

# SPECIM



SPECTRAL IMAGING



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## AISAKESTREL



COMPLETE COMPACT HYPERSPECTRAL  
SYSTEM WITH NO COMPROMISES

# AISAKESTREL 10



AISAKESTREL fits to variety of professional UAV platforms.

# AISAKESTREL 16

## BENEFITS OF AISAKESTREL

- Push-broom imager with high light throughput
- Outstanding spatial resolution of 2 040 or 640 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 10	AISAKESTREL 16
<b>Camera specifications</b>		
Spectral range	400 - 1 000 nm	600 - 1 640 nm
Spectral sampling	1.75 / 3.5 / 7 nm	2.75 / 5.5 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	2 040 pixels	640 pixels
Frame rate	Up to 170 or 100 Hz	100 Hz
Integration time	Adjustable within frame period	
FOV	40°	
Electro mechanical shutter	Yes	
Data interface	CameraLink 12-bit	CameraLink 14-bit
Data storage	480 Gb SSD	
Total System Power, typical (camera, GNSS/IMU, DPU)	< 41 W	< 46 W
<b>Mechanical characteristics (unmounted)</b>		
Size (L x W x H)	Camera	127 x 180 x 225 mm (with front lens), 2.1 kg
	DPU	165 x 154 x 101 mm, 1.6 kg
	GNSS/IMU	120 x 70 x 40 mm, 0.5 kg
Total System Weight	4.75 kg	5.0kg
<b>Environmental characteristics</b>		
Storage temperature	- 5 ... +50 °C	
Operating temperature	+ 5 ... +40 °C, non-condensing	