatic	Digital stabilization

VISIBLE Wide Field of View CHANNEL

	Field of View	Sensitivity	Input Light Range	Resolution
FOV SENSITIVITY RESOLUTION OPTIMIZATION	16.5°(H) × 9.3°(V)	Up to night level 2	0.1 to 100,000 Lux	3.2 Mp
	eZOOM	Dynamic Range Contrast DRC	Noise & Sharp Filter	Sensor
	×1 to ×4	On/Off	N/A	CMOS Monochrome

ILLUMINATOR

	Wave Length	Illuminated Field	Safety	DNDO
EYE SAFETY	850nm	1.3°(H) × 1.3°(V)	Class 3B	< 8m
	Mode 1	Mode 2	Mode 3	Eye Safety
	Continuous with auto-matic power control	N/A	Optical Sight Detector	Automatic shutdown

PAN & TILT Unit

	Pan Range & Speed	Tilt Range & Speed	Accuracy	Stabilization
RANGE-SPEED ACCURACY	N×360° 0.001°/s to 100°/s	± 90° 0.001°/s to 80°/s	0.02°	± 300 μrad

COMMAND & CONTROL

MAIN FEATURES	Real-time Observation – Full HD Restitution Format	Digital Map
	Pan/Tilt, Zoom/Focus, Single picture, picture in picture, panoramic picture, sector scanning with presets	Multilayer support: map, target, exclusion and alarm zones, drawing and measurement tools Multi-sensor support: radar, AIS, GPS
	Video Analysis and Recording	Video Surveillance Integration
	Automatic detection & video tracking, Video and snapshot recording: H264/MPEG/JPEG	Slew-to-cue mode Target tracking

INTERFACE / ENERGY/ COMMUNICATION / MAINTENANCE

	Weight	Dimensions	Voltage	Power
WEIGHT DIMENSION INTERFACE COMMUNICATION	< 28 kg	607 × 328 × 355 mm ³	24 to 48 VDC	135 W
	Communication	Protocol	Workstation	Maintenance
	Eth 10/100 Base-T RS-232, RS-485/422, NMEA Input	DCP- PT Protocol	Desktop PC 21" display with night mode Joystick	Comprehensive Built-in Test

ENVIRONMENTAL

	Temperature	IP	Shocks & Vibration	EMI/EMC
TEMPERATURE SHOCKS VIBRATION	[-30°C – +55°C] functional 1,100 W/m ² Solar Radiation	IP67	MIL-STD 810 F	MIL-STD 461-F



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