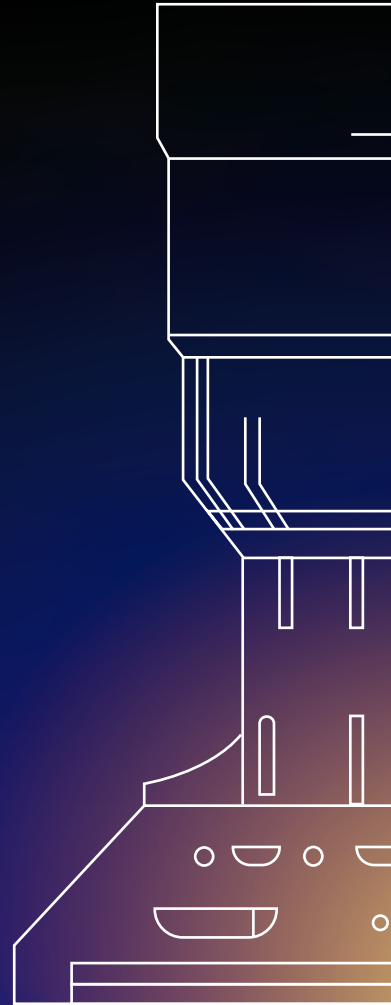
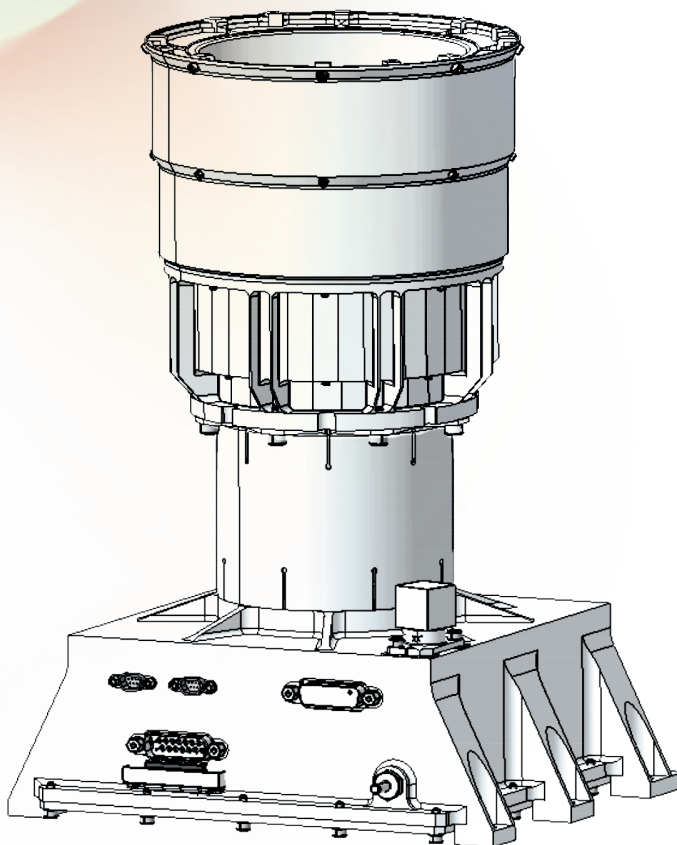
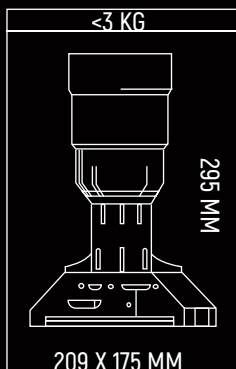


HICAM

SPACE DETECTION & NAVIGATION CAMERA



- SPECIFICALLY DESIGNED FOR DETECTION, SSA, SDA MISSIONS
- BASED ON HYDRA STR OPTICS & OUR HERITAGE ON NAC-ERO
- 1M PIXEL SENSOR • IMAGING & CENTROIDDING DATA
- HIGH ROBUSTNESS & MAGNITUDE UP TO 12,
WITH SPECIFIC COOLING SYSTEM
- GUARANTEED FOR 7/15 YEARS LIFETIME IN LEO/GEO ORBITS
- ECSS CLASS 1



SENSOR CHARACTERISTICS

CAMERA PERFORMANCES

ENVIRONMENTAL CHARACTERISTICS

RELIABILITY, AVAILABILITY AND LIFETIME

ELECTRICAL AND COMMUNICATION INTERFACES

KEY FEATURES

- Optional EGSE and OGSE • Camera Numerical Model available for realistic simulation • Expert technical support available • Compatible with LEO & GEO • Accurate calibration available • High Magnitude
- EU Dual Use 6A003.b.5 – ITAR Free • High reliability and lifetime

END OF LIFE WORST CONDITIONS DATA

Resolution	1024x1024pix / 10µm pitch
Shutter type	Rolling shutter
Programmable Integration time	[240µs - 30s]
Image type	Black & White

Lenses characteristics	VIS rad-hard lenses
Diagonal Field of View – 2 options	17°
Focal length	47,7 mm
Fixed Aperture	F/1.4 (34mm)
Sun Exclusion Angle	26°
Typical detection capability (EOL – 0,001°/s stability – SNR>5)	Magnitude 12 (1cm @100 km) / SNR 2 Magnitude 11,4 (5mm @70 km) / SNR 4 Magnitude 10,5 (50cm @4000 km) / SNR 8

Qualification operating range	-25 to +50 °C (baseplate temp.)
Qualification non-operating range	-40 to + 70°C (baseplate temp)
Storage temperature	-45 to +80 °C

EEE quality grade	ECSS Class 1
Lifetime	7 years in LEO & 15 years in GEO
Reliability	<300 FITS @15°C

Interface	Redounded Spacewire link
Power supply	28 V
Memory	1GB SDRAM embedded
Power consumption	<5W (Stand by) / <12W (Imaging mode)