

SPECIM



A Konica Minolta Company

AISAFENIX

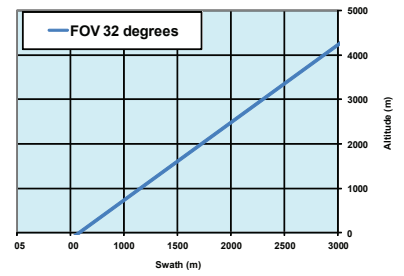


**FOR THE MOST DEMANDING
GEOLOGICAL, LAW ENFORCEMENT
AND ENVIRONMENTAL APPLICATIONS**

| | VNIR | | | SWIR |
|--------------------------------------|--|--------|--------|---------------------|
| Camera specifications | | | | |
| Spectrograph | High efficiency transmissive imaging spectrograph | | | |
| Spectral range | 380 - 970 nm | | | 970 - 2 500 nm |
| Spectral resolution (Mean)* | 3.5 nm | | | 10 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 | | | |

*) Typical spectral resolution obtained by calculating mean data from several units. Exact spectral resolution may vary from unit to unit **) Depends on spectral binning ***) Complete system with DPU.

Swath width vs altitude from the ground



Ground pixel vs. altitude from the ground

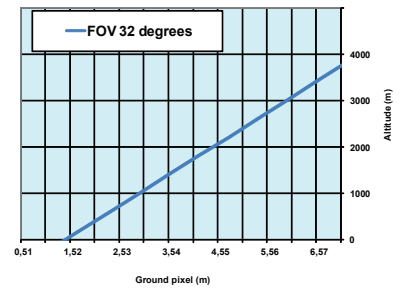


Image rate for square ground pixel @ aircraft speed 60 m/s (120 knots)

