



Quantum Design 中国

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多功能无液氦快速变温光学系统 报价单

致: 松山湖材料实验室 许智老师

(有效期至: 2025-12-31)



制 造 商: 美国 Montana Instruments 公司

产品型号: CRYOADVANCE

价格形式: CIP 广州机场

付款方式: 30%预付, 60%发货前付, 10%验收后付

交货日期: 合同签订后 6 个月内

保修日期: 验收后 12 个月

The quoted prices do not include state or local sales, duties, use, excise or similar taxes. These are the responsibility of the purchaser.

所有报价均为免税价, 不含任何关税和增值税等。

This Quotation is only for China mainland buyer. 本报价仅对中国大陆买方有效。

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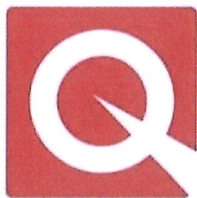
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1. basic system

Item	Description	Qty.
Platform	50mm CryoAdvance Platform 主机平台 Automated, optical cryostat system and sample environment with closed-cycle, cryogen-free cryocooler. The 50mm diameter sample platform includes the following standard options: 1) 20x DC platform feedthroughs, 2) one side-panel with 2x SMA RF channels and a 25-channel DC with Mini D25 connector. Platform has one additional I/O port that is configurable using standard side-panel options: dual fiber, dual RF, or KF25 vacuum port. System includes touchscreen user-interface, one rack-mountable enclosure unit containing system control, temperature control, diaphragm vacuum pump. Compatible with CO, MO, standard sample mounts and piezo-nanopositioners.	1
Vacuum	Vacuum Module 真空模块 IEC 3.0 System Controller with Standard Vacuum pumping control module is included with the system platform. This assembly includes all required cables & region-specific power plugs.	1
Compressor	Air-cooled helium compressor 风冷式压缩机 Helium Compressor - Closed-cycle, air-cooled unit that supplies compressed helium to the Cryoadvance platform for chamber cooling. Includes 30ft helium hoses, cold head control cable, and country-specific power plug.	1
Positioning	Manually Adjustable Positioner, Thermally Damped 手动调节台 Fully-integrated, closed-loop, 3-axis (XYZ) piezo-driven, slip-stick style nanopositioners. Includes tabletop AMC300 controller module, flexible thermal link, and vacuum-side wiring harness. Allows for 5 mm sample translation in each axis. 2x ANPx101 & 1x ANPz102	1
Housing	116mm Vacuum Housing 样品腔 CA-50 External vacuum housing & internal radiation shield with 116 mm	1

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	internal vertical clearance in the sample space enabling a beam height of 140mm from the table. No windows are included with this assembly.	
Side Panel	Side Panel - Dual RF + MD25 DC 接线面板 SMA-SMP RF channel connectors plus one MicroD-25 feedthrough - includes 2x semi-rigid coax line routed to sample chamber and MicroD-25 connector on inside and outside of panel. This unit comes standard on the CryoAdvance-50 models for nanopositioner control and does not include any DC wiring to/from panel; an internal DC wiring harness would come with a positioner.	1
Adapter	Agile Temperature Sample Mount (ATSM) - Exchange Boss Style 快速变温台 ATSM allows rapid and precise sample temperature control independent from platform temperature. Range is from base temperature to 350K. Compatible with adjustable sample mount or positioner. Kit Includes right-angle bracket for alternate sample orientation.	1
Mount	Flat Plate Sample Mount 平板样品台 Flat plate for directly affixing sample. Attaches to standard mount & positioners.	1
Window	Low Working Distance Window Set - uncoated FS 近工作距离窗片 Full set of uncoated Fused Silica windows - includes 4x 30mm dia. windows for the radiation shield, 4x 50mm dia. windows in the vacuum housing. Low working distance functionality is enabled by one 11.9mm x .5mm window in the vacuum housing lid, and one 6mm x .5mm window in the top optical port of the radiation shield.	1
以上配置, CIP国内主要机场, 优惠后免税价格: \$165,000		

主要技术参数**1. 基系统**

- 1.1 ★冷头部分可以被放置于光学平台上, 并和制冷压缩机分开; 冷头需采用变频制冷技术;
- 1.2 设备无需消耗液氦或液氮制冷液;
- 1.3 ▲压缩机为风冷式压缩机, 无需水冷;

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1.4 ★基系统温度特性: 无负载情况下样品台最低温 $\leq 3.2\text{K}$; 无负载情况下从 300K 降至 4.2K 降温时间 ≤ 3 小时;

1.5 ★系统震动稳定性: 无负载情况下样品台震动峰峰值 $\leq 5\text{nm}$;

1.6 基系统真空特性:

1.6.1 样品处于真空环境, 低温工作时样品腔内真空度 $\leq 0.1\text{m Torr}$;

1.6.2 ★样品台通过固态传导制冷, 非氦气传导制冷;

1.7 系统样品腔:

1.7.1 ▲光学窗口数量: ≥ 5 个, 其中顶窗 ≥ 1 个, 侧窗 ≥ 4 个;

1.7.2 光学窗口应具有冷窗热窗两层;

1.7.3 ★顶窗窗口: 工作距离 $\leq 4\text{ mm}$;

1.7.4 ▲侧窗尺寸: 冷窗窗口直径 $\geq 30\text{mm}$, 热窗窗口直径 $\geq 50\text{mm}$;

1.7.5 配备 ≥ 20 个直流电学接口;

1.7.6 ▲配备 ≥ 2 个 RF 接口;

1.7.7 ★样品空间(直径 $\times$ 高度): $\geq 50\text{mm} \times 110\text{mm}$;

1.8 ▲系统操作软件: 采用触摸屏控制;

2. 配备快速变温选件:

2.1 变温范围: 无负载情况下变温范围 $\geq 3.5\text{K} \sim 350\text{K}$;

2.2 ★变温速率: 无负载情况下变温速率 $\geq 300\text{K}/20\text{min}$ 。