



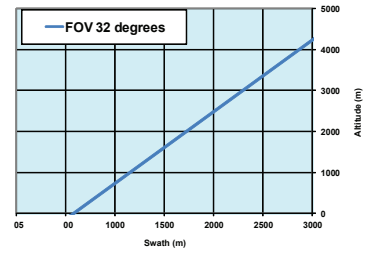
**FOR THE MOST DEMANDING
GEOLOGICAL, LAW ENFORCEMENT AND
ENVIRONMENTAL APPLICATIONS**

AisaFENIX hyperspectral sensor

	VNIR	SWIR
Camera specifications		
Spectrograph	High efficiency transmissive imaging spectrograph	
Spectral range	380 - 970 nm	970 - 2 500 nm
Spectral resolution	3.5 nm	12 nm
F/#	F/2.4	
Smile / Keystone	< 0.2 pixels	
Polarization sensitivity	Throughput practically independent of polarization	
Signal-to-noise ratio (peak)	600 - 1 000:1 *	1 050:1
Spatial resolution	384 pixels	
Frame rate	Up to 100 Hz	
Integration time	Adjustable within frame period	
FOV	32.3°	
IFOV	0.084°	
Swath width	0.58 x altitude	
Altitude for 1m pixel size	660 m	
Electro mechanical shutter	Yes	
Detector	CMOS	Stirling cooled MCT
Spectral binning options	2x 4x 8x	-
Number of spectral bands	348 174 87	274
Spectral sampling / band	1.7 nm 3.4 nm 6.8 nm	5.7 nm
Data interface	CameraLink 12-bit	CameraLink 16-bit
Typical power consumption **	150 W	
Maximum power consumption **	500 W	
Environmental characteristics		
Storage temperature	- 20 ... +50 °C	
Operating temperature	+ 5 ... +40 °C, non-condensing	

*) Depends on spectral binning
 **) Complete system with DPU

Swath width vs altitude from the ground



Ground pixel vs. altitude from the ground

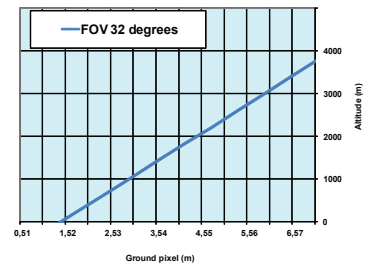


Image rate for square ground pixel @ aircraft speed 60 m/s (120 knots)

