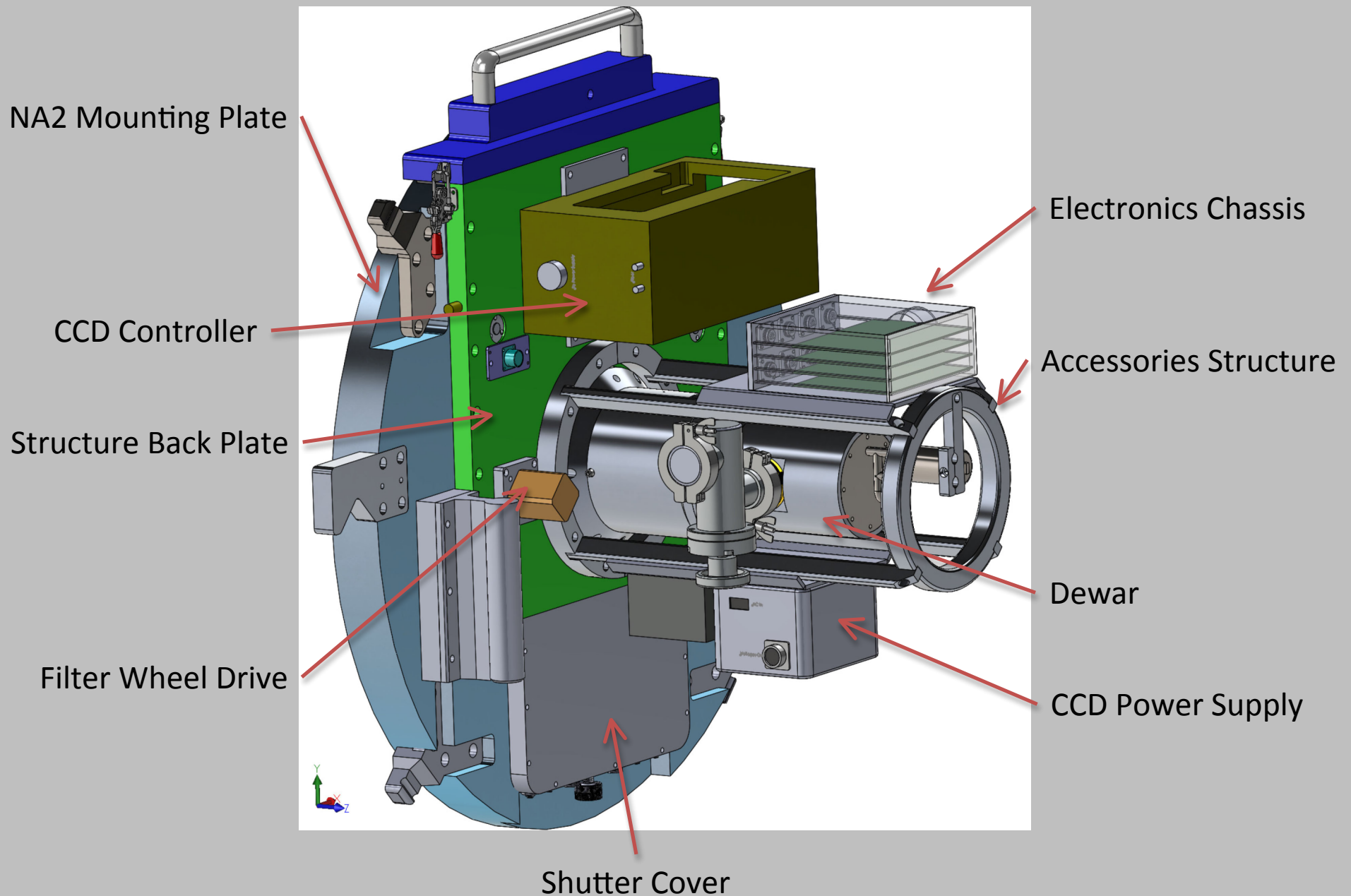


Brief Overview of Imager

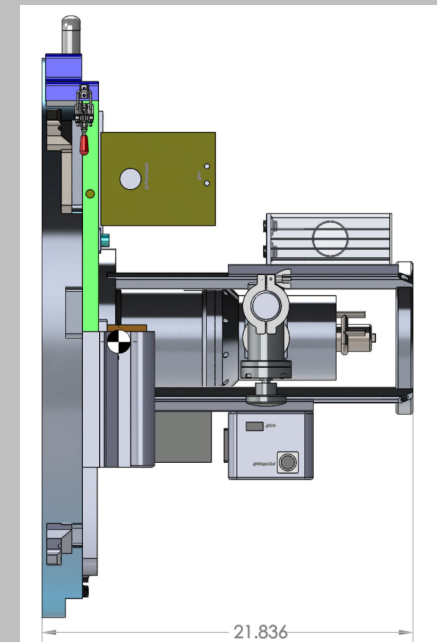
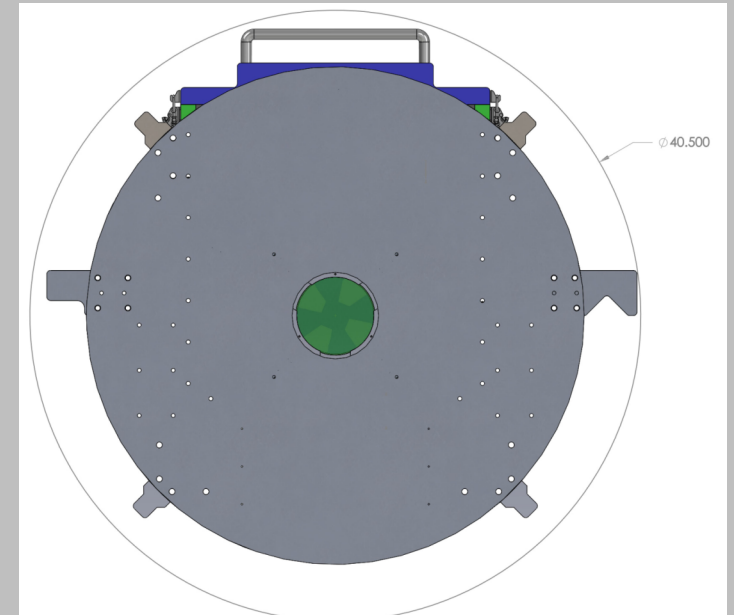
- What is it going to look Like?
- Statistics:
 - Exterior Dimensions
 - Mass Properties
- Main Components
- Optics
- Mechanical Structure
- Shutter
- Dewar
- Exterior Heat Output
- Power Requirements

What is it Going to Look Like?

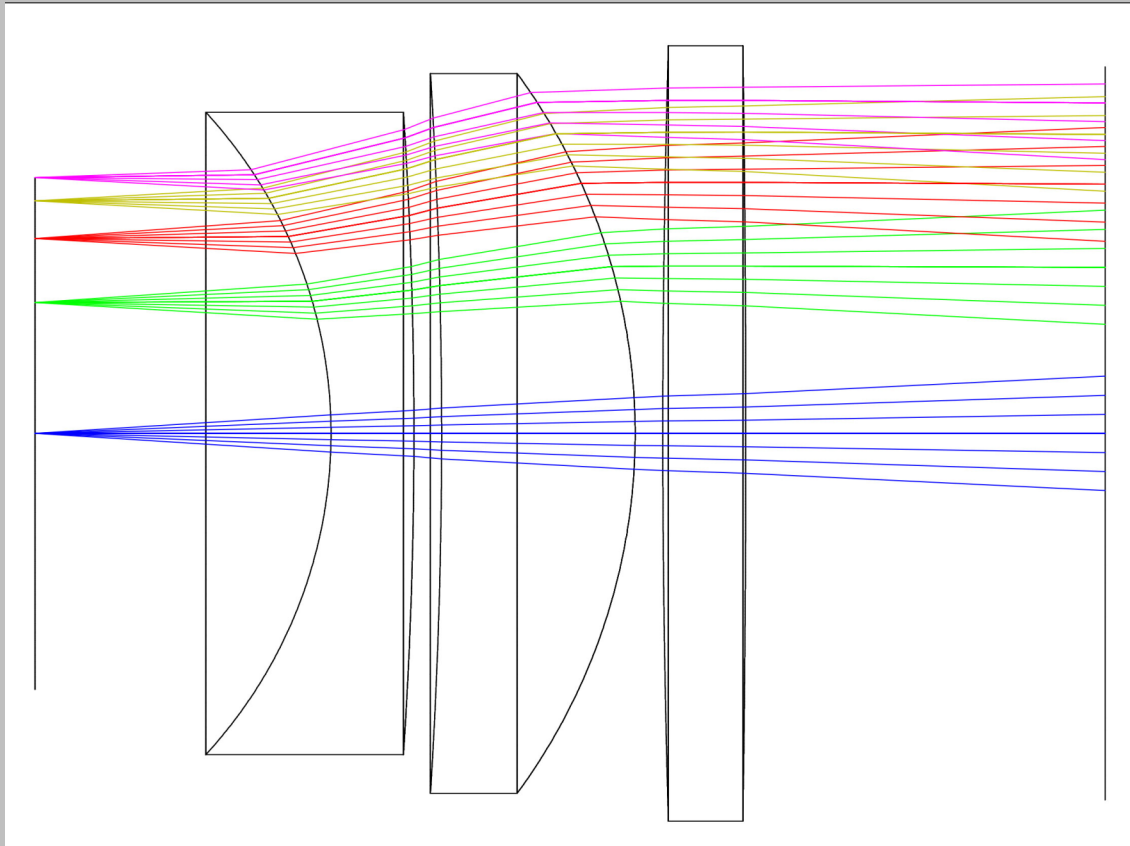


Statistics

- Exterior Dimensions
 - Outer radial envelope = 20.25"
 - Length = 21.836"
- Center of Mass
 - (0,0,0) is the front mounting port along the optical axis
 - Checkered ball in lower image
 - $X = 0.07$, $Y = -0.31$, $Z = 4.55$
 - Counterweight on lower section of instrument
- Mass = 252lbs (114Kg) w/accessories



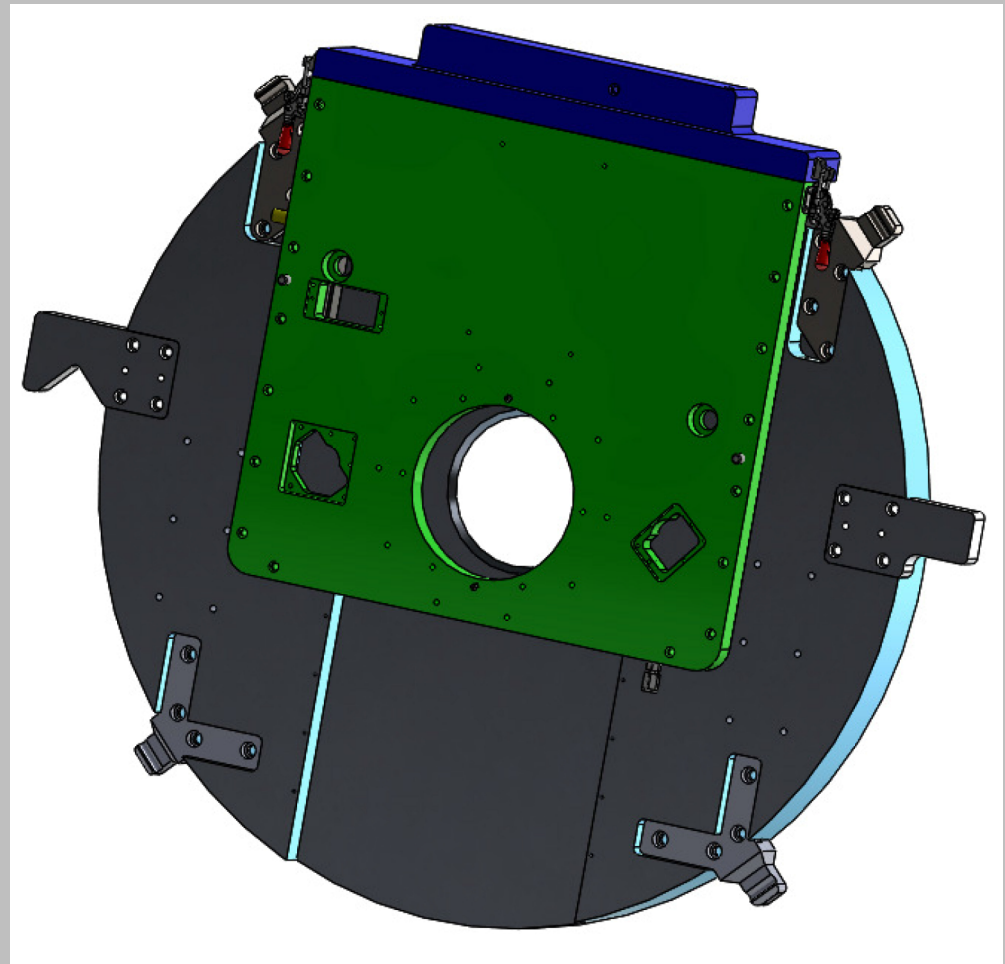
Optics



- Three piece focal reducer
- $f/10.3 \rightarrow f/8.0$

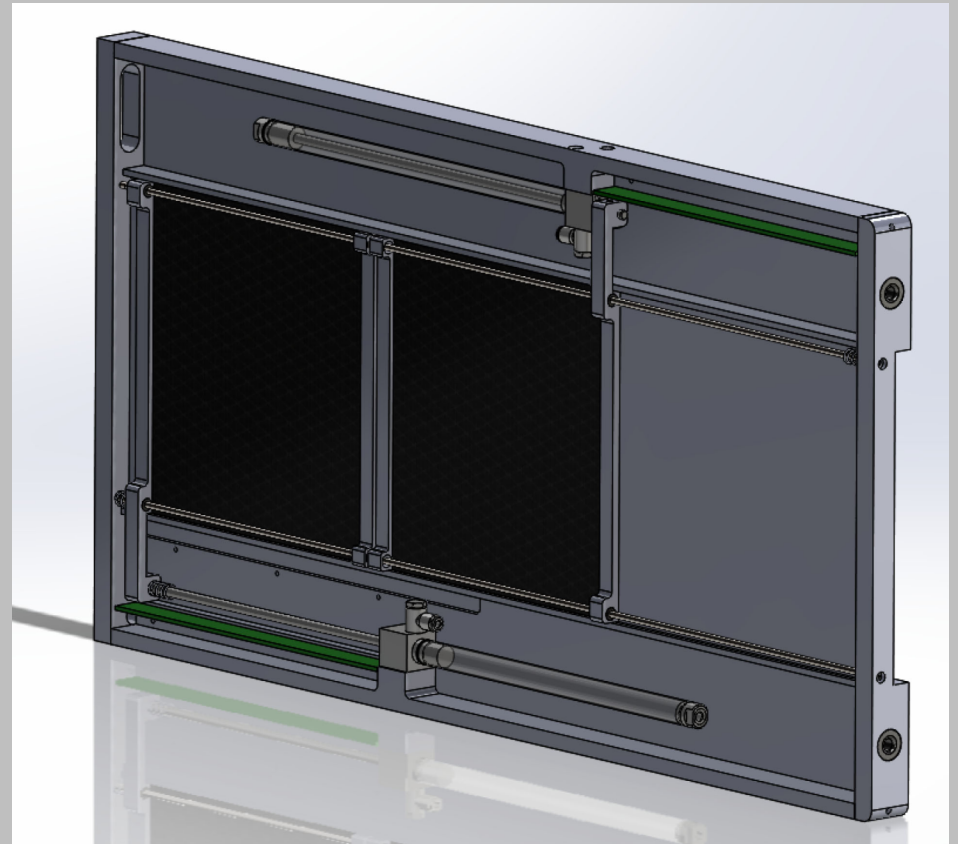
Mechanical Structure

- Two piece main structure
- Compact design
- Externally accessible components
- Filter Wheel Access



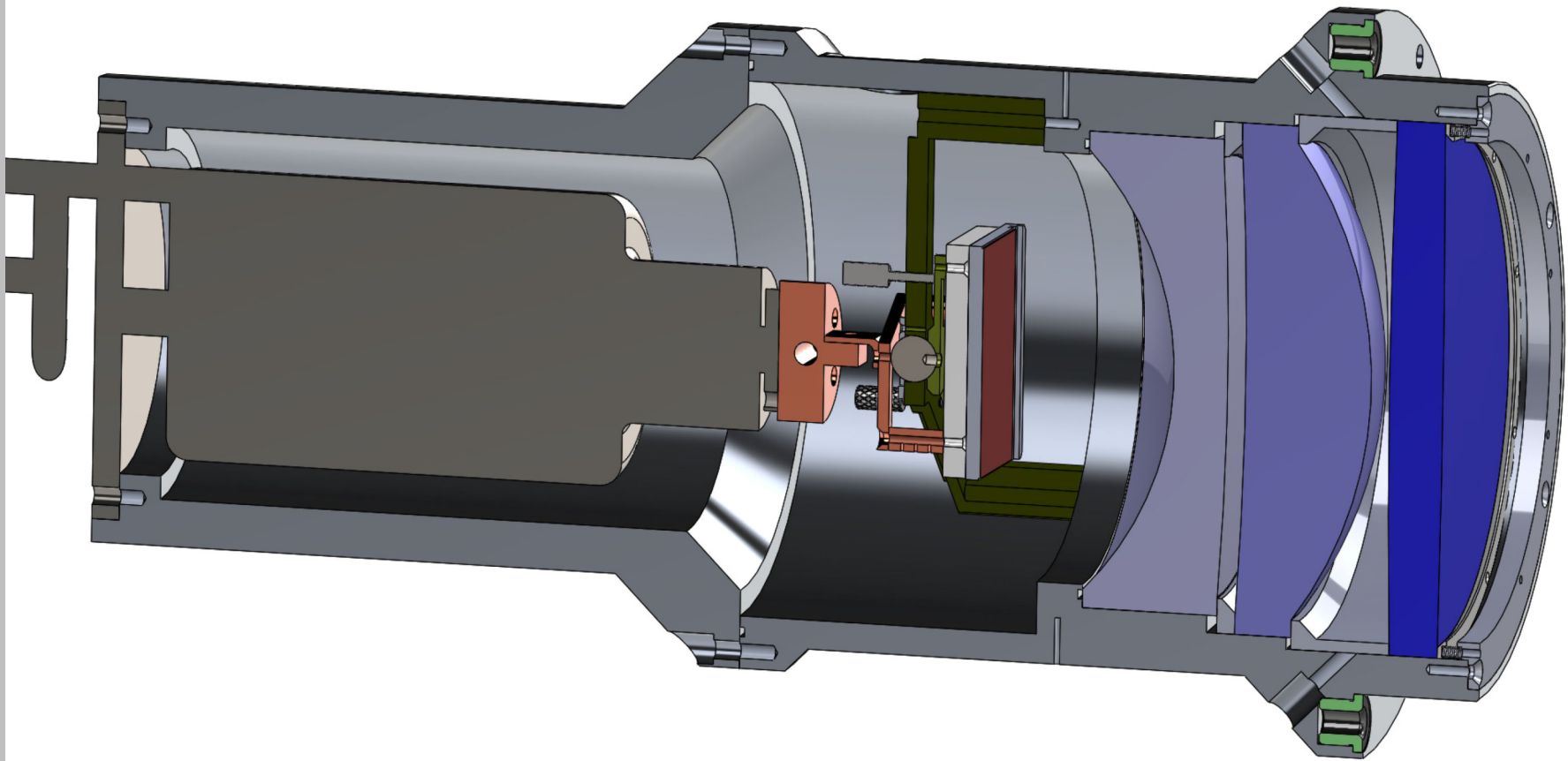
Shutter

- Pneumatic Driven
- 5.25" clear Aperture
- Photometric Accuracies
- Positional Feedback



Dewar

- Custom Design for minimal vacuum volume
- Two piece dewar housing
- Integral optics stack



Ancillary Equipment Heat Output & Power Requirements

- CCD Controller
 - Supply = ccd power supply
- CCD Power Supply
 - Supply = 120VAC
 - Heat Output = 20 Watt
- PC104
 - Supply = 5VDC
 - Heat Output = 13 Watt (model dependent, maximum)
- Shutter Solenoid
 - Supply = 12V
 - Heat Output = 0.5 Watt
- Filter Wheel Solenoid
 - Supply = 12V
 - Heat Output = 8 Watt (transient)
- Total = 33.5 Watt (steady), 41.5 Watt (maximum)