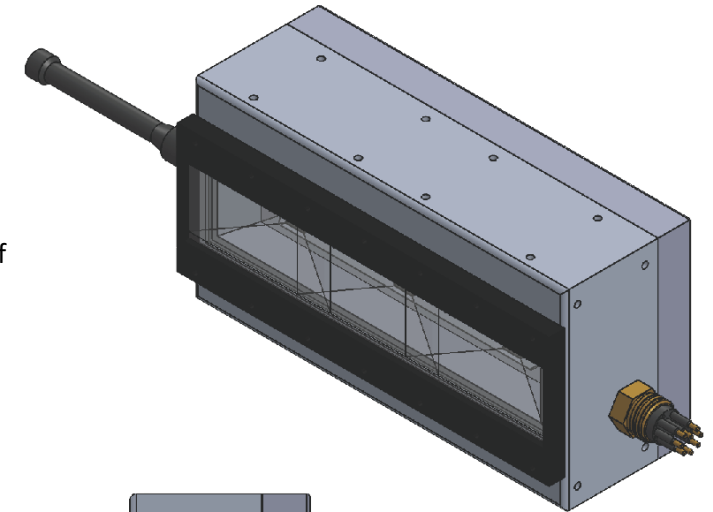
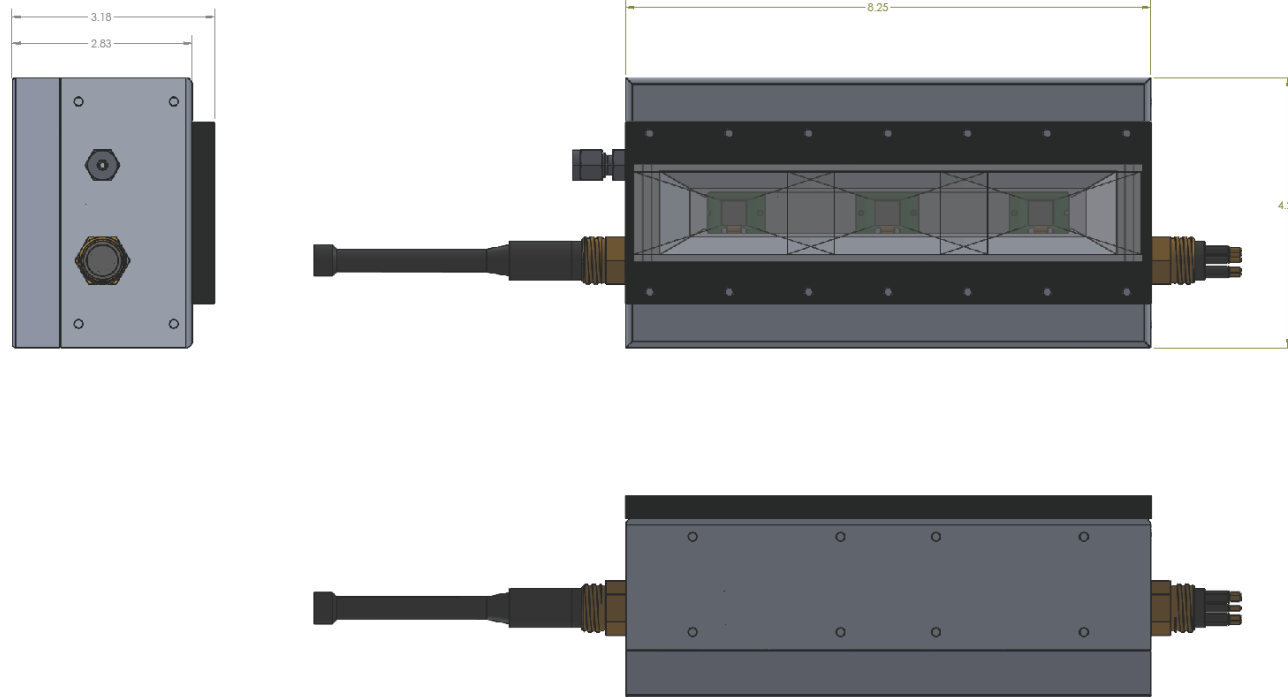


- 1) Maximized machining in one part
- 2) Other than main housing other parts are very simple
- 3) Did away with light baffling
- 4) Kept long lens to allow for camera movement
- 5) Lens can be pulled from the front without opening housing
- 6) Lens in recessed below holder – some scratch protection
- 7) Interior allows for camera to be in a rack then mounted to housing
- 8) Access into housing can be done without disconnecting or moving wires or disconnecting from vehicle if mounted with direct access to back plate
- 9) Mounting holes on all sides for brackets to accommodate future applications
- 10) Lens design has minimized water getting underneath

Did I miss a requirement or desire from the last meeting?



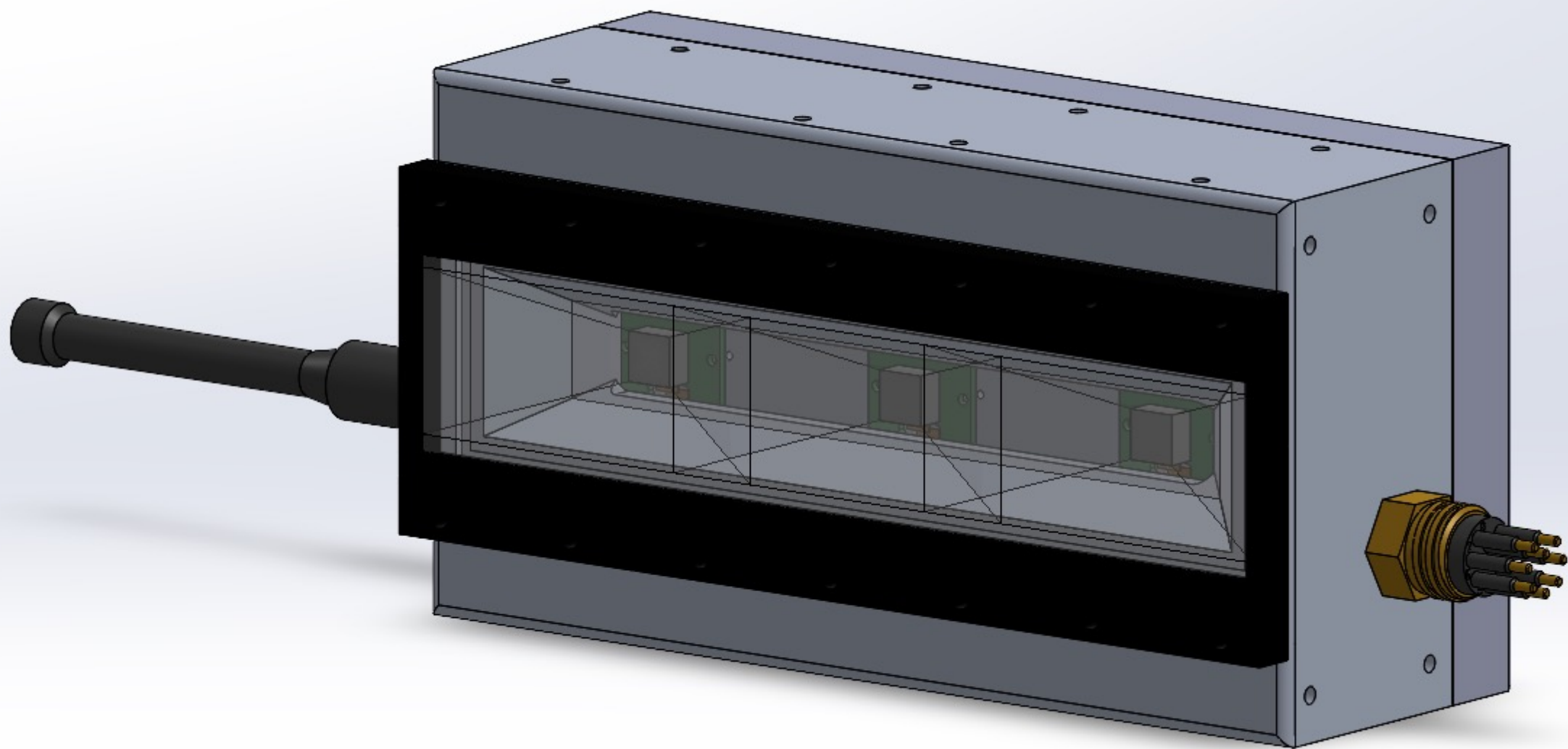
Wgt in Air : 6.7 lbs

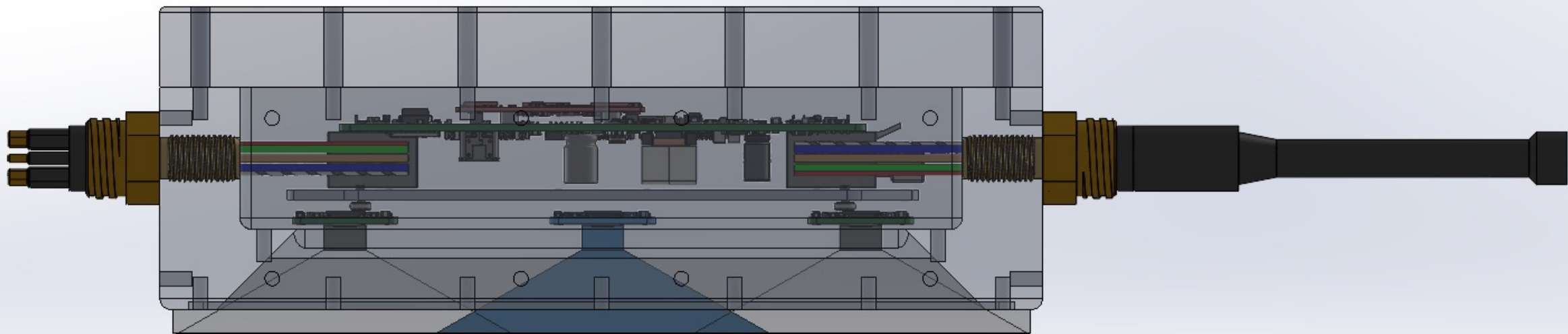
Wgt in SW: 4 lbs

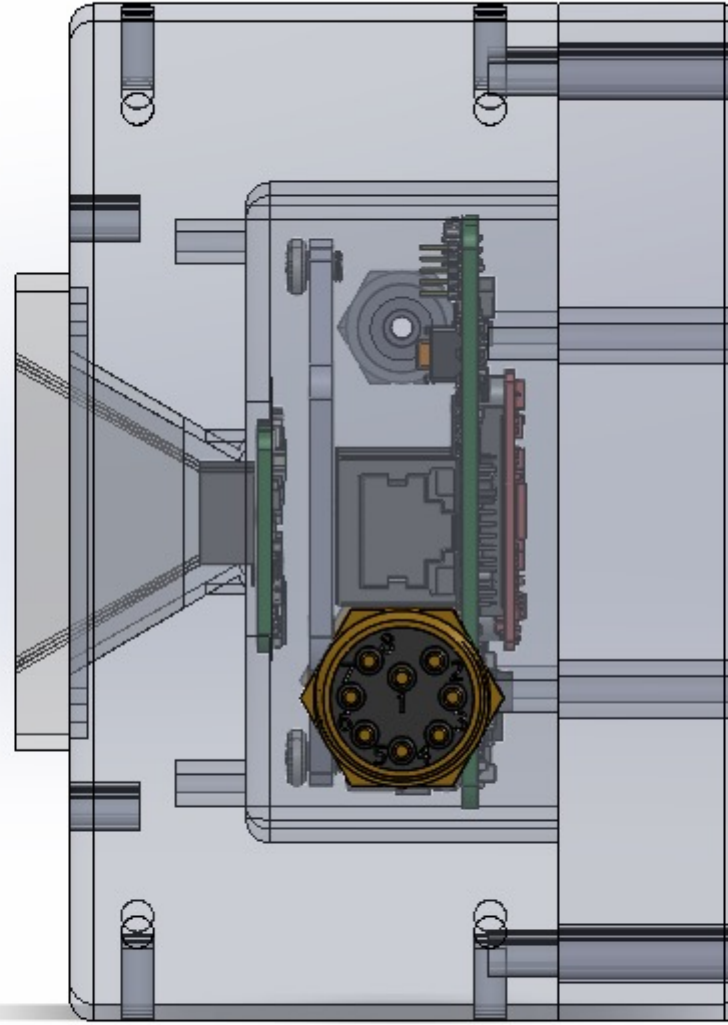
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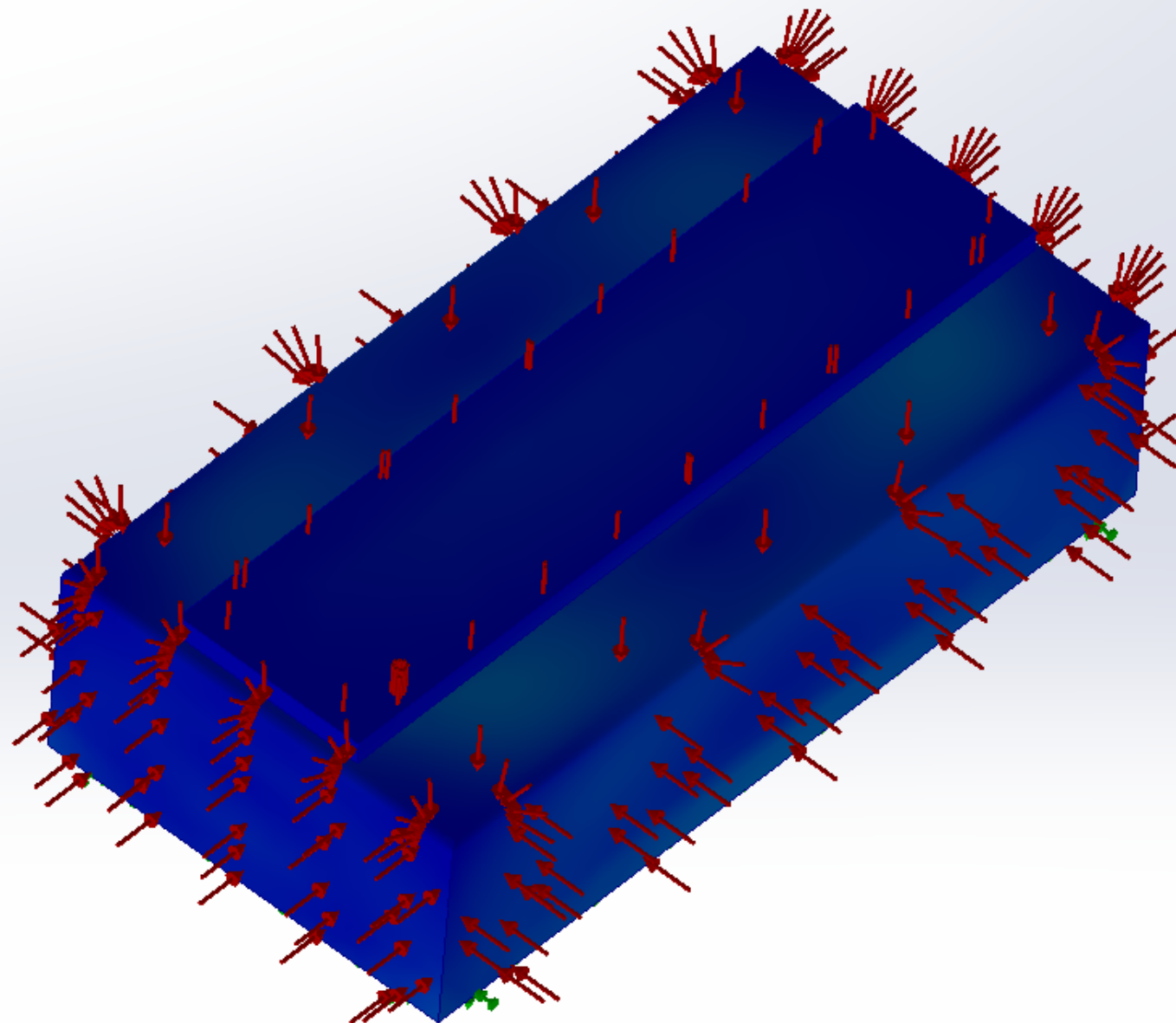
UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN		
TOLERANCES	CHECKED		
FRACTIONAL	ENG APPR.		
DECIMAL	ENG APPR.		
THREE PLACE DECIMAL	ENG APPR.		
INTERPRET GEOMETRIC TOLERANCES PER	COMMENTS:		
ASME			
DATE	ISSUED		
APPLICATION	DO NOT SCALE DRAWING		

TITLE: MOLA DEEP Cam Housing
DWG. NO. D
SCALE: 1:1 WEIGHT: 1
SHEET 1 OF 1

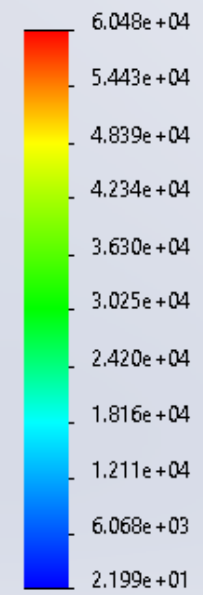


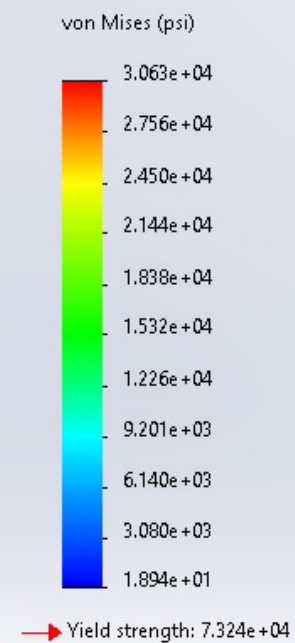
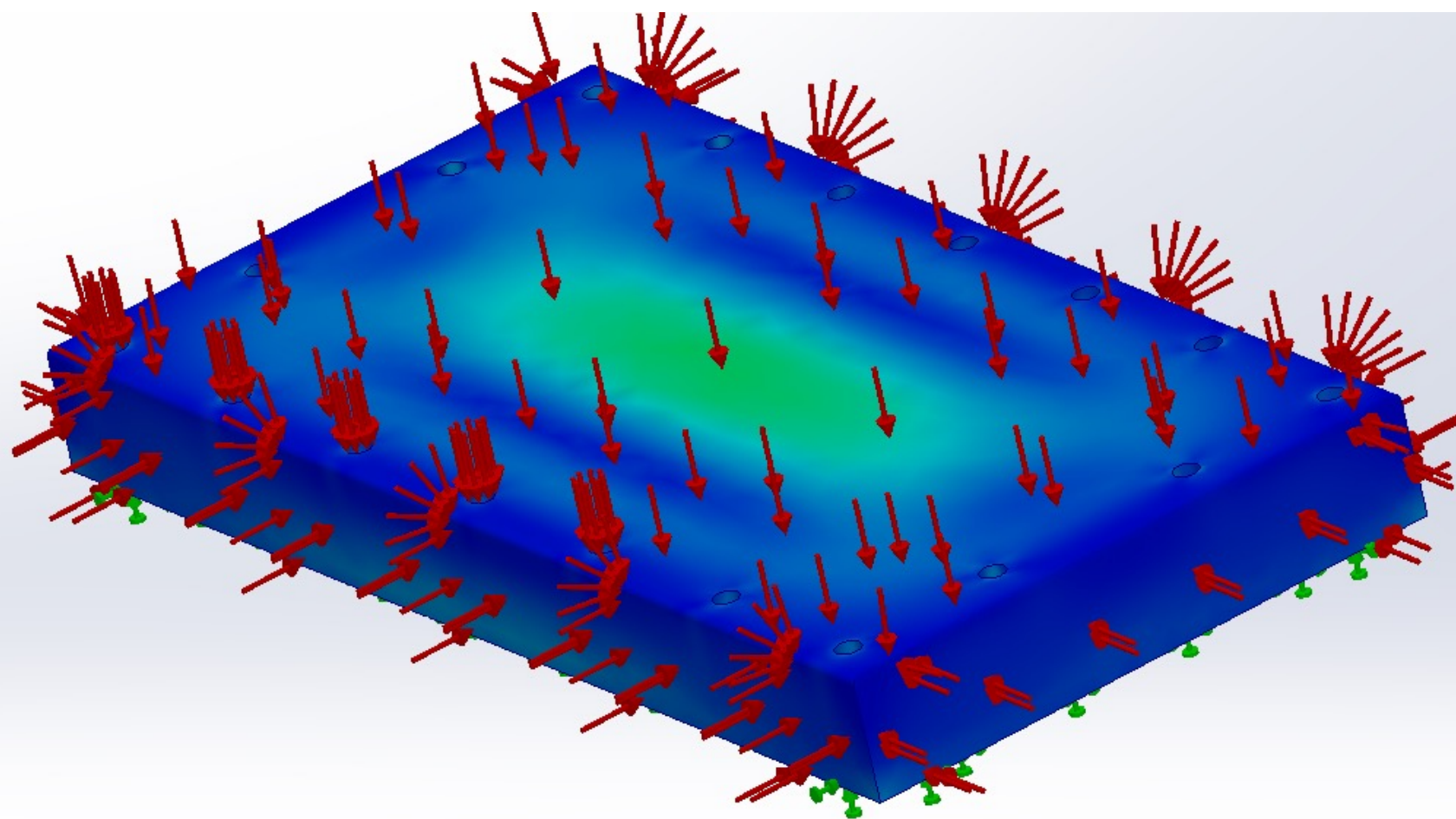


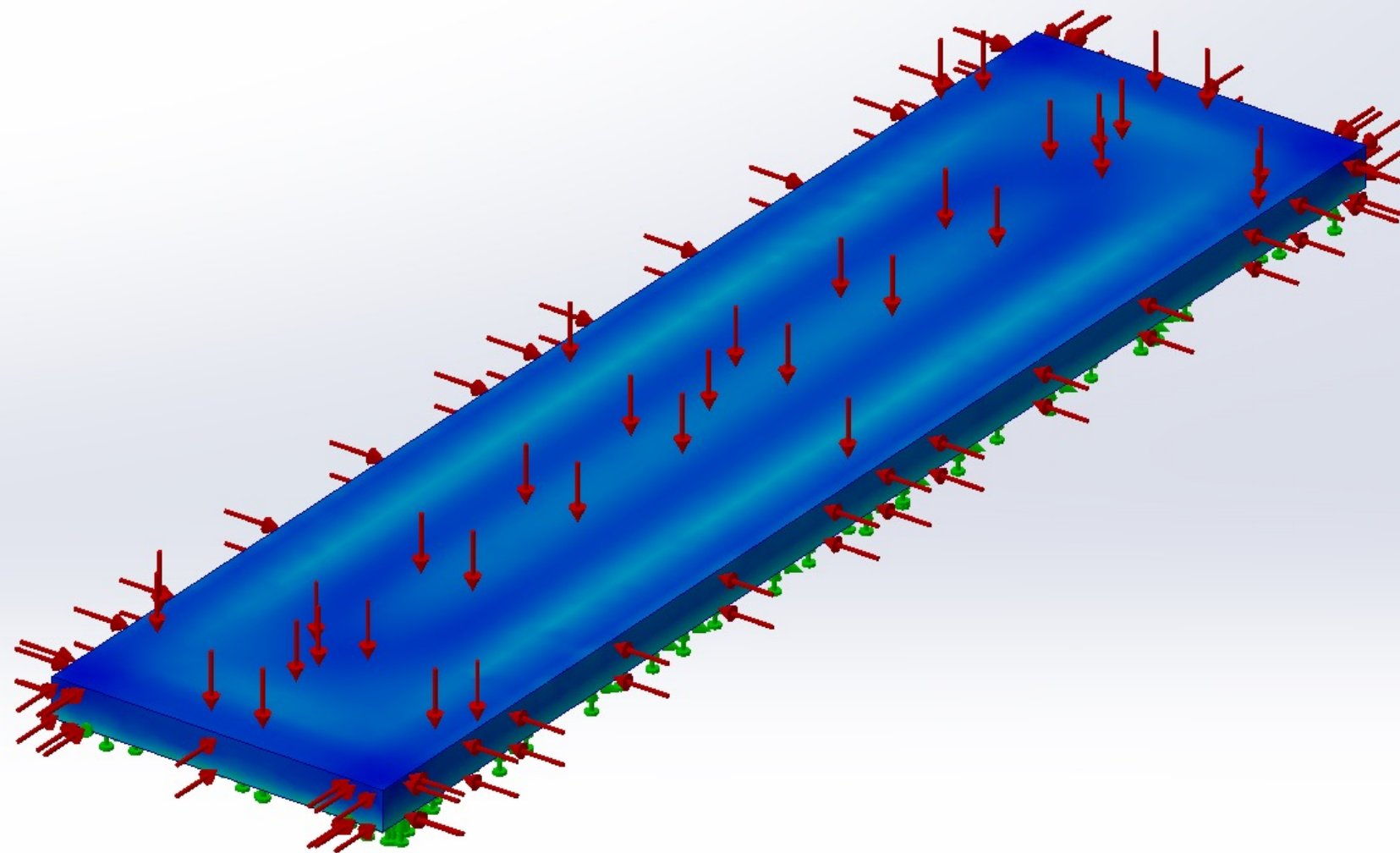




von Mises (psi)





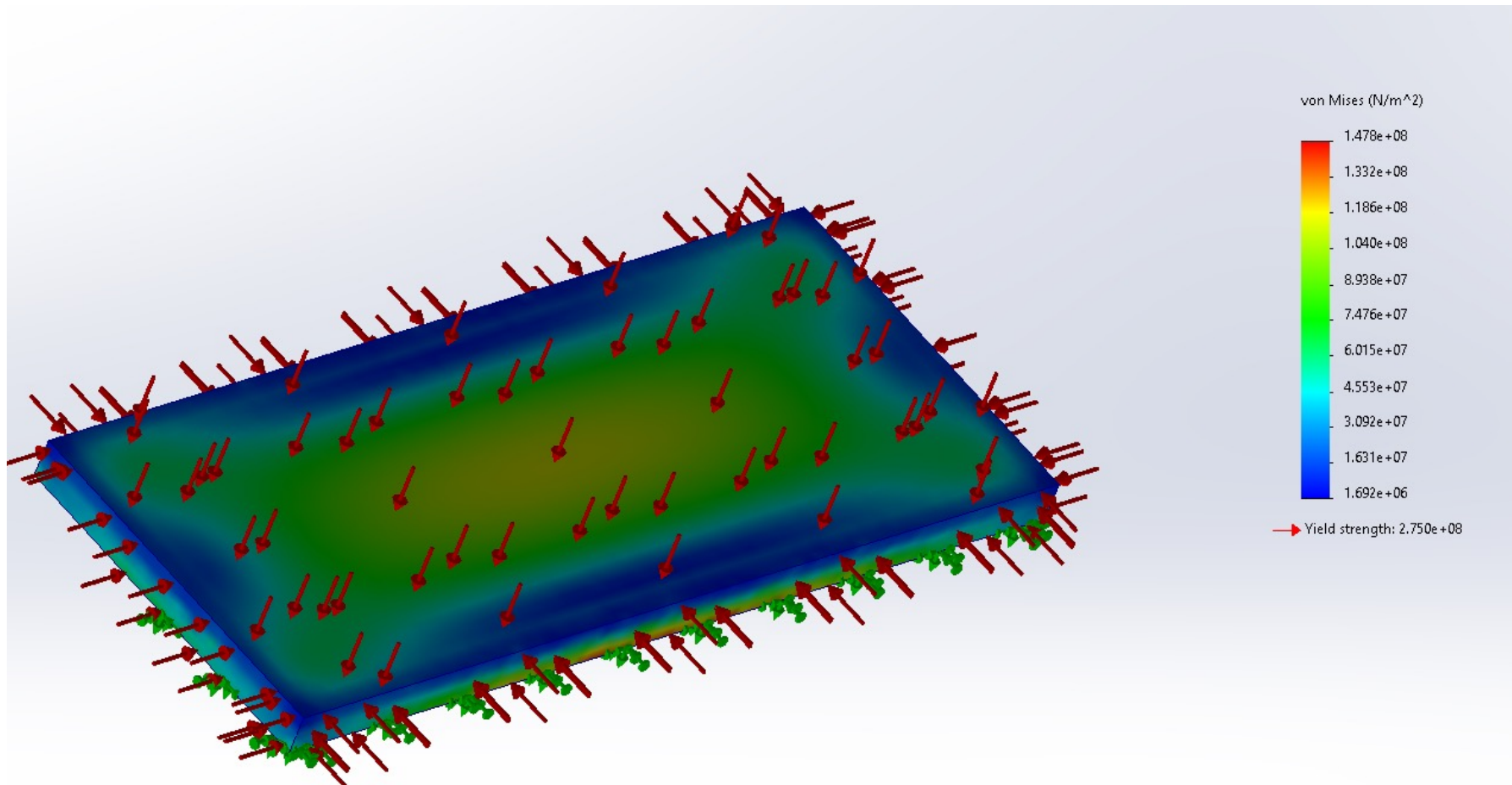


Things to do before going to the shop:

- Counter sink screw heads to keep overall dimensions
- Design the interior rack for the camera to mount onto 3D print
- Double check Delrin will squeeze gasket enough or change material choice
- Counter sink purge port for o-ring seat
- Spot face the connectors for o-ring seat
- Draw up the lens gasket
- Detailed drawings for shop
- ❖ If we know where this will mount with certainty, design the brackets that attach to the mount holes and get those into the shop as well

This is too heavy for MOLA... talking with Eric, he mentioned that we should probably make a lighter version for the shallower depth.

A quick look at 500 meters which is about 750 psi... just looking at the back plate as a reference...



1500 meter plate
is wgt in air is 2.6
lbs

500 meter plate is
0.6 lbs in air

A rough guess is
the 500 m housing
would be about
25% of the total
wgt of the 1500 m