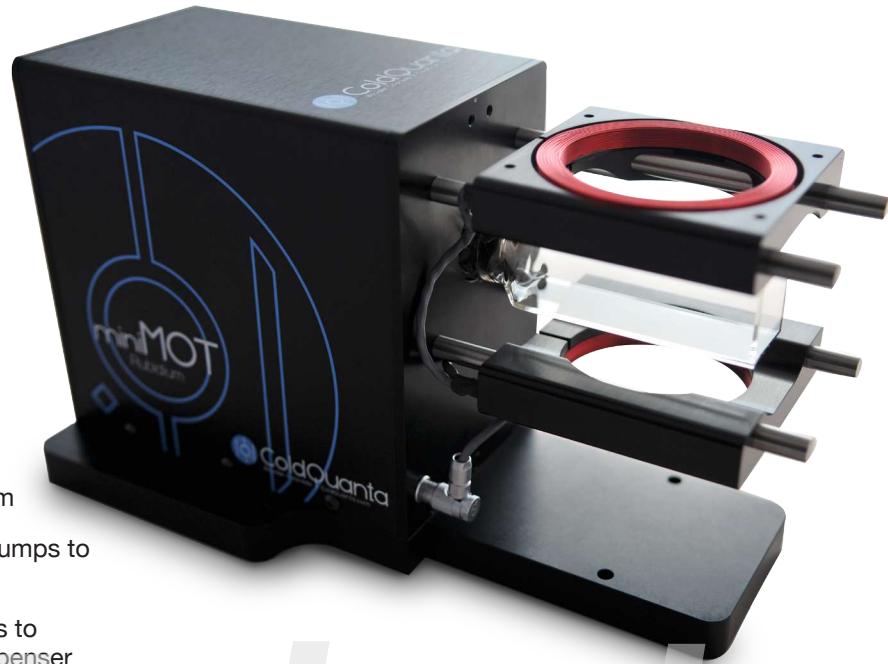


miniMOT



Product

Compact UHV system

Active and passive pumps to maintain vacuum

Integrated electronics to power ion pump, dispenser

Integrated coil driver

Product Description

The miniMOT is a stand-alone UHV system designed for immediate implementation into any educational or research group's cold atom experiments. No knowledge of vacuum processing or vacuum technology is needed as the miniMOT is shipped under vacuum. Containing an integrated ion pump and drivers for the dispenser and MOT coils, the miniMOT frees either the seasoned researcher or student to focus their time on designing and building their experiment instead of the vacuum apparatus. When combined with our miniMOT Coils and miniMOT Kit the user is able to achieve a live MOT within hours (lasers and coupling optics to be provided by the user).

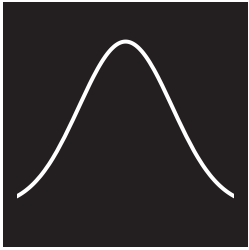
Related Products

The miniMOT system is frequently used in conjunction with:

- miniMOT kit [MK-1000](#)
- AR coated cell [SAR-2016](#)
- MOT Coil assembly [MAG-1000](#)
- 3 axis coil assembly [MAG-3000](#)

Product Specifications

External Dimensions	5.13 x 4.5 x 9.0 inches (13 x 11.5 x 23 cm)
Nominal cell height	3.5 inches (9 cm)
Weight	4.5 lbs (2 kg)
Vacuum quality (with no alkali load)	<10 nTorr
Magnetic field from ion pump at cell center	<0.5 Gauss
Clear aperture of the cell	60 x 18 mm on cell side walls 15 mm diameter at cell end
Alkali metal source	Rubidium or Cesium at natural abundance



miniMOT

Product Options

Alkali metal source

Rubidium: MOT-1000-RB
Cesium: MOT-1000-CS

Glass cell option

The miniMOT is upgradeable to replace the stock glass cell with any of our high-quality AR Coated cells

Mechanical Drawing

