



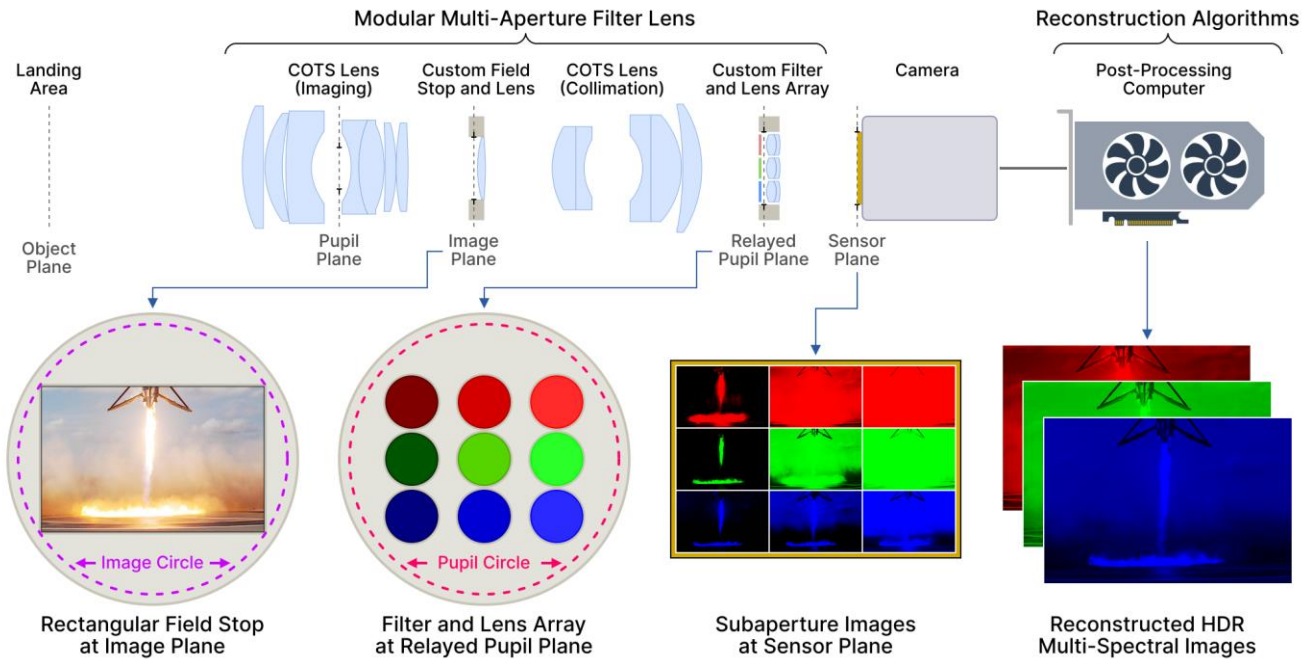
RECONFIGURABLE ADAPTER FOR SNAPSHOT MULTIMODAL IMAGING

N A N O H M I C S

HIGH SPEED VIDEO RATE MULTISPECTRAL/POLARIMETRIC IMAGING LEAVES NO PLACE TO HIDE



Nanohmics has developed a reconfigurable plenoptic add-on lens that converts a standard high-performance camera into a snapshot multispectral, polarimetric, and/or high dynamic range) imaging system. The system has been demonstrated with high-speed imaging of plumes in rocket motor tests.



CAPABILITIES

- Finds camouflaged targets - Multispectral/polarimetric images contrast the target from clutter and background
- Add-on design—no need to modify the camera package and/or image sensor
- Swappable “sensing cartridges” for different missions
- No moving parts, captures at full video rate of the sensor
- Image does not smear with target motion or platform vibration

APPLICATIONS

- Space, Airborne or Ground reconnaissance
- Detection of threat materials and gasses
- High speed flow comparisons to CFD models

CURRENT STATUS

- TRL 6 demo with high-speed multispectral imaging of rocket motor firing
- Ready for custom integration into ISR platform sensors

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