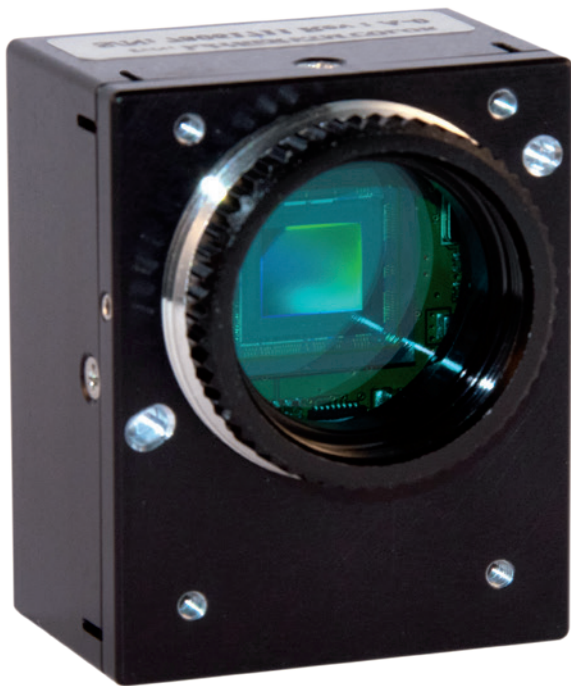

LERITY

ALCEN

AETHER RL 8.9 M

Compact Low-Light Monochrome
Reduced-Latency Camera Core



APPLICATIONS

Observation

- Enhanced vision system camera

Security

- Homeland security

Assistance

- Driving aid
- Landscape camera
- Flight test

INNOVATIONS & FEATURES

- Reduced latency
- Low power consumption
- Low-light conditions
- 1" 8.9 MP CMOS Global Shutter
- 4K
- Dynamic Range > 74 dB
- E@SNR1 < 600 μ Lux
- Qualified for harsh environments

AETHER core,
The Most Compact for Low Light

cameras & vision systems

SENSOR

TECHNOLOGY GEOMETRY	Pixel Size [H×V]	Resolution [H×V]	Resolution	Sensor Size
	3.45 μm × 3.45 μm	4096 × 2160	8.9 MP	14.131 × 7.452 mm
	Sensor Type	Mono/Color	Shutter	Max Image Circle
	CMOS	Mono	Global	15.98 mm

ELECTRO-OPTIC PERFORMANCE

EMVA	Qe @520 nm	Read-out Noise	Saturation	Dynamic Range
	>65%	<2 e ⁻	>10,000 e ⁻	>74 dB
	SNR	DSNU	PRNU	E@SNR1
	>40 dB	<1 e ⁻	<1%	600 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 or CXP 6.25 Gb/s	CCIR or RS170
	General I/O	Power Consumption	External Synchro	Coding
	RS485/422 (×3)	4.2 W	RS485/422	10 bit SMPTE 8-10-12 bit CXP

FUNCTIONS

BIT GAIN EXPOSURE CORRECTION DSP OPTIMIZATION	Built-in Test	Gain Control	Time Exposure Control	Gamma Correction
	PBI-IBIT-CBIT	MGC-AGC	MEC-AEC	0.45 – 0.7 – 1 + blending mode
	Sensor Correction	Contrast Correction	H-V Flip	Noise Filter
	Blemish correction	Manual or Automatic DRC	Yes with no latency	N/A
	Binning Mode	Sharpness	eZOOM	Non-uniformity Correction
	Digital ×2 ×4 ×8	Manual or automatic	N/A	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
	40 × 50 × 25 mm ³	C-Mount	< 150 g	N/A

ENVIRONMENTAL / CONFORMITY

TEMPERATURE HUMIDITY SHOCKS VIBRATION EMI / EMC CE / IPC	Temperature	Humidity	Shocks	Vibration
	[-40°C – +71°C] functional	75% max	40g half sinus 11ms	4.5 g rms [100Hz – 1,000 Hz]
	EMI	EMC	Grounding	Acceptability
	CE (2014/30/EU)	CE (2014/30/EU)	<10 mΩ	IPC-A610 Class3

PART NUMBER

P/N	LHC2M4N1.P09MNST00: SMPTE Video Output LHC2M4N1.P09MNST01: CXP Video Output Includes: Graphic Unit Interface (GUI), Video Cable, Pre-wired IO & Power Connector
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