

Fixed 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 CAMV2D magnet 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 keyed on fast axis of fiber
Optical Input	3x FC/APC fiber Inputs
Typical Atom Flux	$>10^9$ pre-cooled atoms per second
Viewing Aperture	3 mm Ø viewing aperture
Dimensions	67 mm x 67 mm x 112 mm 2.63 in x 2.63 in x 4.41 in
Weight	0.25 kg
Power Monitoring Photodiodes (Optional)	Polarization cleaning and power monitoring – 3x SMA connector

RELATED PRODUCTS

Cold Atom Source Cell (CASC)	CSFXX
Permanent Magnets	CAMV2D

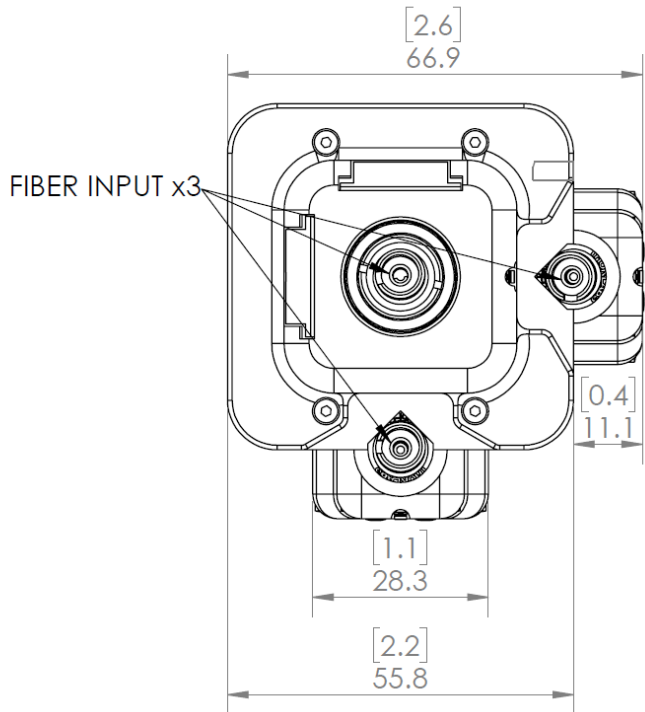
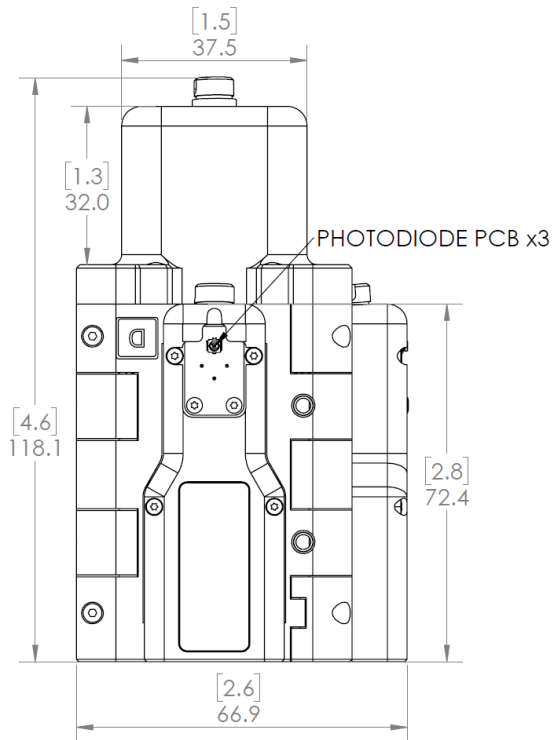
PRODUCT OPTIONS

Fixed PICAS Rb (photodiode)	CPP780FM1S
Fixed PICAS Rb (no photodiode)	CPP780FM2S
Fixed PICAS Cs (photodiode)	CPP852FM1S
Fixed PICAS Cs (no photodiode)	CPP852FM2S

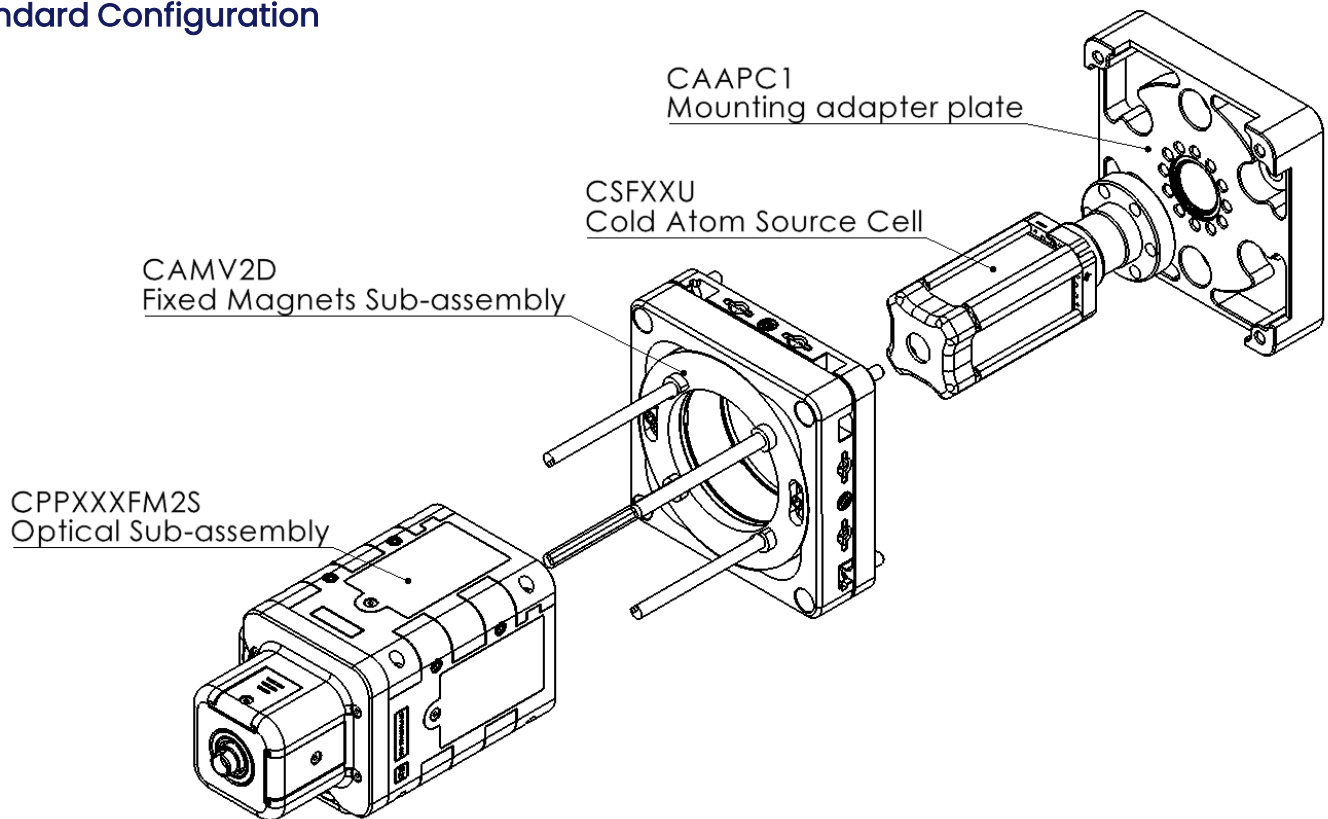
For more information,
please contact
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MECHANICAL DRAWINGS

Measurements in mm and [inches]



Standard Configuration



UNCONTROLLED SALES DRAWINGS

For more information, please contact sales@infleqtion.com

