

4K Space Camera



FEATURES

- Radiation Tolerant Design
- Various Parts Level Available
- 12 Megapixel Camera
- Rad Hard Glass Lens

SPACE CAMERA SPECIFICATIONS (DRAFT)

Dimensions	6.5" L x 7.0" W x 6.0" H
Mass	1.75 kg
Power	60W maximum
4K Resolution Imager	Frame size 4096 pixels by 3072 line, 12 bit Bayer Optical - minimum of .35 at 91 lp/mm across the FOV Up to 130 frames per second
Field Of View	80°
<u>Radiation Tolerance</u>	
Single Event Functional Interrupt	Mitigated with H-Core (Space Micro Patented Watchdog)
Single Event Upsets	1.0 E-3 events per year
Total Ionizing Dose	30 kRad (Si)
Single Event Latch-up	Immune to SEU with 37 MeV-cm ² /mg minimum onset
<u>Electrical Interfaces</u>	
Input Voltage	28V +/- 6
Data Interface	CAUI, CAN
Data Rate	Up to 100 Gb/s
<u>Operating States and Modes</u>	Still Image Capture, 4K Video, Health and Status, Code Upgrade
<u>Mission Assurance</u>	
Temperature Range	-10 to +50° C (Operational) -30 to +50° C (Non-operational)
Vibration	Up to 10 Grms Acceptance
Parts Level Options	Commercial Space, NASA Level I, II, III
Design Life	Up to 5 years LEO

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