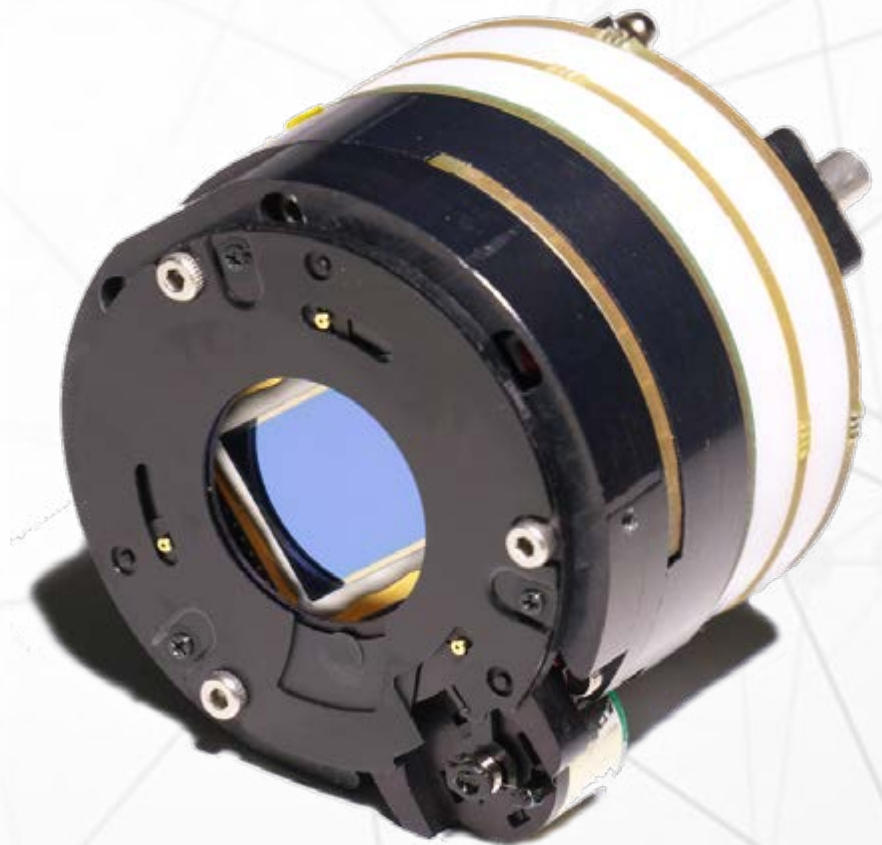




KB VITA

Innovations and unique results



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VS320

SWIR CAMERA FOR INDUSTRIAL APPLICATIONS

SENSOR	InGaAs
CHROMA	Mono
PIXEL SIZE	30 x 30 μm
MAX. RESOLUTION	320 X 256 (640 x 512)
FRAME RATE	25/100 fps (max. resolution)
SPECTRAL RANGE	900 — 1700 nm (400 – 1700 nm)
SENSITIVITY	$5 \times 10^{12} \text{ cm} \times \sqrt{\text{Hz/W}}$
QUANTUM EFFICIENCY	80% max
DYNAMIC RANGE	72 dB
FULL WELL	High: 170 ke ⁻ Low: 3.5 me ⁻
COMPRESSION	NO
INTERFACE	PAL / Camera Link
SYNCHRONIZATION	Input/Output
LENS MOUNT	C/CS
VOLTAGE	12 V
TEMPERATURE RANGE	-40 °C ~ +50 °C
WEIGHT	150 g
DIMENSIONS	Ø 50 X 55 mm



VLM640

POLARIZED LWIR CAMERA

DETECTORS TYPE	VO _x
RESOLUTION	640 × 512
PIXEL SIZE	17 μm
SPECTRAL RANGE	8 — 14 μm
THERMOSTABILIZATION	TEC (single stage)
FRAME RATE (PROGRESSIVE)	25/50 fps
RESOLUTION PAL	768 × 576
ANALOG VIDEO OUTPUT	PAL
DIGITAL OUTPUT (OPTIONAL)	Camera link (14-bit/8-bit, bt.656, Ethernet)
MANUAL	BRIGHTNESS/GAIN
AUTO	BRIGHTNESS/GAIN/CONTRAST
DIGITAL ZOOM	X2/X3/X4
CALIBRATION	MANUAL/AUTO
IMAGE PROCESSING ALGORITHMS	AVERAGING, BACKGROUND, SUBTRACTION, DDE
LOCAL CONTRASTING MODE	
VOLTAGE	DC 3 — 13 V
POWER CONSUMPTION	≤2 W
CONTROL INTERFACE	RS485
OPERATING TEMPERATURE RANGE	-55° ~ +55°C
DIMENSIONS	ø 50 × 45 mm
WEIGHT	≤100 g (including shutter)



NEVA 400

sCMOS BASED CAMERA FOR ASTRONOMY

SENSOR	Gpixel Gsense400BSI-TVISB
RESOLUTION	2048 x 2048
PIXEL SIZE	11 x 11 μm
PHOTOSENSITIVE AREA	22.5 x 22.5 mm
FULL WELL	90 000 e^-
SHUTTER	ELECTRONIC ROLLING
FRAME RATE	Up to 23 fps
NOISE LEVEL	1.6 e^-
QE (peak) @ 550 nm	96%
DURK CURRENT (@ +25°C)	25 e^-/s
DURK CURRENT (@ -20°C)	<0.5 e^-/s
ADC	12 bit
E-MOUNT	(Optional possible)
EXTERNAL SYNCHRONIZATION	YES
SHUTTER SYNCHRONIZATION	YES
HORIZONTAL SYNCHRONIZATION	YES
CONTROL PROTOCOL	Open
DATA INTERFACE	PAL, Camera link BASE
DIMENSIONS	80 x 80 x 50 mm



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