
LERITY

ALCEN

CAT EYE SYSTEM XLR

Active* & Panoramic Extra-Long-Range 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

- Extra-Long-Range identification
- Ultra-low-light sensor
- 200 W light illuminator
- Embedded Active Imaging
- Class 1 Laser Range Finder
- Gyrostabilized Pan & Tilt
- Ruggedized according to MIL-STD
- Modular architecture

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

Ultra-High Performance for
Extra Long Range in any Condition

cameras & vision systems

VISIBLE / NEAR IR Narrow Field of View CHANNEL

	Field of View	Sensitivity	Input Light Range	Resolution**
NFOV SENSITIVITY RESOLUTION	Under NDA	Up to night level 3 in passive mode	0.01 to 100,000 Lux	Under NDA
	IFOV	VIS/NIR/BP	Focus	Sensor
	20 µrad	3-band selection	Manual/Automatic	sCMOS Monochrome

ILLUMINATOR**

	Wave Length	Illuminated field	Max Optical Power	NOHD
2 SOURCES EYE SAFETY MODE	1	Under NDA		
	2	Under NDA		
	Mode 1	Mode 2	Mode 3	Eye Safety
Under NDA				

VISIBLE Wide Field of View CHANNEL

WFOV SENSITIVITY RESOLUTION	Field of View	Sensitivity	Input Light Range	Resolution**
	Under NDA	Up to night level 2	0.1 to 100,000 Lux	Under NDA

LRF

MEASURE OF DISTANCE	Wave Length	Detection Range	Safety	Divergence
	1,556 nm	14.5 km (2.3 m × 2.3 m)	Class 1	0.35 mrad

PAN & TILT Unit

RANGE – SPEED ACCURACY	Pan Range & Speed	Tilt Range & Speed	Accuracy	Stabilization
	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
	PTZ/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 / POWER / COMMUNICATION / MAINTENANCE

WEIGHT DIMENSION INTERFACE COMMUNICATION	Weight	Dimensions	Voltage	Power
	< 80 kg	1,370 × 350 × 495 mm ³	24 to 48 VDC	900 W
	Communication	Protocol	Workstation	Maintenance
	Eth 10/100 Base-T RS-232, RS-485/422, NMEA Input	DGP-PT Protocol	Desktop PC 21" display Joystick	Comprehensive Built-in Test

ENVIRONMENTAL

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

** Information on resolution & effective ranges for day/night available under NDA. Please contact us.



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