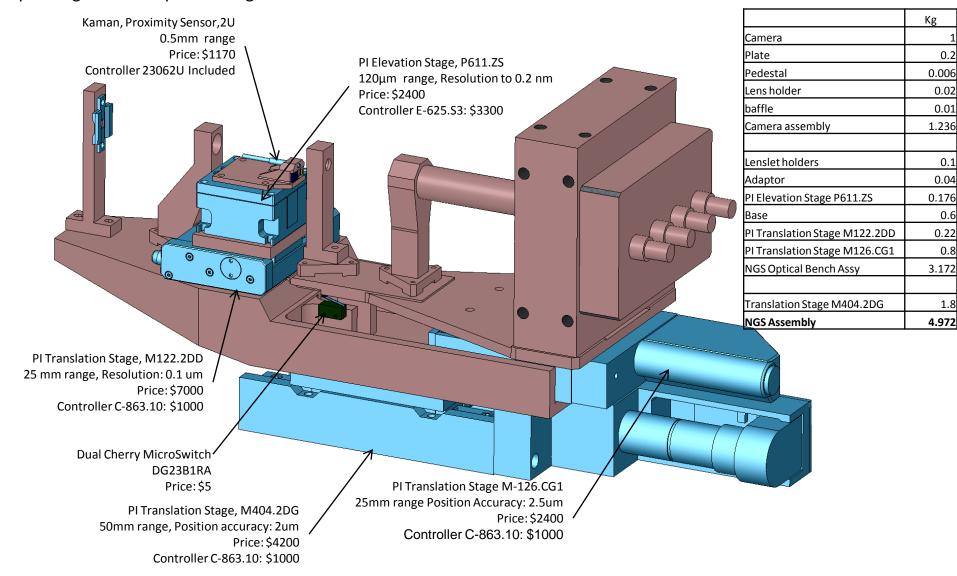
NGS Motion Control With PI Stages

All Stages Rated at -15C

Operating Closed loop with integrated encoders

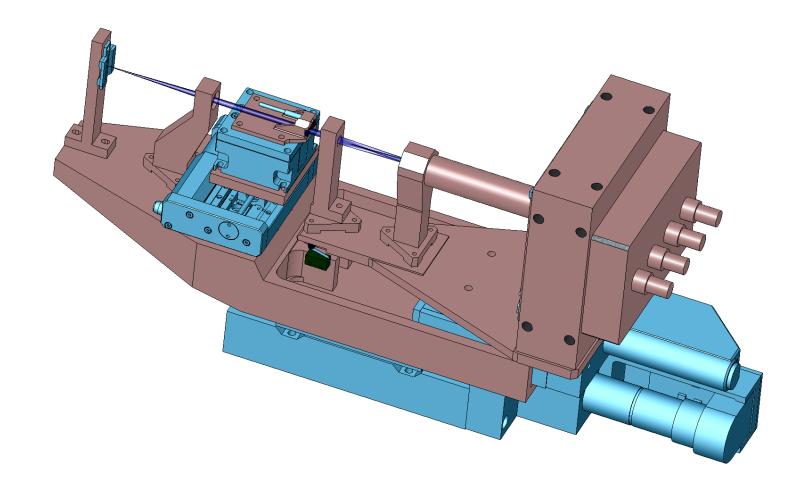








5 x 5

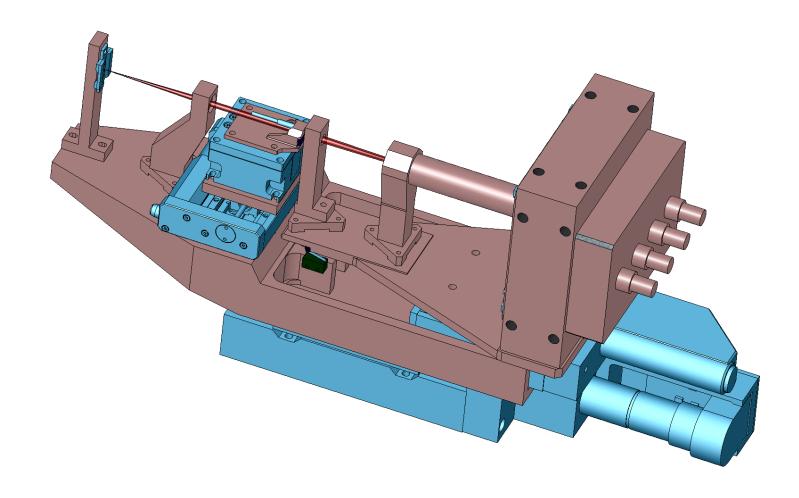


ONITAL DESIGNATION OF THE PROPERTY OF THE PROP





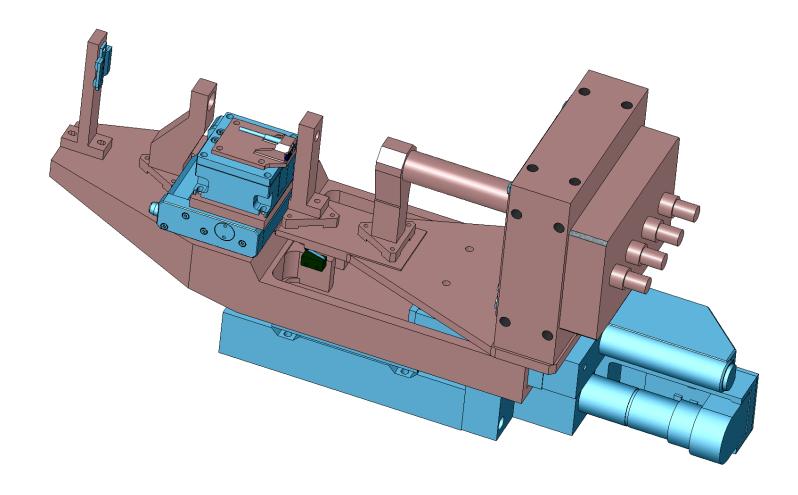
63 x 63



NGS Motion Control With PI Stages





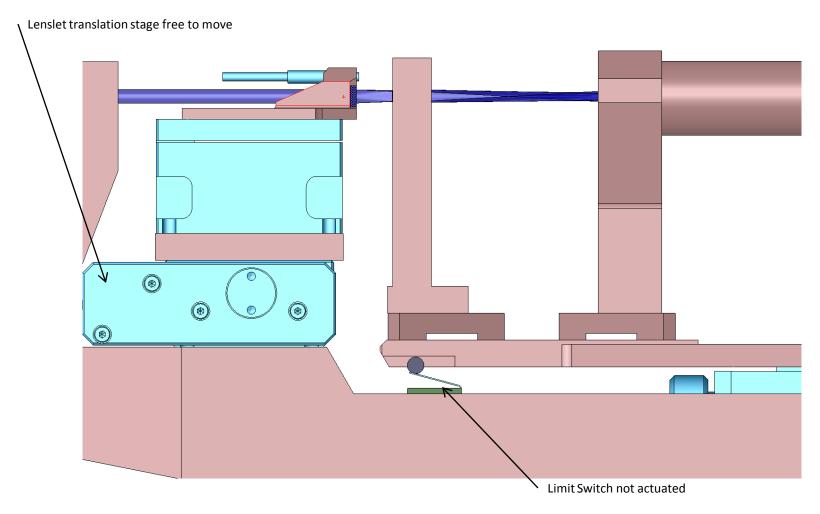


NGS Motion Control Collision avoidance system



5 x 5

The Limit Switch is not actuated and the lenslet translation stage is free to move across its range.



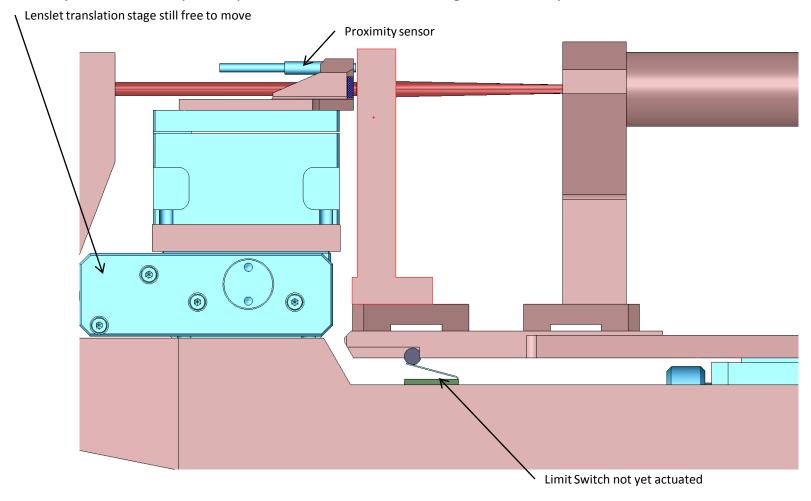
NGS Motion Control Collision avoidance system



63 x 63

The Limit Switch is not actuated yet, although very close, and the lenslet translation stage is still free to move across its range.

The Proximity Switch is ready to stop the Camera Translation stage if necessary.

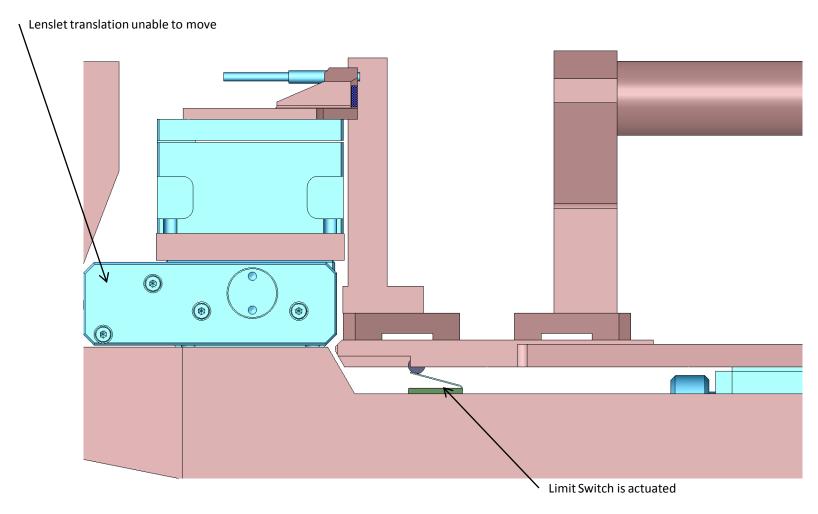


NGS Motion Control Collision avoidance system



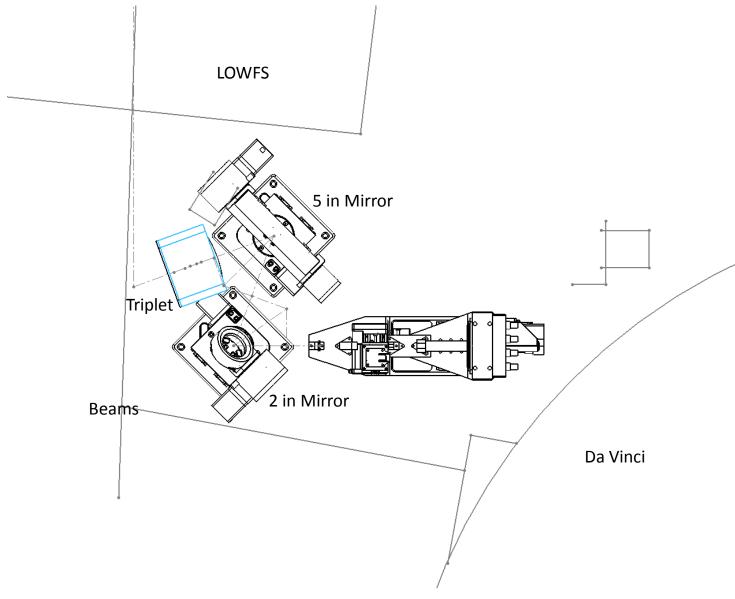
Blank

The Limit Switch is actuated and the lenslet translation stage is unable to move across its range.



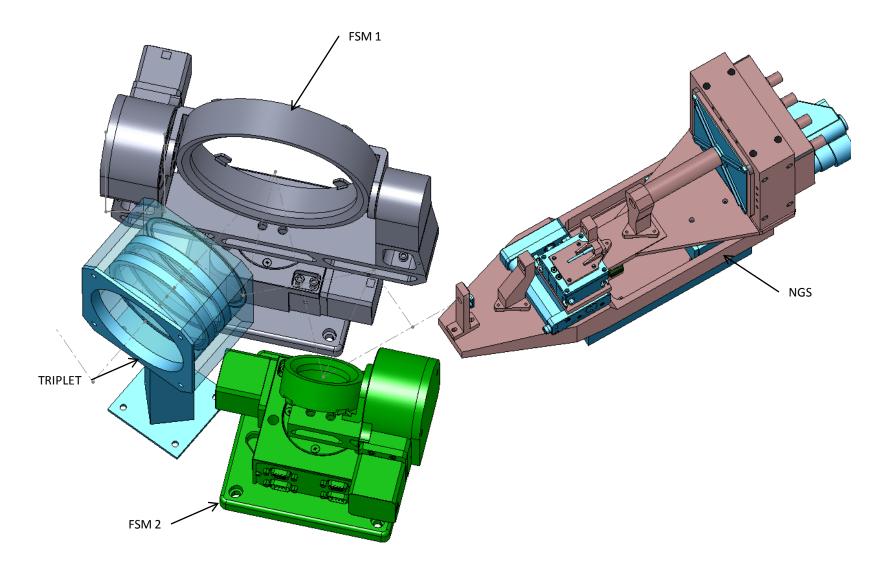
NGS Integration





NGS Integration





FSM 1



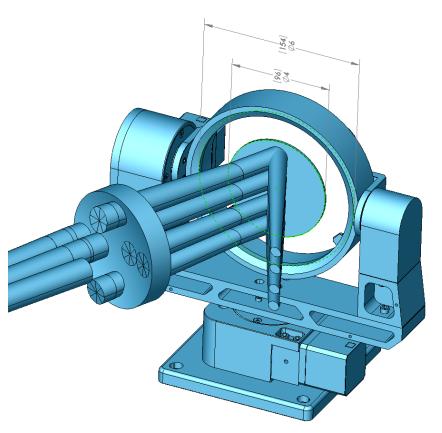
FSM 1 is a GMC-6 Newmark Gimbal with Mirror Cell for 6 inch optics

Repeatability: 5 arc seconds Accuracy: 70 arc seconds Resolution: 0.29 arc-sec

Elevation range: 360° continuous

Azimuth Range: ±90° Load capacity: 25 lbs.

Operating Temperature: -20 +50C



GM-6 Specifications	
Resolution	0.29 arc-sec (MicroStepping) 3.6 arc-sec (servo motor)
Accuracy	70 arc-sec
Max. Speed	25"/sec (stepper motor) 60"/sec (servo motor)
Maximum Load	25 lbs.
Repeatability Uni-directional	5 arc-sec
Travel Range	Azimuth: ± 90° Elevation: ±90°, 360° continuous with limit switches disabled. Other travel ranges are avalilable.
Limit Switches	Optical, located at ±90° on both axes
Origin	Optical home switch located in the middle of travel.
Gear Ratio	90:1
Stage Weight	15 lbs.
Material	Aluminum
Finish	Black Anodize

FSM 2

FSM 2 is a Custom Newmark Gimbal with Mirror Cell for 2 inch optics

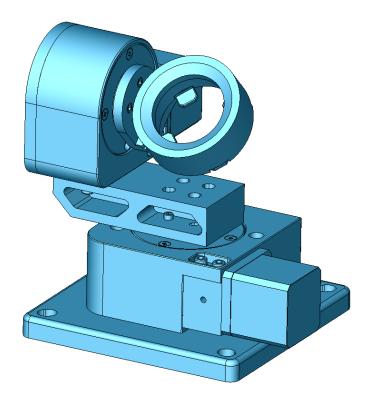
Repeatability: 5 arc seconds Accuracy: 70 arc seconds Resolution: 0.36 arc-sec

Elevation range: 360° continuous reduced to 26°

Azimuth Range: ±90° reduced to 26°

Load capacity: 25 lbs.

Operating Temperature: -20 +50C





Triplet Holder

