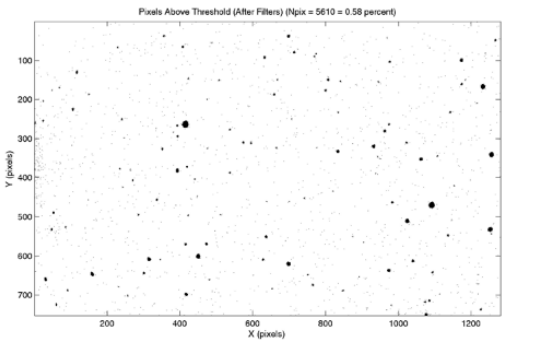
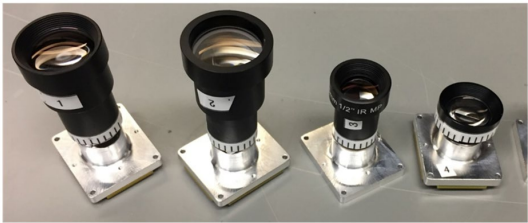




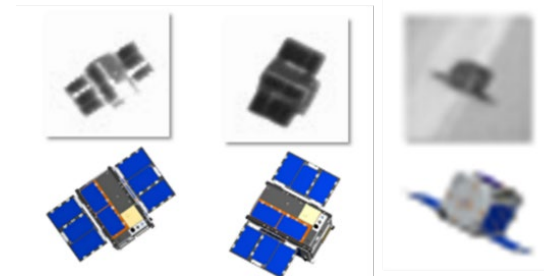
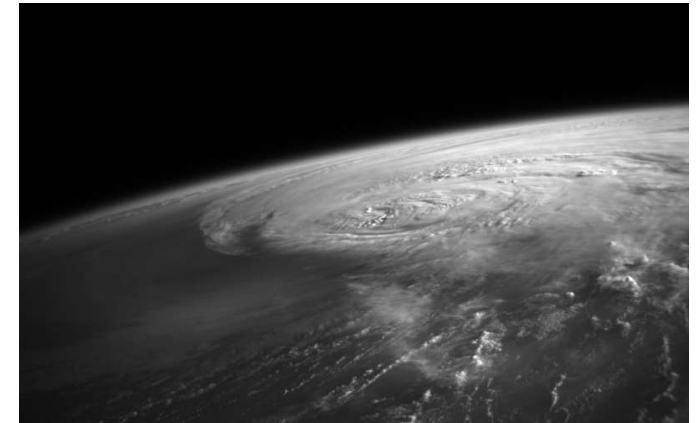
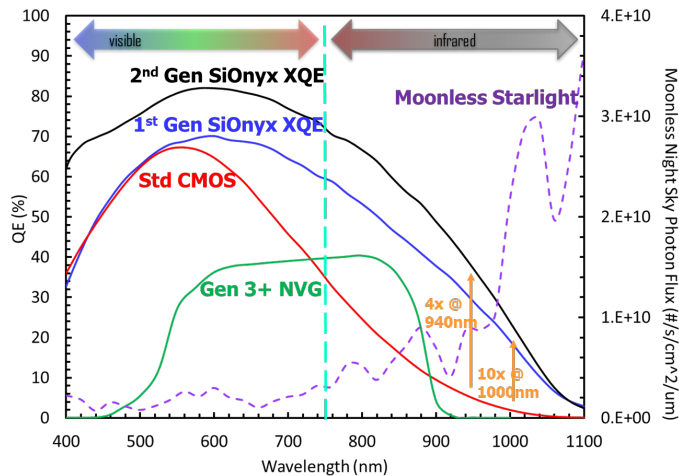
SIONYX: High Magnitude Sensing Imagers

- SIONYX in orbit since 2018 on IMPACT nanosatellites (12 cameras)
- SIONYX demonstrated Mag 9 star imaging where standard CMOS sensors can only see Mag 6 stars (enabled by extended QE and low noise)
- Latest sensors already have 10x better performance – See Mag 15 @ 15 frames/sec
- Future detectors have additional 10x better SNR enabling imaging of smaller, dimmer space debris

Star Trackers with SIONYX Sensors



Extended QE dramatically improves space debris sensing capability



32 meter range

22 meter range

Hurricane and cubesat images from SIONYX cameras on orbit

Mag 9 star field fully cataloged from measurements