## **Instrument Overview**

P. Hassler / EJ23

C D R March 1, 1994 LIS

## **LIS Instrument Concept**

- Solid State Optical Sensor
  - Staring; Fixed Field-of-View
- Detects and locates lightning along the orbital path of the spacecraft (620 x 620 km, instantaneous FOV)
- Subsystems
  - Lens/Filter
  - Charge-Coupled Device (CCD)
  - Electronics

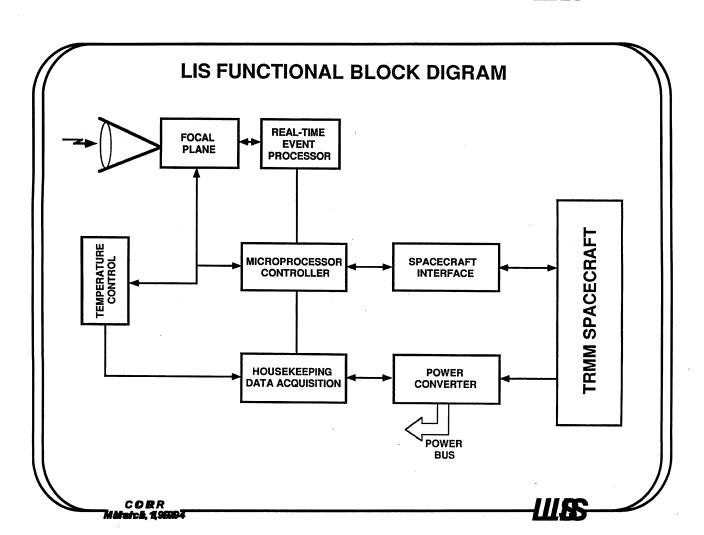
C D R March 1, 1994 LIS

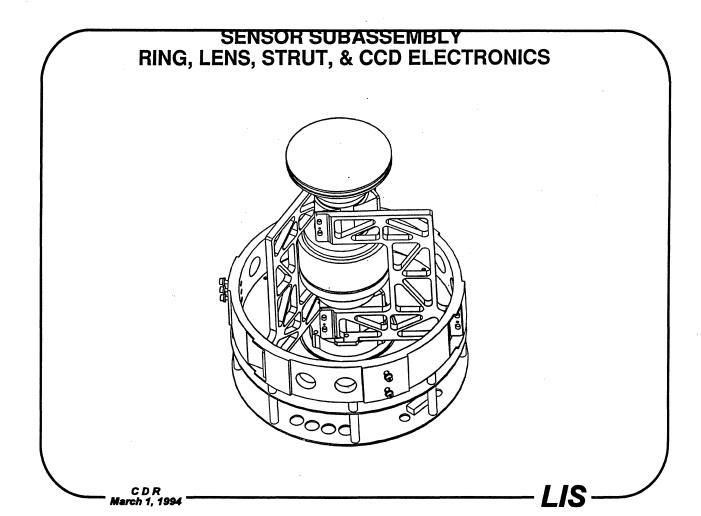
## LIS Basic Performance Specifications - How Achieved

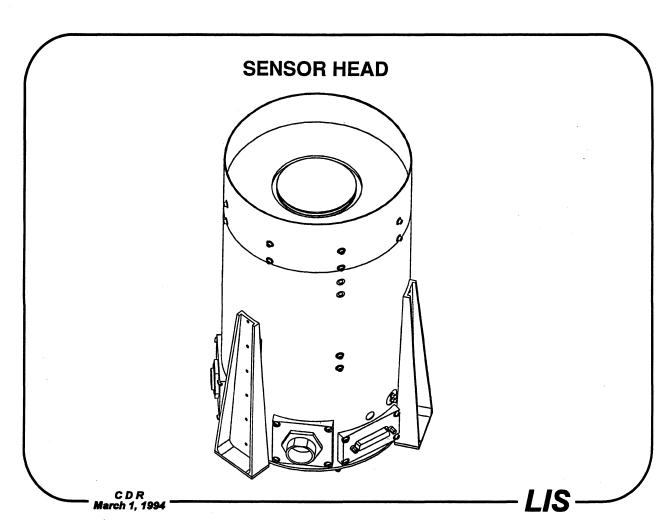
- Square Field -Of-View: 75° x 75° (+/-5°) (Nominal)
  - Wide-angle lens system
- Wavelength: 777.65nm
  - Narrowband optical filter
- Spatial Resolution: <=4km</li>
  - FOV and Pixel size
- Temporal Resolution: 2ms
  - High-speed CCD signal processing
- TRMM Interfaces
  - In accordance with ICD TRMM-490-022

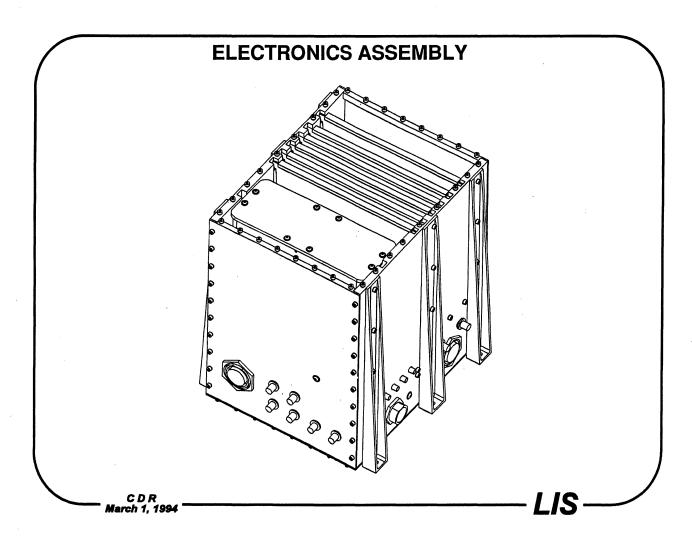
CORR

ШÆS









This Page Intentionally Left Blank

C D R ' **Marc**h 1, 1994 ' LIS