MONTANA INSTRUMENTS®

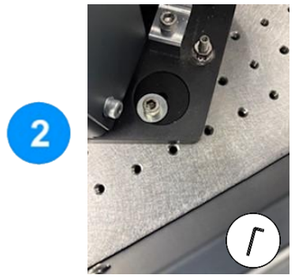
Cryostation 200PT®

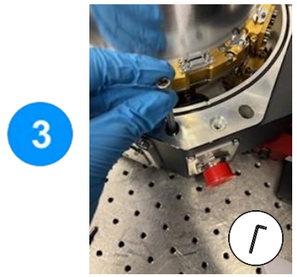
QUICK START

MOUNT CRYOSTATION TO OPTICAL TABLE

1

1. Once on the table, position the cryostation in the desired location.
2. Mount Cryostation to the optical table using provided hardware in the 4 slotted bolt locations (2 front and 2 back side of the cryostation).
3. Mount the sample chamber section of the system to the optical table using provided hardware in each corner of the chamber.

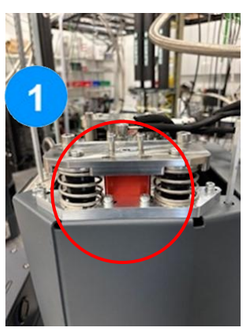


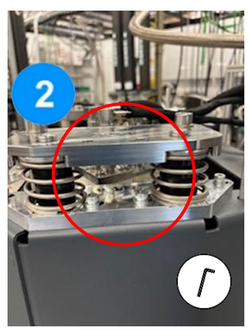


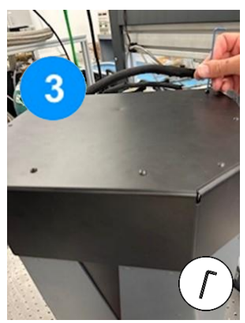
REMOVE SHIPPING SUPPORTS

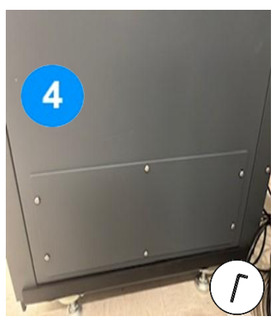
2

1. Locate the red aluminum blocks on either side of the top portion of the cryostation.
2. Remove the lifting eyebolts and screws holding the blocks in place. Remove the blocks. Retain these and the hardware should the cryostation need to be moved or shipped in the future.
3. Replace the top cover of the cryostation.
4. On the left side of the System Rack, remove the cover panel.
5. Remove shipping brackets from Vacuum Control unit by unscrewing the four M5 screws.
6. Replace the cover panel.









CONNECT HOSES AND CABLES / POWER "ON" SYSTEMS AND COMPRESSOR

3

1. **WARNING! CONNECT ALL POWER, COMMUNICATION AND FLUID LINES PICTURED BELOW BEFORE POWERING ON SYSTEMS AND COMPRESSOR. If dry nitrogen is connected, verify that the pressure is set to 10-100 psi MAX. 50-100 psi MAX for turbo-equipped systems.**
2. **Toggle the MAIN POWER beaker switch on the front panel of the compressor ON (I \| O). WARNING! 3 PHASE POWER NEEDS TO BE PROPERLY CONNECTED BY AN ELECTRICIAN BEFORE POWERING ON THE COMPRESSOR**
3. **Initialize power to the vacuum control unit by toggling the power switch on the back of the unit ON (I \| O).**
4. **Initialize power to the system control unit by toggling the power switch on the back of the unit ON (I \| O).**
5. **Turn on the system control unit by pressing the power button on the front of the unit (Power button will glow when the unit is on).**

1. User Interface
2. LAN
3. Compressor Communication
4. System Control
5. Helium Line
6. Vacuum Hose
7. Nitrogen (N2 Gas)
8. Chilled Water
9. 3 Phase 200V
10. 120-240V
11. Valve Motor
12. Vacuum Controller
13. Compressor
14. Earthquake support bracket

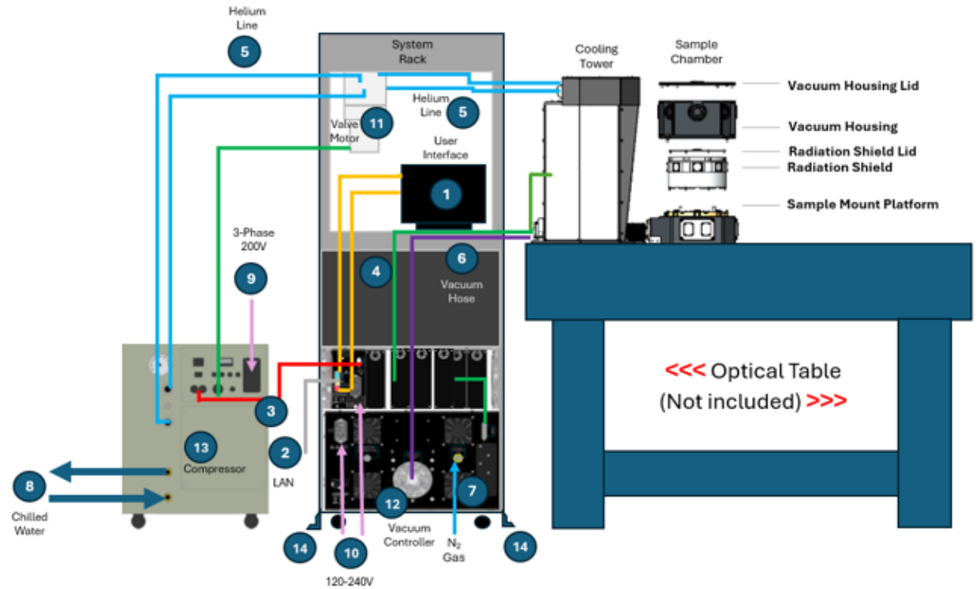


Figure 1: *Cryostation relative system layout and connections*
Note your exact system may differ cosmetically

For more equipment user documentation: https://www.montanainstruments.com/support/product-documentation

ENABLE REMOTE CONNECTION

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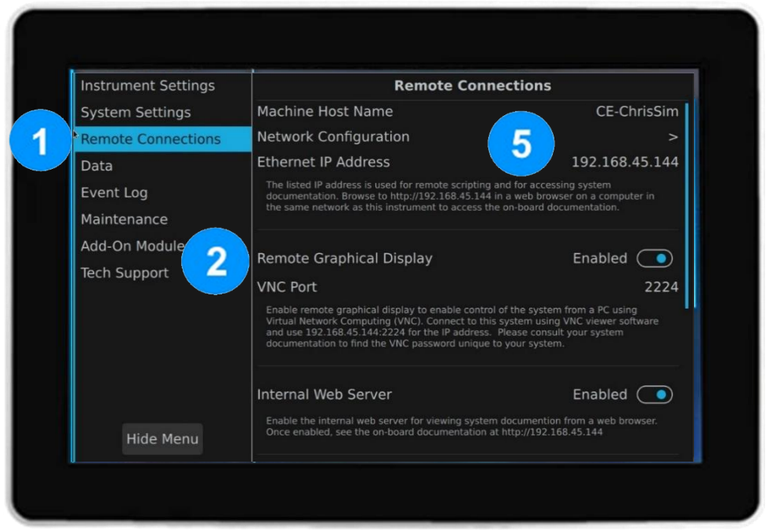
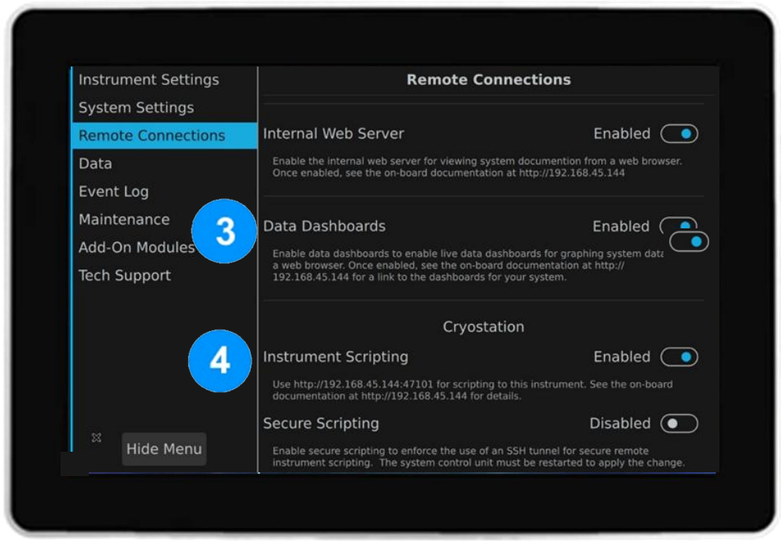
1. **To enable Remote Graphical Display and various connection capabilities navigate to: Menu > Remote Connections.**
2. **Toggle the Remote Graphical Display switch to Enabled.**
3. **Toggle the Data Dashboards switch to Enabled.**
4. **Toggle the Instrument Scripting switch to Enabled.**
5. **Scroll to find the system's unique IP and MAC addresses.**
6. **Type your system's IP address into a web browser to access scripting examples and other useful system documentation.**





CONNECT TO NETWORK (OPTIONAL)

5

Connection to a network is optional for Cryostation operation, but will be required for remote access, control, and viewing. To utilize any of the provided network services, the system control unit must be connected to a local network using the Ethernet port on the rear face of the enclosure. Each service uses a different network port number for communication which may need special firewall access.

YOUR IT DEPARTMENT MAY NEED TO CONFIGURE YOUR NETWORK TO PROVIDE NETWORK ACCESS TO THE DEVICE.

To find your system's IP or MAC address:

- Refer to section **4.5**.
- On the touchscreen UI, navigate to Menu > Remote Connections > Network Configuration.