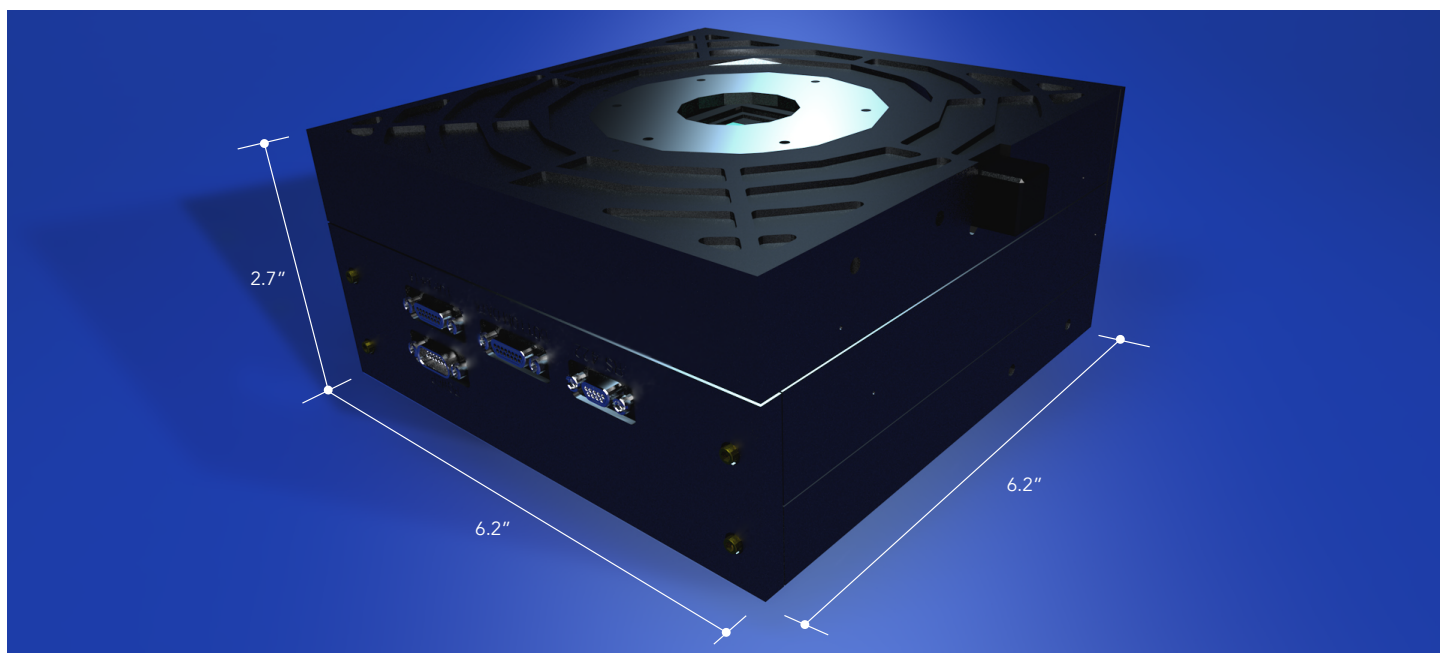


# DISC 5.5+

## Digital Imaging Space Camera



DISC 5.5+ configuration

The Space Dynamics Laboratory's (SDL) Digital Imaging Space Camera (DISC) 5.5+ is a CMOS radiation-tolerant visible camera. DISC 5.5+ features highly flexible on-orbit image control, including windowing, binning, decimation, frame rates, and integration times. Additional features include up to 14 (7 top/7 bottom) regions of interest (ROI), onboard dark frame subtraction, and onboard frame stacking.

The BAE Systems® CIS2521F sensor features very low read noise (<2 e-) and dark current (<6.5 e-/pix/s) at 20°C when using rolling shutter.

DISC 5.5+ is designed entirely of radiation-tolerant components and is suitable for LEO, MEO, and GEO orbits.

### SPECIFICATIONS

Mass	<3.5 kg
Size	6.2" × 6.2" × 2.7"
Resolution	2560 × 2160
Read Noise @ 20°C	<2 e-
Dark Current @ 20°C	<6.5 e-/pix/s
Shutter Mode	Rolling
Frame Rate	Up to 22 FPS
Memory	1 GB (EDAC)
Power	16 W
Environment	Operational: -40°C to +55°C 30 krad(Si) with 100 mil housing Survivability: -40°C to +85°C

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