

SideKick Low-Pro Optical Cryostat – Chamber Housing Options

Four9 Design has developed a number of different chamber housing options for use on the Low-Pro cryostat system. Each of these housings is rated for UHV and has been rigorously tested to ensure optimal performance. With multiple configurations and working distances, you can choose the housing that is best for your project.

Summary of housing options:

Name	Designed For	Working Distance	Internal Height
Flat Housing	Top LWD	< 2 mm	25 mm
Short Castle	Top LWD	< 2.5 mm	30 mm
Narrow Castle	Side LWD	< 8 mm	
Cube Housing	5 Windows	< 4 mm	75 mm
Magnet Castle	GMW yoke magnet	< 12 mm	122 mm

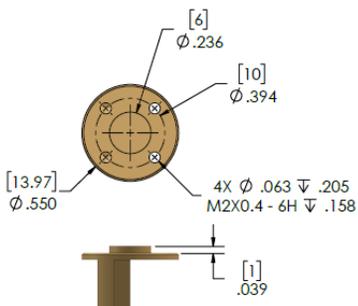
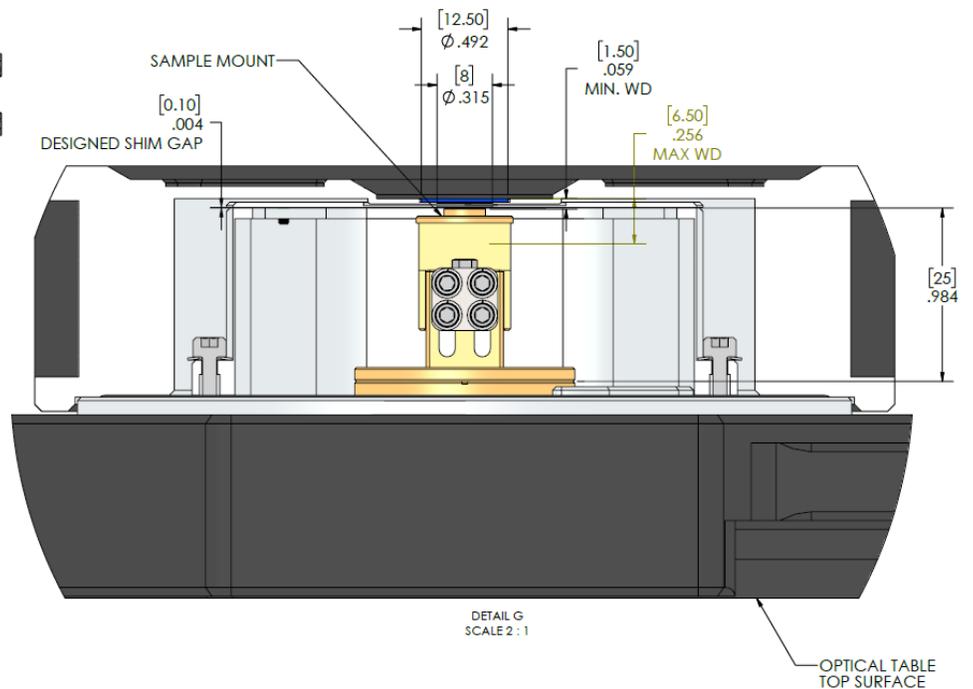
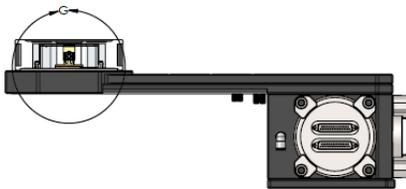
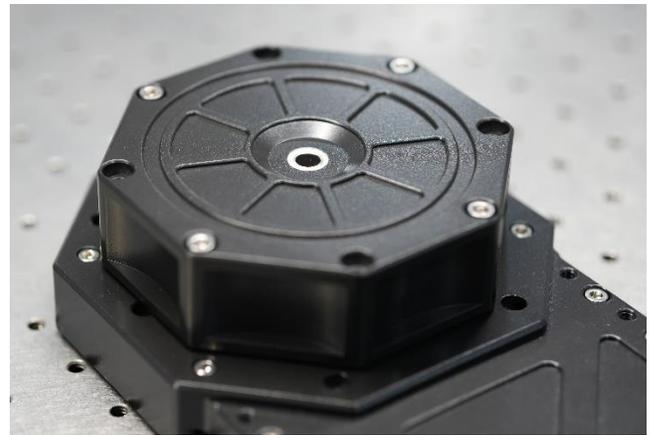
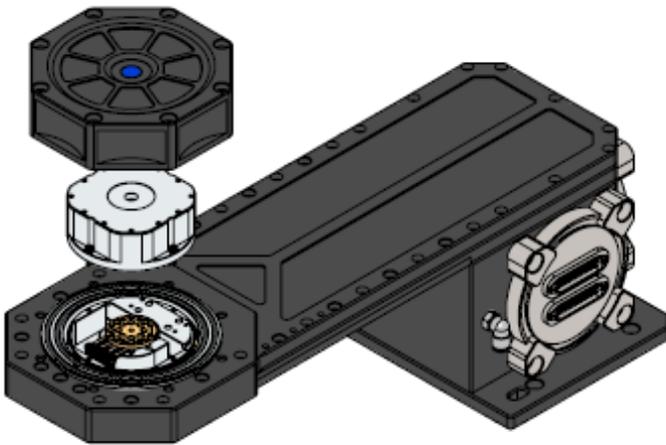
Drawings may show additional options like interfaces, nano positioners, sample mounts, etc.

Flat Housing

Single, vertical objective

< 2 mm working distance

Internal chamber height: 25 mm

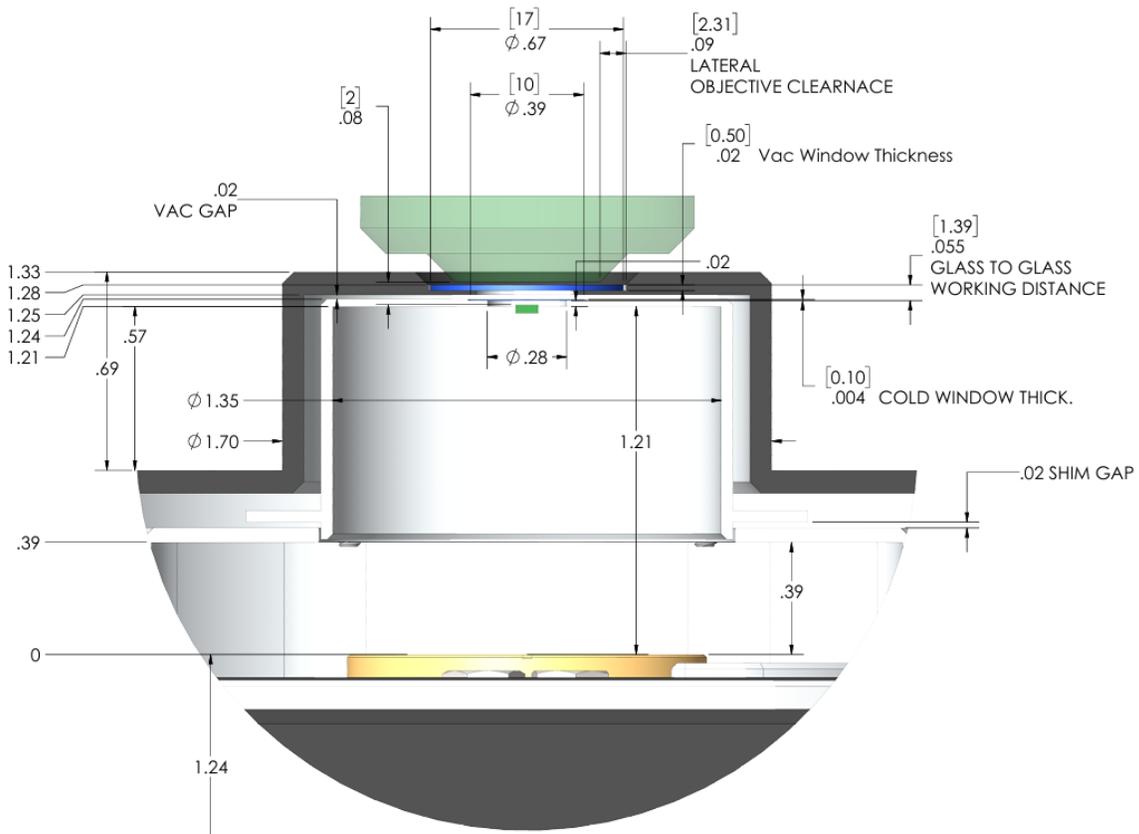
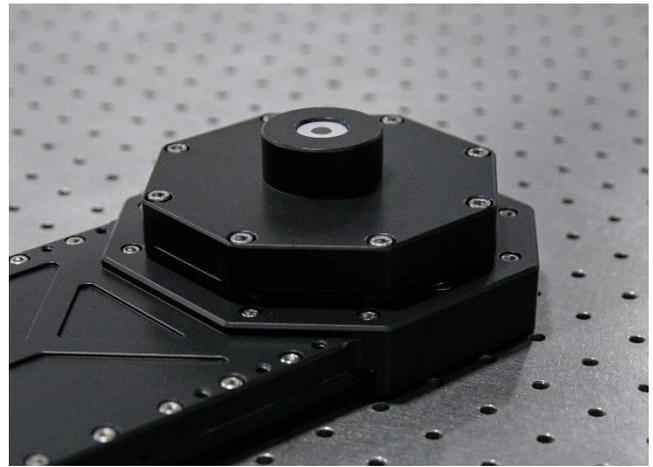
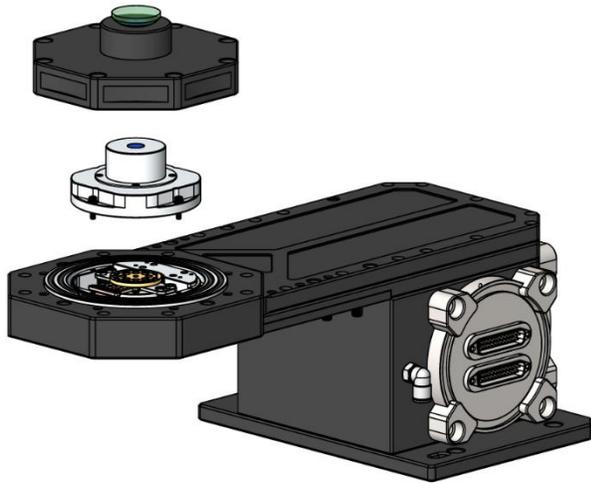


Short Castle

Single, vertical objective

<2.5 mm working distance

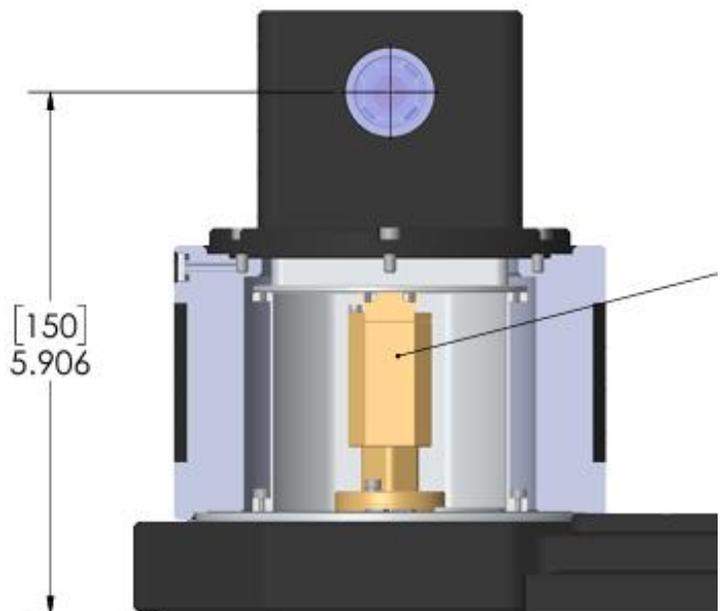
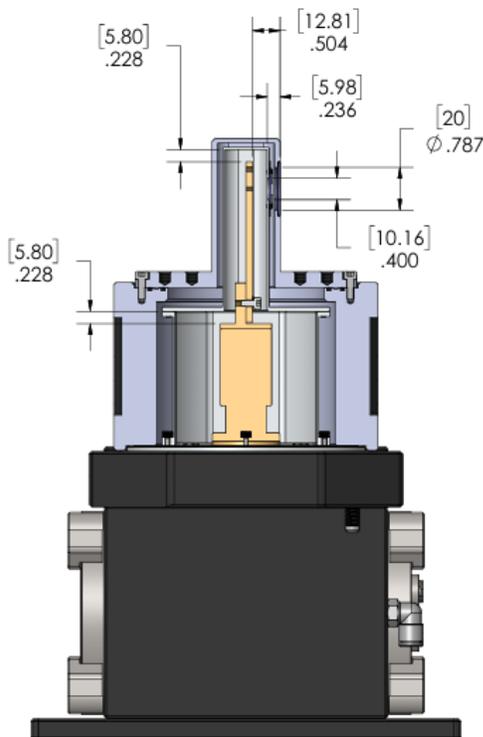
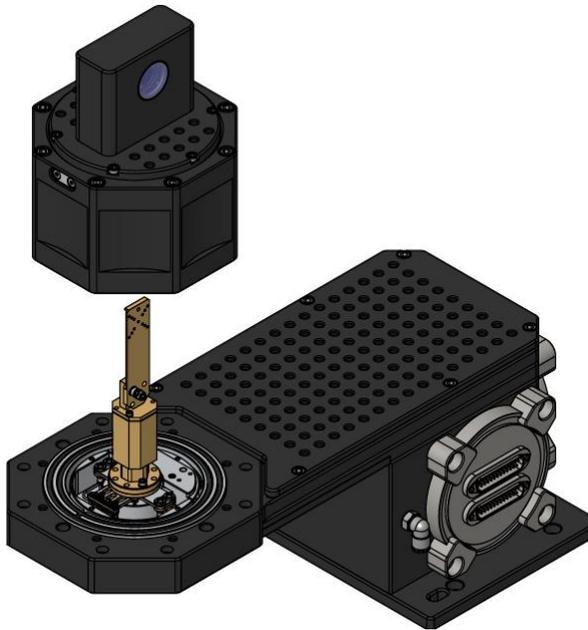
Internal chamber height: 30 mm



Narrow Castle

Single, horizontal objective

< 8 mm working distance



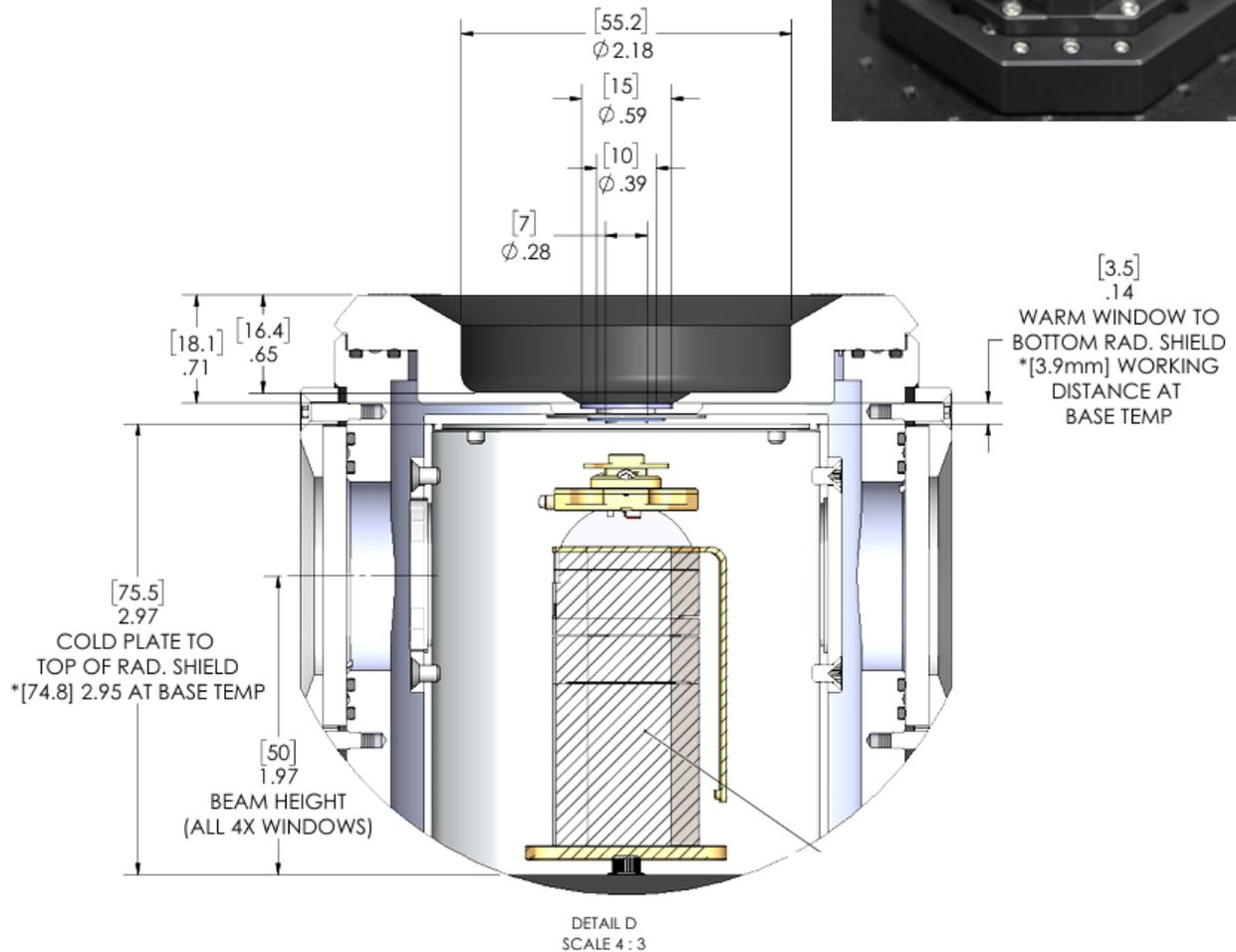
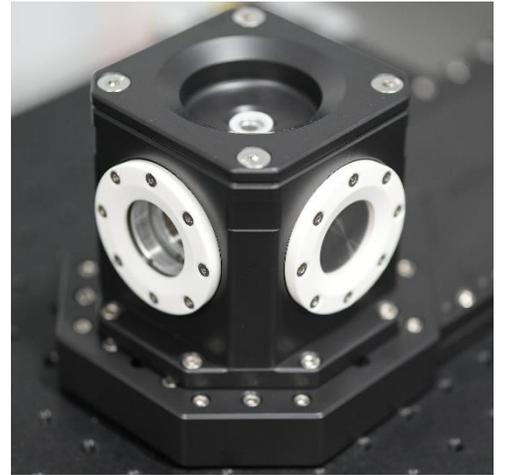
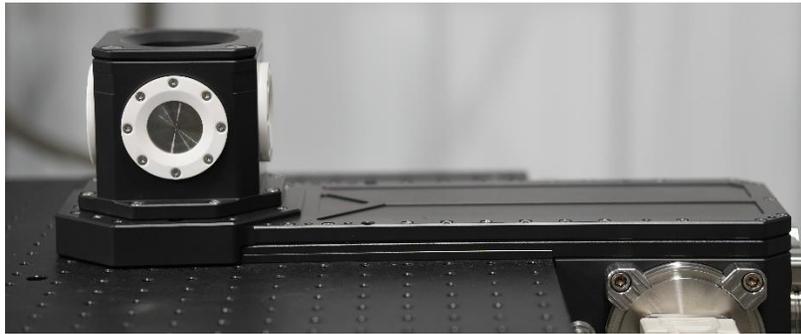
Cube Housing

Single, vertical objective

Four horizontal objectives

< 4 mm working distance

Internal chamber height: 75 mm



Magnet Castle

Single, vertical objective

Single, horizontal objective

< 12 mm working distance

Internal chamber height: 122 mm

