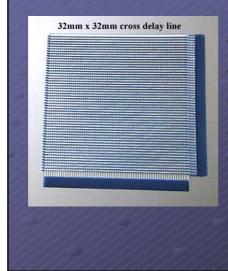
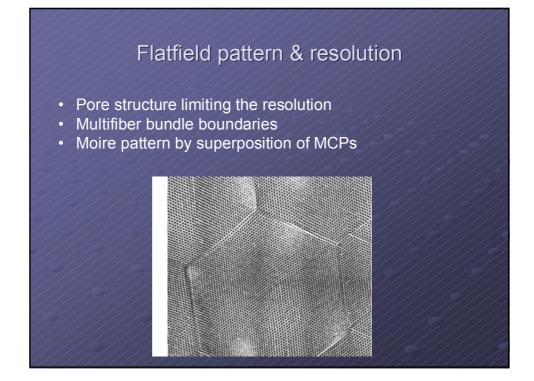


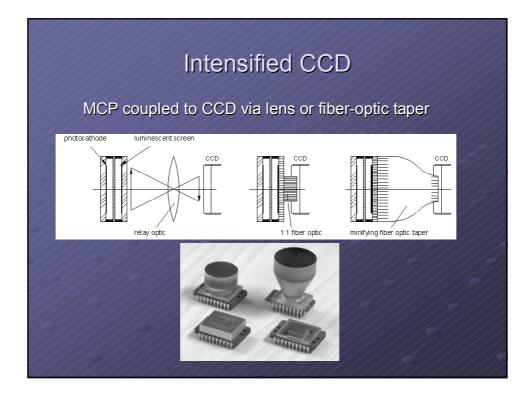
## Anode design options

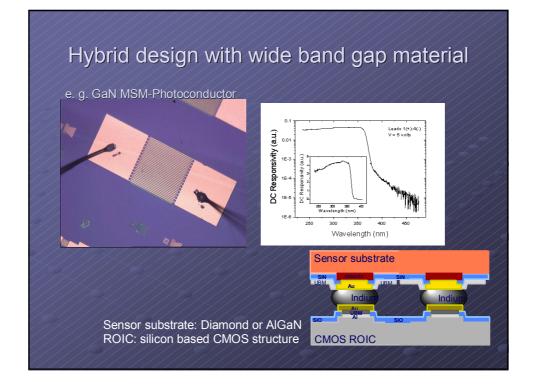


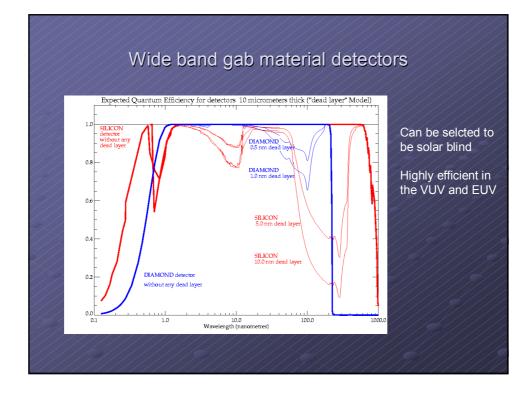
- Wedge and strip anodeCross Delay line anode
- Cross strip anode
- CCD

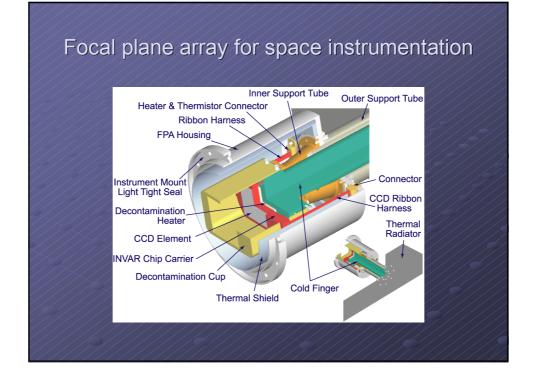
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## Silicon based sensors vs. Wide band gap sensors

Silicon Detectors	Wide Bandgap Detectors
Need cooling to -60 C or less (Dark current & radiations)	Room temperature operations (simpler & cost-effective)
Contaminants stick and polymerize (cold trap)	Low contamination risk, long-term stability
Degradation of the charge transfer efficiency by ionizing radiation	Rad-hardness Whole mission lifetime increased
Cosmic ray hits plague the signal (points & strikes)	Smaller cross-section => less artifacts
QE insufficient, inhomogeneous, and unstable	Higher QE. Stability and flat-field improved
MCP Intensifiers needed	VUV sensitive
Minimal pixel size ~10 microns	Sub-micron pixels (potentially)
Most sensitive in visible, filters needed (fragile, absorbing UV)	Visible-Blind Some filters can be removed Gain in effective area

