

CAT EYE HORIZON 20 JAMMER

Day/Night Long-Range Counter-UAS
Identification and Neutralization system



APPLICATIONS

Observation

- 24/7 surveillance
- 40km By Day / 20Km By Night
- Adjustable surveillance area
- Panoramic surveillance
- Horizon scanning

Neutralization

- Jamming

MISSIONS

- Counter UAS
- Aerial Surveillance
- Coastal Surveillance
- Border Surveillance
- Sensitive Site Protection
- Aboard merchant and navy ships: situational awareness and close protection

FEATURES

- Range-gated Active Imaging (pulsed illumination of target)
- Visible & Infrared Cameras
- Eye-safe Laser Range Finder (class 1)
- Gyrostabilized turret
- Conformity to MIL-STD
- Compatibility with different sensors (radar, AIS...) (optional)
- Possibility of integration to different C2 systems / VMS Standard Protocols PELCO & ONVIF
- ITAR free
- Dimensions: 1,495 x 694 x 562 mm³
- Weight: < 150 kg

Ultra-High Performance for
Critical Missions in any Condition

cameras & vision systems

VISIBLE / NEAR IR NARROW FIELD OF VIEW CHANNEL

NFOV SENSITIVITY RESOLUTION	Field of View	Sensitivity	Input Light Range	Resolution
	3.26°(H) x 1.84°(V)	Up to night level 3 in passive mode	0.01 to 100,000 Lux	8.3 MP 4K
	IFOV	VIS/NIR/BP	Focus	Sensor
	15 µrad	3-band selection	Manual/Automatic	sCMOS BSI Monochrome

VISIBLE COLOR WIDE FIELD OF VIEW COLOR CHANNEL

WFOV SENSITIVITY RESOLUTION	Field of View	Sensitivity	Input Light Range	Resolution
	11.9°(H) x 6.7°(V)	Up to night level 3 in passive mode	0.1 to 100,000 Lux	8.3 MP 4K
	IFOV	Bayer	Focus	Sensor
	54 µrad	LDI & Bilinear	Manual/Automatic	sCMOS BSI Color

ILLUMINATOR**

SOURCES EYE SAFETY MODE	Wave Length	Illuminated field	Max Optical Power	NOHD
	808 nm	1.1°(H) x 1.1°(V)	200 W	120 m
	Mode 1	Mode 2	Mode 3	Eye Safety
	Automatic power control	Power guided by line of sight	Pulsed for range gating	Automatic shutdown

LRF

DISTANCE MEASURE	Wave Length	Detection Range	Safety	Divergence
	1.54 nm	14.5 km (2.3 m x 2.3 m)	Class 1	0.35 mrad

DRONE JAMMER

JAMMER	Type of Antenna	Frequency Bands	IP	Weight
	Directional	6 Bands covering ISM & GNSS Bands, from 433MHz to 5.8 GHz	IP 66	Approx. 15Kg

PAN & TILT UNIT

RANGE – SPEED ACCURACY	Pan Range & Speed	Tilt Range & Speed	Accuracy	Stabilization
	N x 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, 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		

INTERFACE / POWER / COMMUNICATION / MAINTENANCE

WEIGHT DIMENSION INTERFACE COMMUNICATION	Weight	Dimensions	Voltage	Power
	< 150 kg	1,495 x 694 x 562 mm ³	24 to 48 VDC	2,000 W
	Communication	Protocol	Workstation	Maintenance
	SMPTE ST 2081 6G SDI RS-232, RS-485/422	DCP-PT Protocol	Desktop PC 21" display	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	IP66	MIL-STD 810 F	CE Marquing

IR CHANNEL

Infrared	Spectral Bande	Resolution	Technoly	Champ
Serial	MWIR	640 x 512	Cooling	Under NDA
Optional	SWIR	1280 x 1084	Non-cooling	Under NDA

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

P/N: S0172015796

ALCEN

6 rue Paul Baudry
75008 Paris – France
Tel. + 33 (0)1 40 72 55 00
alcen@alcen.com
www.alcen.com



LERITY

Parc Saint-Christophe – 10 av. de l'entreprise
95862 Cergy-Pontoise – France
Tel. +33 (0)1 34 24 38 20
info@lerity-alcen.com
www.lerity-alcen.com