



AisaKESTREL 10

AisaKESTREL 16



DPU

BENEFITS OF AISAKESTREL

- Push-broom imager with high light throughput
- Outstanding spatial resolution of 2 048 pixels
- High sensitivity and SNR in the entire region of 400 - 1 000 nm or 600 - 1 640 nm
- Accurate GNSS/IMU sensor
- Complete UAV system compatible with various platforms
- Multiple system integration options:
Inside UAV either integrated in a mechanical frame or in a gyro stabilization mount, Outside UAV, in a gimbal/turret or in a stabilized mount

AISAKESTREL

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Camera specifications		
Spectral range	400 - 1 000 nm	600 - 1 640 nm
Spectral sampling	1.75 / 3.5 / 7 nm	4 nm
F/#	F/2.4	
Smile / Keystone	< 0.5 pixels	< 0.25 / < 0.5 pixels
Polarization sensitivity	< ± 2%	
Signal-to-noise ratio (peak)	400 - 800	800
Spatial resolution	1 312 or 2 048 pixels	320 or 640 pixels
Frame rate	Up to 170 or 100 Hz	100 Hz
Integration time	Adjustable within frame period	
FOV	40°	21.7° or 40°
Electro mechanical shutter	Yes	
Data interface	CameraLink 12-bit	CameraLink 14-bit
Total System Power (camera, GNSS/IMU, DPU)	< 41 W	< 46 W
Mechanical characteristics (unmounted)		
Size (L x W x H)	Camera	127 x 180 x 225 mm (with front lens), 2.1 kg
	DPU	99 x 215 x 240 mm (with front lens), 2.3 kg
	GNSS/IMU	165 x 154 x 101 mm, 1.6 kg
		120 x 70 x 40 mm, 0.5 kg
Total System Weight	4.75 kg	5.0kg
Environmental characteristics		
Storage temperature	- 5 ... +50 °C	
Operating temperature	+ 5 ... +40 °C, non-condensing	