

CAT EYE

Handheld Active* Imaging Camera



APPLICATIONS

Observation

- Intelligence

Security

- Area surveillance
- Threat detection and identification

Assistance

- Positive identification
- License plate identification

INNOVATIONS & FEATURES

- Long-range identification
- Ultra-low-light conditions
- Embedded Active Imaging
- Embedded image enhancement algorithms
- Full HD
- Low-light level legal identification
- IFOV < 20 μ rad

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

Ultra-High performance vision
in deep night as in daylight

VISIBLE/NEAR CHANNEL

FOV SENSITIVITY RESOLUTION OPTIMIZATION	Field of View	Sensitivity	Input Light Range	Resolution
	2.3°(H) × 1.3°(V)	Up to night level 3 in passive mode	0.01 to 100,000 Lux	2 MP Full HD Monochrome
	eZOOM	VIS/NIR	Focus	Optimization
	× 1 to × 4	Spectrum filter selection	Manual/Automatic	Image stabilization

ILLUMINATOR

EYE SAFETY	Wave Length	Illuminated Field	Laser Classification	DNDO
	850 nm typ.	1.3°(H) × 1.3°(V)	Class 3B	< 8 m
	Mode 1	Mode 2	Mode 3	Eye Safety
	Continuous with automatic power control	Range Gating	Optical Sight Detector	Automatic shutdown

RESTITUTION/RECORDER

DISPLAY RECORDER	Display Monocular		Video/Photo Recorder	
	OLED HD White monochrome Auto Day/Night Mode	Eyepiece with diopter adjustment: -4/+3 Soft eyecup	Video: MPEG Photo: JPEG	128 GB/μSD (8 h autonomy)

LOCALIZATION

GPS DMC LRF	GPS	Digital Magnetic Compass	Laser Range Finder	
	Embedded Accuracy < 5m	Azimuth range: 360° Elevation range: ±15°	N/A (Range)	N/A (Power)

DRI PERFORMANCE

	Vehicle			Human			License Plate Reading	Facial Recognition
	D	R	I	D	R	I		
Day	15 km	12 km	6 km	6 km	4 km	2 km	> 500 m	> 300 m
Up to quarter moon	8 km	6 km	3 km	3 km	2 km	1 km	> 400 m	> 200 m
Deep night	1 km	1 km	0.5 km	1 km	0.6 km	0.4 km	> 300 m	> 200 m

INTERFACE/POWER

WEIGHT DIMENSION INTERFACE BATTERY AUTONOMY	Weight	Dimensions	Remote Display	Remote Control
	< 3 kg with batteries	140 × 220 × 280 mm ³ Standard Tripod Insert	SDI video HDMI video External power	USB RS485/422 GeniCam XML File
	COTS Battery	Battery Autonomy	Battery Charging Time	Remote On/Off
	Type 18650 3.7 V (2×3)	> 5 h	< 2 h	Discrete Command

ENVIRONMENTAL

TEMPERATURE SHOCKS VIBRATION EMI/EMC	Temperature	IP	Shocks & Vibration – MIL-STD-810-G	
	[-20°C, +55°C] functional	IP66	10g half sine 8ms Transit Drop Shocks	3g rms [100Hz – 1,000Hz]
	EMI	EMC	Altitude	Acceptability
	CE (2014/30/EU)	CE (2014/30/EU)	> 1 500m functional	ROHS/REACH

PART NUMBER

P/N	LHS2M3N1.P02MNST02 – Includes: Pack 0 – Accessories
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