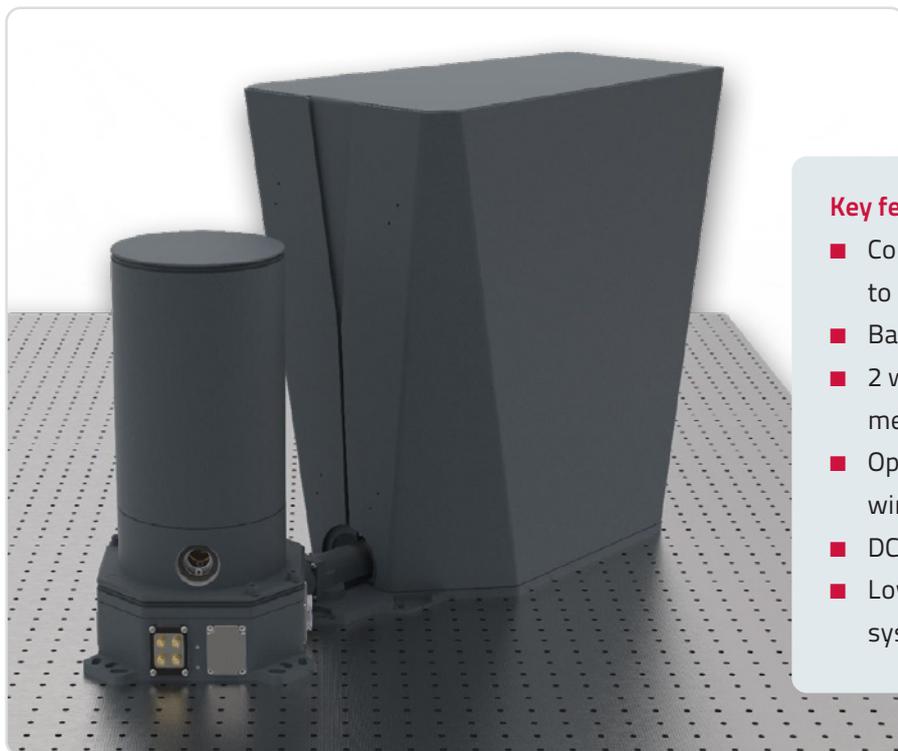


# OneK-Optic Module

1.2 Kelvin research available at the push of a button

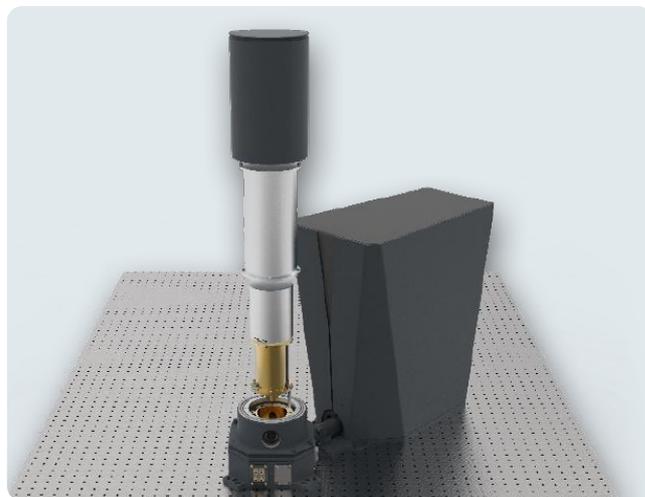
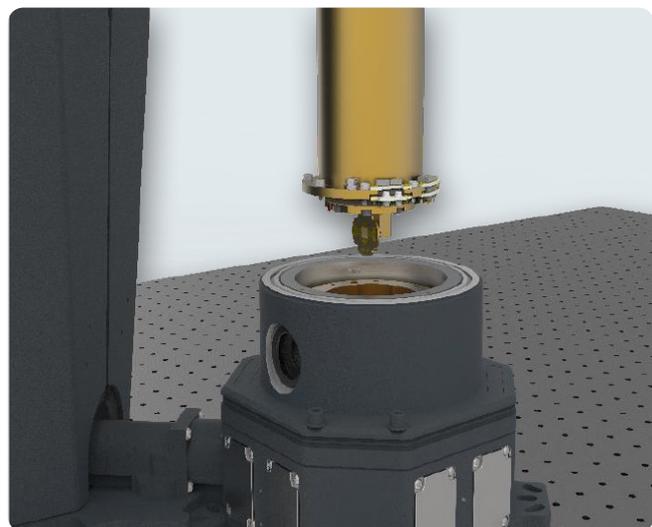


## Key features

- Continuous operation of 8 hours with up to 100 $\mu$ W Cooling Capacity
- Base Temperature <1.2 Kelvin
- 2 windows for transmission or reflective measurements
- Optional 5mm low working distance window
- DC and RF electrical connections
- Low vibration and turn-key cryostat system design

## Extend the CryoAdvance® 100 Temperature Range to 1.2 Kelvin

The OneK-Optic add-on module for 100mm Montana Instruments cryostat systems that allows users to reach sample chamber temperatures of 1.2 Kelvin without sacrificing system functionality including low vibrations, optical access and ease of use. The closed-cycle system allows for low temperature operation greater than 8 hours with an automated recharge.



## Sample Chamber

The OneK-Optic module allows for free space optical access to the sample space via two side optical windows. Up to 8 DC and 2 RF connections are possible with side panel feedthroughs. A variety of standard sample mounts with and without electrical connections are compatible with the module. The OneK-Optic can also be configured with a Low Working Distance (<5mm) window. Contact our sales and application support team to discuss custom window configurations and sample mounts.



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MONTANA INSTRUMENTS

# OneK-Optic Module

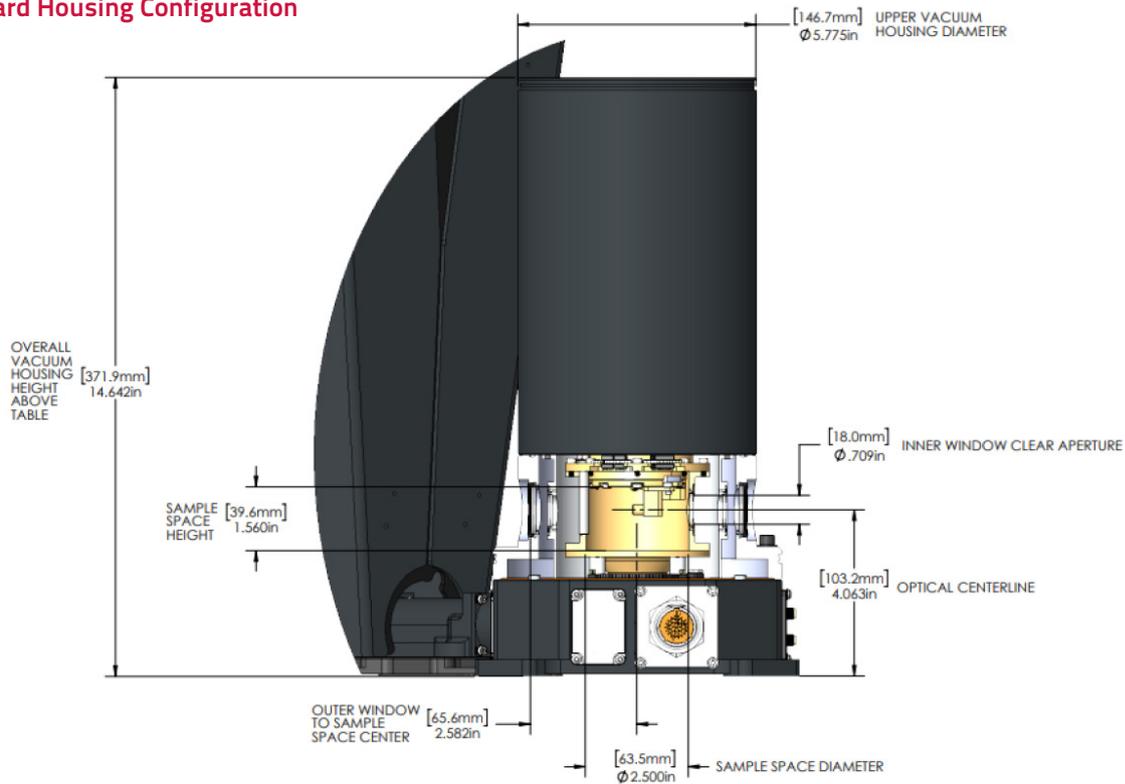
1.2 Kelvin research available at the push of a button

Specifications (PRELIMINARY)	
<b>Dimensions</b>	
Interior Sample Space	Ø63.5 mm x 40 mm
<b>Performance</b>	
Temperature Platform Temperature with module installed	<1.2K
Temperature Stability (P-P)	<10 mK
Cooldown Time to 1.2K Depending on lab and sample environment, including system cooldown to 4.2K	20 hrs
Cooling Power @ 1.2K	100 µW
Hold Time @ 1.2K	>8 hrs
Recharge Time	<3 hrs
<b>Optical Access</b>	
Optical Windows	2 side
Beam Height	53 mm
Acceptance Angle (Full)	19°
<b>Electrical Access</b>	
RF Electrical	2
DC Electrical	8
<b>Options</b>	
Sample Mounts	RF/DC, RF only, DC only, flat sample plate, custom
Optical	Low Working Distance Window Substrate

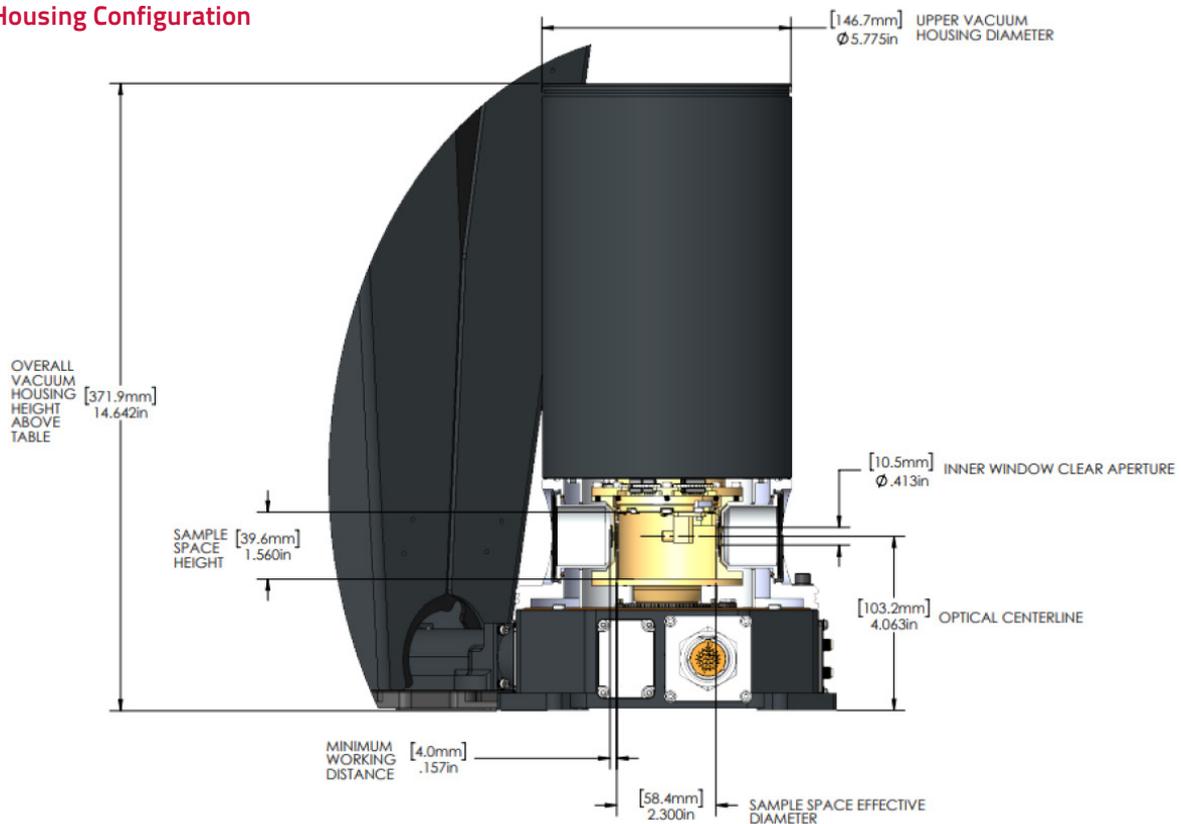
# OneK-Optic Module

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## Standard Housing Configuration



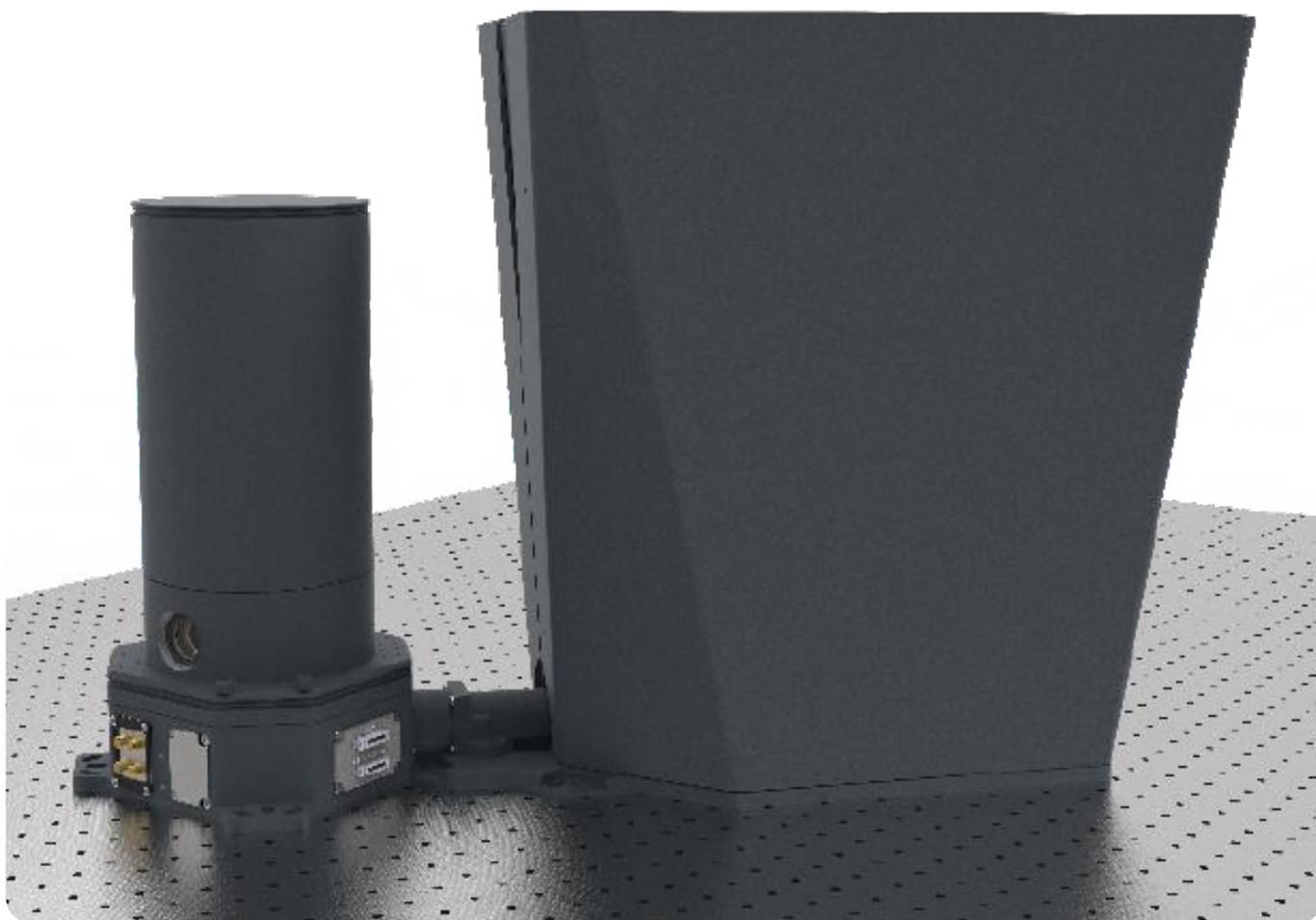
## LWD Housing Configuration



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