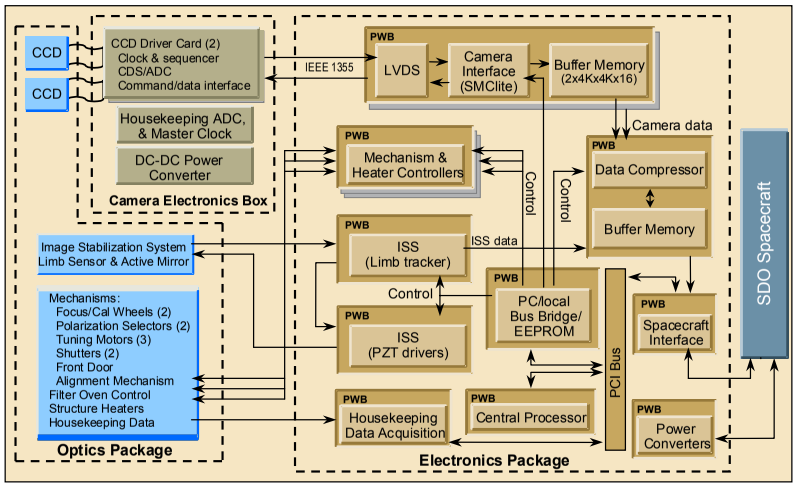
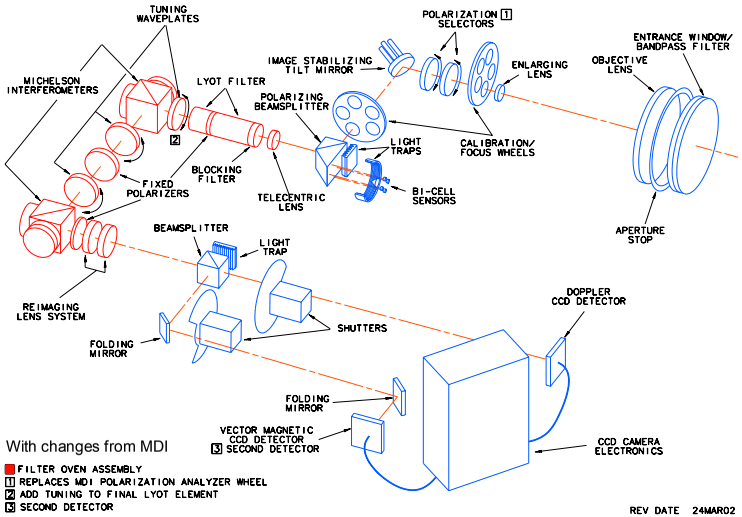
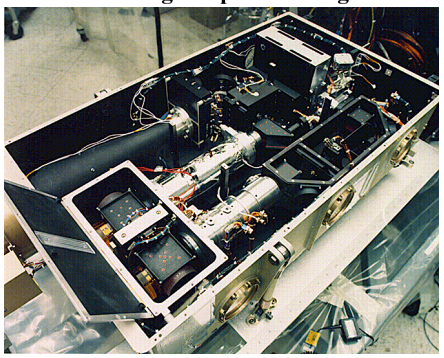


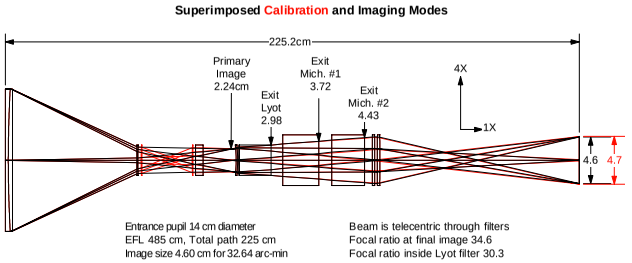

## 2.E - HMI Functional Block Diagram




## 2.A - HMI Optical Schematic and Layout

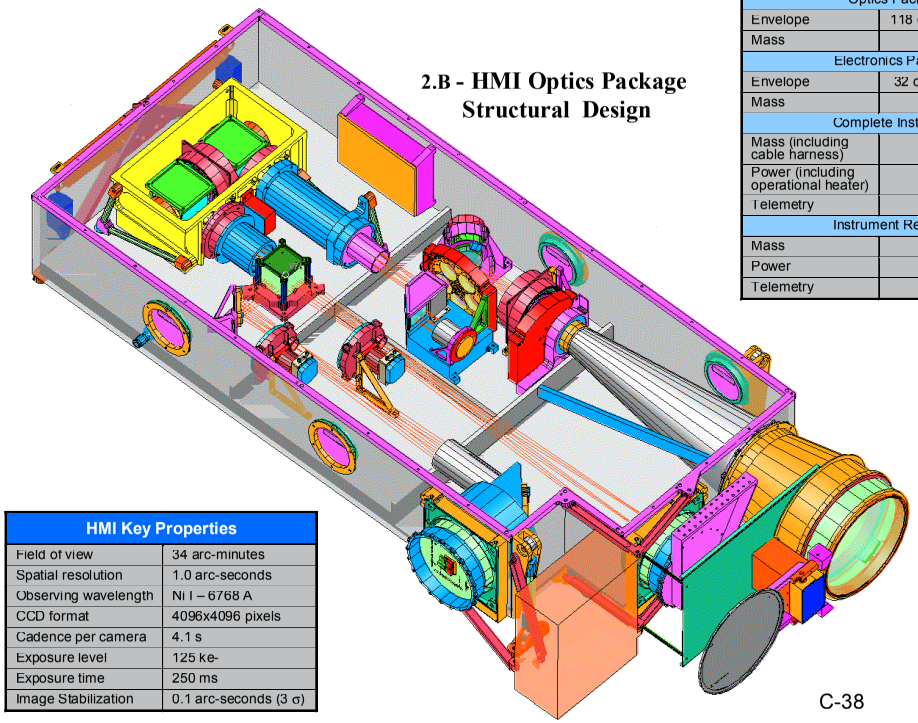
## 2.D - MDI Flight Optics Package






## 2.C - HMI Optical Design Raytrace

## 2.B - HMI Optics Package Structural Design



| HMI Resources | |
|---|---|
| Optics Package | |
| Envelope | 118 cm x 53 cm x 24 cm |
| Mass | 28 kg |
| Electronics Package | |
| Envelope | 32 cm x 28 cm x 21 cm |
| Mass | 15 kg |
| Complete Instrument | |
| Mass (including cable harness) | 46 kg |
| Power (including operational heater) | 60 W |
| Telemetry | 50 Mbit/s |
| Instrument Reserves | |
| Mass | 9 kg |
| Power | 12 W |
| Telemetry | 5 Mbit/s |

| HMI Key Properties | |
|---|---|
| Field of view | 34 arc-minutes |
| Spatial resolution | 1.0 arc-seconds |
| Observing wavelength | Ni I – 6768 A |
| CCD format | 4096x4096 pixels |
| Cadence per camera | 4.1 s |
| Exposure level | 125 ke- |
| Exposure time | 250 ms |
| Image Stabilization | 0.1 arc-seconds (3 σ) |