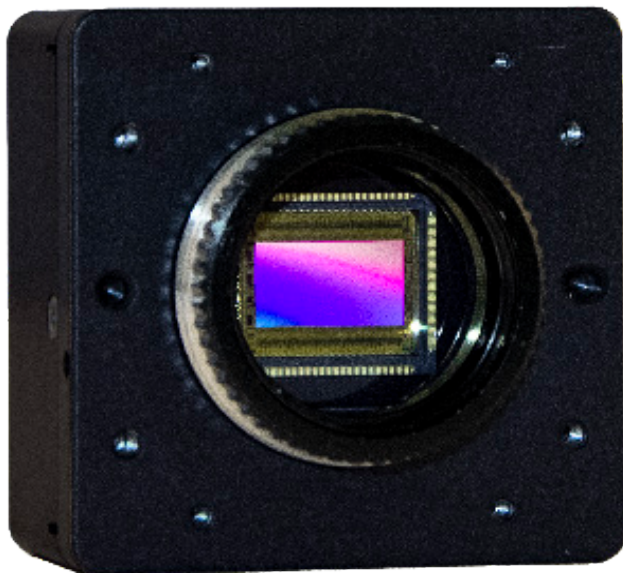


ARTEMIS XS-A M

Compact Ultra-Low-Light
Monochrome Camera Core



APPLICATIONS

Observation

- Enhanced vision system camera

Security

- Homeland security

Assistance

- Driving aid
- Pilot view camera
- Flight test

INNOVATIONS & FEATURES

- Ultra-compact
- Ultra-low-light conditions
- Embedded image enhancement algorithms
- Reduced latency
- 1" 2 MP CMOS Rolling Shutter Sensor
- Full HD
- Dynamic Range > 82 dB
- E@SNR1 < 500 μ Lux
- Qualified for harsh environments

ARTEMIS XS Core,
The Most Compact for Ultra-Low Light

SENSOR

TECHNOLOGY GEOMETRY	Pixel Size [H×V]	Resolution [H×V]	Resolution	Sensor Size
	6.5 μm × 6.5 μm	2048 × 1152	2.3 MP	13.3 mm × 7.49 mm
	Sensor Type	Mono/Color	Shutter	Max Image Circle
	CMOS	Mono	Rolling	14.9 mm

ELECTRO-OPTIC PERFORMANCES

EMVA	Qe @520nm	Read-out Noise	Saturation	Dynamic Range
	>60%	<3.6 e ⁻	>27,000 e ⁻ (RAW)	>80 dB (RAW)
	SNR	DSNU	PRNU	E@ SNR1
	>47 dB	<3.5 e ⁻	<1%	500 μLux

INTERFACE

VIDEO COM POWER SYNCHRO	Control Interface	Power Supply	Video SDI	Analog Video
	RS485/422 GenICam XML File	7-28 Vdc	SMPTE 292 1080p 25-30Hz	CCIR
	General I/O	Power Consumption	External Synchro	Coding
	RS485/422 (×1)	7.3 W	RS485/422	10 bit

FUNCTIONS

BIT GAIN EXPOSURE CORRECTION DSP OPTIMIZATION	Built-in Test	Gain Control	Time Exposure Control	Gamma Correction
	PBIT-IBIT-CBIT	MGC-AGC	MEC-AEC	0.45 – 0.7 – 1 + blending mode
	Sensor Correction	Contrast Correction	H-V Flip	Noise Filter
	Dark current Blemish correction	Manual or Automatic DRC	Yes with no latency	Recursive filter
	Binning Mode	Sharpness	eZOOM	Non-uniformity Correction
	Digital ×2 ×4 ×8	Manual or Automatic	×1 to ×16 continuous	N/A
	Color Calibration	White Balance	Debayer	Color Saturation
	N/A	N/A	N/A	N/A

HOUSING

MECHANICAL	Housing Size	Lens Mount	Weight	Input Filter
	50 × 50 × 28 mm ³	C-Mount	<190 g	N/A

ENVIRONMENTAL / CONFORMITY

TEMPERATURE HUMIDITY SHOCKS VIBRATION EMI / EMC CE / IPC	Temperature	Humidity	Shocks	Vibration
	[-40°C – +71°C] functional	60% max	10g half sinus 8ms	4.5g rms [100 Hz – 1,000Hz]
	EMI	EMC	Grounding	Acceptability
	CE (2014/30/EU)	CE (2014/30/EU)	<10 mΩ	IPC-A610 Class3

PART NUMBER

P/N	S0079013661 Includes: Graphic Unit Interface (GUI), Video cable, Pre-wired IO & Power Connector
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