

AstroVision International, Inc.

Flysheet Specs for Sensor for the AVStar Satellites (Seven Sensors)

1 Wide Field Camera

Full Disk ($\approx 42\%$ of Earth's surface)
True color (3 separate Red, Green and Blue CCDs)
2.75 km resolution
Approximately 1 second refresh rate

2 Narrow Field cameras

Approximately 1,000 x 1,000 km field of view
Independently steerable over full Earth disk
True color (3 separate Red, Green and Blue CCDs)
250 meter resolution
Approximately 1 second refresh rate

1 Multispectral Camera

Approximately 1,000 x 1,000 km field of view
Independently steerable over full Earth disk
10 spectral bands – Near ultraviolet through visible into near IR
250 meter resolution
Approximately 1 second refresh rate

1 Low Light Camera

Approximately 1,000 x 1,000 km field of view
Independently steerable over full Earth disk
Panchromatic (≈ 0.4 microns to ≈ 0.8 microns)
250 meter resolution
Up to 1 second refresh rate (refresh rate dependent upon light levels)

1 Lightning Mapper Sensor

Selected areas of full disk (emphasis on land masses)
Very narrow band filter specific to lightning
Capable to map total lightning full time (24/7/365)
8 km resolution
2 millisecond refresh (update) rate

1 Thermal IR sensor

Approximately 2,100 x 2,800 km field of view
Independently steerable over full disk
9 km native resolution (4.5 km 1/4 step resolution)
Nominal 2 frames per second (35 millisecond refresh rate possible)