

Adjustable Picas

PRODUCT HIGHLIGHTS

- Available in **rubidium or cesium** models
- Intended for use with **Infleqtion CASC**
- Viewing aperture for **easy 2D MOT imaging**
- Available with **power monitoring photodiodes**

The Infleqtion Picas is a compact, alignment-free beam delivery package. The Picas produces a 2D+ MOT beam configuration with three user-supplied fiber-coupled light inputs, capable of producing a cold atom flux of $>10^9$ atoms/second when used in conjunction with Infleqtion's CASC. The unit is easily integrated onto the CAMAPA coil assembly, allowing for a simple plug-and-play solution to create a 2D MOT. An optional photodiode configuration provides polarization cleaning and power monitoring capability for all three beams.



PRODUCT SPECIFICATIONS

Laser Input Requirements	• 2x 20mW cooling and 0.4mW repumper for 2D MOT
	• 1x 2mW cooling and 0.1mW repumper for push polarization aligned to fiber key (slow axis)
Optical Input	3x FC/APC fiber Inputs
Typical Atom Flux	$>10^9$ pre-cooled atoms per second
Viewing Aperture	7 mm square viewing aperture
Dimensions	101 mm x 130.70 mm x 113.40 mm 3.98 in x 5.15 in x 4.46 in
Weight	1.9 kg (4.18 lbs)

PRODUCT OPTIONS

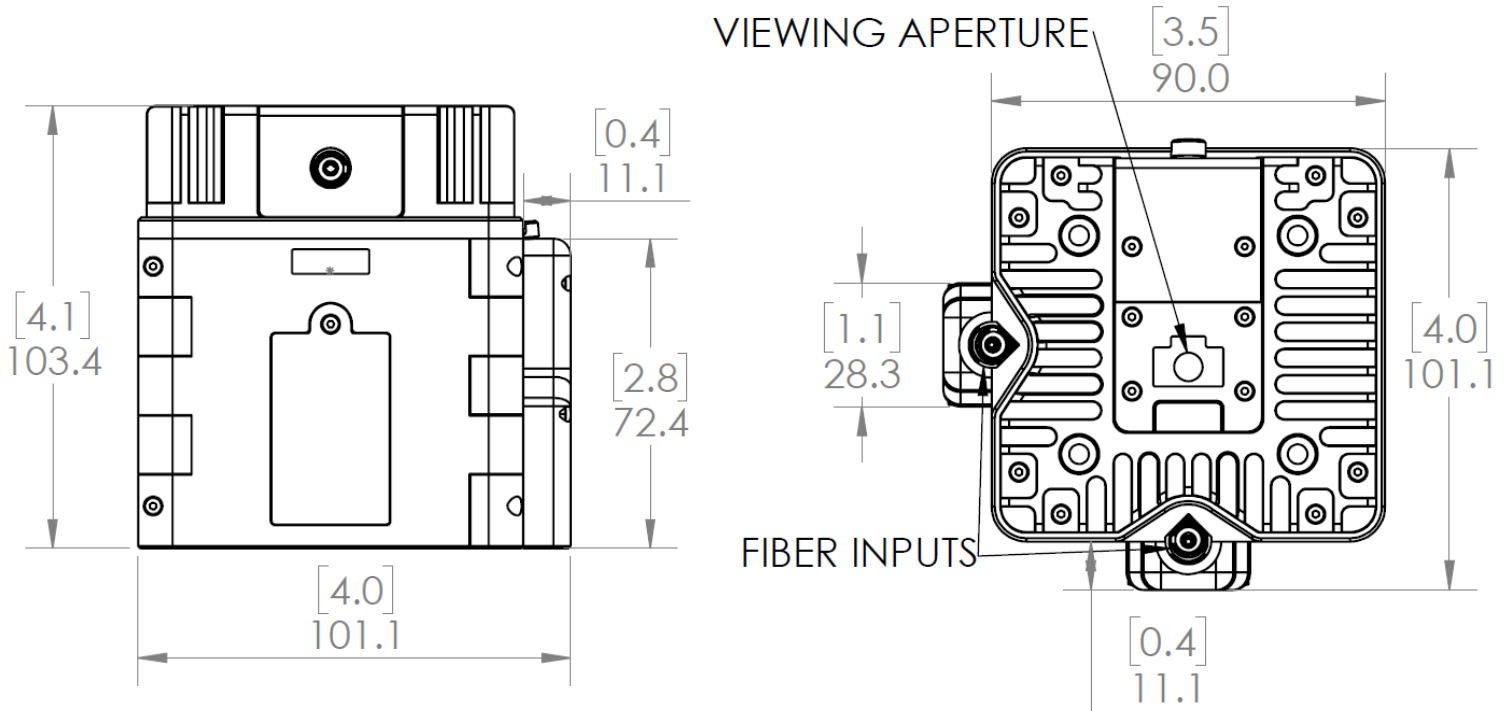
Adjustable PICAS Rb (photodiode)	CPP780AM1S
Adjustable PICAS Rb (no photodiode)	CPP780AM2S
Adjustable PICAS Cs (photodiode)	CPP852AM1S
Adjustable PICAS Cs (no photodiode)	CPP852AM2S

RELATED PRODUCTS

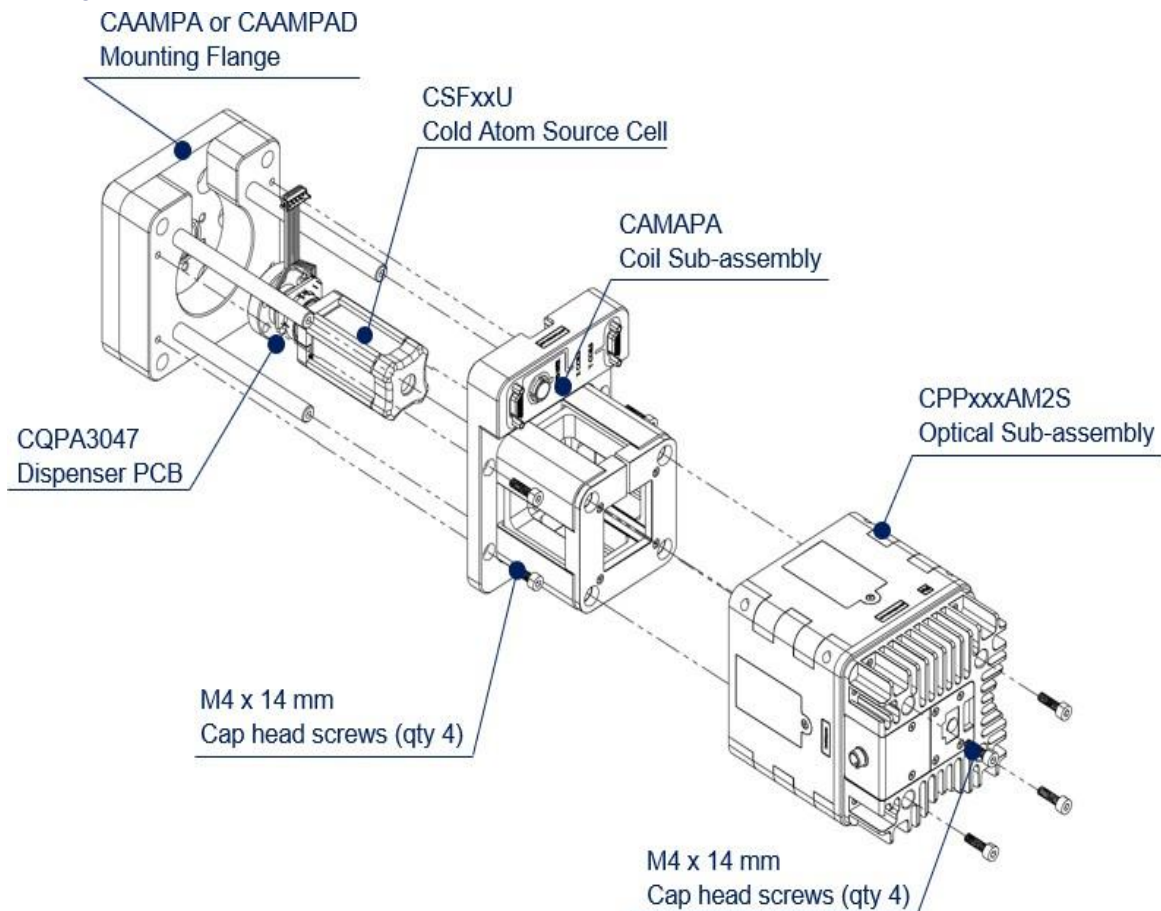
Cold Atom Source Cell (CASC)	CSFRXX
Adjustable Coils	CAMAPA
Mounting plate for doubleMOT	CAAMPAD
Mounting plate for CASC	CAAMPA

For more information,
please contact
sales@infleqtion.com

MECHANICAL DRAWINGS
Measurements in mm and [inches]



Standard Configuration



UNCONTROLLED SALES DRAWING

For more information, please contact sales@infleqtion.com

