

## PILOT CAMERA M

Fully Automatic Monochrome  
Camera for UAVs



### APPLICATIONS

- Landscape camera
- Driving aid

### INNOVATIONS & FEATURES

- Ultra-low-light conditions
- Robustness to direct sun exposure
- Low latency
- CMOS sensor
- Fully automatic
- Designed for harsh environments

PILOT CAMERA M  
**Remote piloting with reliable and  
accurate observation of surroundings**

LANDSCAPE ACQUISITION PERFORMANCE

FOV DISTORSION SENSOR LINE OF SIGHT DYNAMIC RANGE	Field of View	Distorsion	Depth of Field	IFOV
	78.2°(H) × 47.4°(V)	Central area <± 2% Full FOV < ±10%	4 m to ∞	< 0.75 mrad
	Sensor	Mono/Color	Time Exposure	Light Dynamic Range
	sCMOS 2 Mega pixels	Monochrome	Automatic Controlled on Sensor AEC	0.01 to 30,000 Lux

FUNCTIONS

BIT GAIN EXPOSURE CORRECTION DSP	Built-in Test	Gain Control	Time Exposure Control	Gamma Correction
	PBIT-CBIT	Automatic	Automatic	Blending mode
	Sensor Correction	Contrast Correction	H-V Flip	Video Latency
	Blemish correction	Automatic	No additional latency	<40ms
	Color Calibration	White Balance	Debayer	Color Saturation
	N/A	N/A	N/A	N/A

INTERFACE

VIDEO COM POWER LINE OF SIGHT	Control Interface	Power Supply	Power Consumption	Sight Alignment
	RS485 GenlCam XML File	14 VDC RTCA DO160G	6.5 W	< 5 mrad
	Connector Power/Control	Connector Video	TV Standard	Roll Alignment
	D38999 – 23NB35PN	TNC female connector	SMPTE 292 – 25Hz	< 20 mrad

HOUSING

DIMENSION WEIGHT WINDOW AR	Size	Coating	Weight	Optical Window
	153 × 99 × 76 mm <sup>3</sup>	Paint Color – Black	< 770g	AR Sapphire

ENVIRONMENTAL / CONFORMITY

TEMPERATURE HUMIDITY FUNGUS GLAZE RAIN PROTECTION SHOCKS VIBRATION SUN PROTECTION FLUIDS EMI / EMC ALTITUDE SAND AND DUST SALT ATMOSPHERE ITAR	Temperature	Humidity	Fungus	Glaze
	[-40°C – +70°C] functional	95% @ 60°C MIL-STD-810-G	MIL-STD-810-G	MIL-STD-810-G
	Rain	Protection	Shocks	Vibrations
	MIL-STD-810-G	IP 66	7 g half sinus 11 ms STANAG 4370	5.6 g rms [100 Hz – 2,000 Hz] STANAG 4370
	Solar Radiation	Sun Protection	Fluids Contamination	MTBF
	MIL-STD-810-G 1000W/m <sup>2</sup>	Camera fully operational facing the sun	MIL-STD-810-G	>10 000 H AUC 40°C MIL HDBK-217F N2
	EMI STANAG 4370	EMC STANAG 4370	Grounding	Acceptability
	NRS02	NCE05 NCE04 NCS07 NCS12	<2.5 mΩ	ROHS REACH
	ITAR	Altitude	Sand and Dust	Salt Atmosphere
	Free	MIL-STD-810-G	MIL-STD-810-G	MIL-STD-810-G

PART NUMBER

P/N	LHC2M3N1.P02MNST01 Includes: Graphic Unit Interface (GUI)
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