Observation Unit with Coaxial Illumination | OUCI-2 RoHS Catalog Code W2012

This compact microscope body is a customizable high performance imaging system for use in a wide range of applications from scientific research to industrial production equipment.

- Accepts a wide variety of infinity corrected objectives.
- Can be combined with a wide variety of optional components to accomadate many applications.

Guide

- Support Infinity corrected objective lenses
- Support Olympus made objective lenses at various magnifications as standard
- The coaxial epi-illumination of the light guide enables the observation of bright fields. The contrast of the illuminated light can be adjusted with an aperture stop.

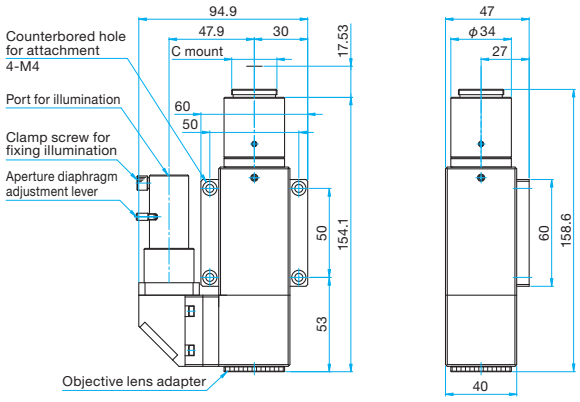
Specifications

Part Number	OUCI-2	OUCI-M1M1
Camera port	1	2
Imaging lens focal length [mm]	200	200
Camera mount	C mount (less than 2/3)	
Mounting screw for Objective lens	M20.32 P=0.706 M26 P=0.706	

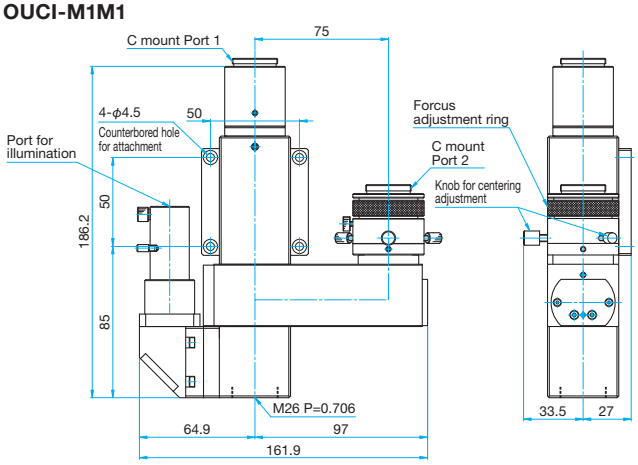
Outline Drawing

(in mm)

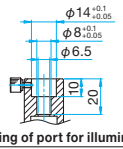
OUCI-2



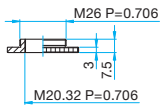
OUCI-M1M1



OUCI-2 and OUCI-M1M1 Common Specification



Detail drawing of port for illumination



Detail drawing of objective lens adapter

Reference product / Observcation unit with laser input port

- Please contact International Sales Division for more detail.

Specifications

Wavelemgth range [nm]	YAG Laser 266, 355, 532, 1064
Port	3 (Camera port 1, Illumination port 1, Laser input port 1)
Imaging lens focal length [mm]	200
Camera mount	C mount
Mounting thread for Objective lens	M20.32 P=0.706, M26 P=0.706

Dichroic Mount for Laser Introduction | DIMC

RoHS Catalog Code W2041

Allows the introduction of a laser beam into the optical path of the OUCI micrometer body products.

Guide

- Laser introduction direction can be adjusted in any direction of 360°. Please check the product instruction manual about the adjustment method. *Not included adjustment tool (Hex wrench).
- The tilt adjustment of the internal mirror can be available. Please check the product instruction manual about the adjustment method. *Not included adjustment tools (Hex wrench and screwdriver).
- Mounting standard of the objective lens is M26 P=0.706, but for mounting the conversion adapter attached to the observation unit with coaxial illumination conversion adapter, M20.32 P=0.706 can be available.
- A wide variety of objective lenses is available. Reference B189 – (Long working distance objective lens, NUV objective lens and NIR objective lens)

Attention

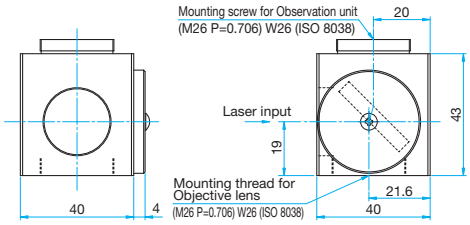
- There is an adjustment mechanism in the internal mirror, but it is for only fine adjustment.
- Incident of the laser beam is requested vertically as much as possible.
- There is a possibility that the image of the coaxial observation in the laser introduction is not clear.

Specifications

Part Number	DIMC-355R	DIMC-532R	DIMC-1064R
Wavelength Range	355	532	1064
Input aperture [mm]	ϕ10		
Reflectance [%]	>99.5 (355nm)	>99.5 (532nm)	>99.5 (1064nm)
Laser Damage Threshold* [J/cm²]	5 (355nm)	8 (532nm)	20 (1064nm)
Mounting screw thread for Observation unit	M26 P=0.706		
Mounting screw for Objective lens	M26 P=0.706		
Weight (Kg)	0.12	0.12	0.12

* Laser pulse width 10ns, repetition frequency 20Hz

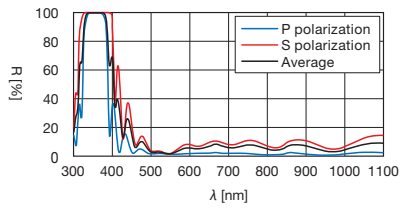
Outline Drawing (in mm)



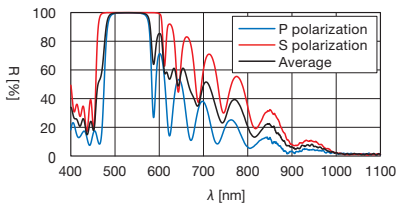
Spectral Distribution

R: Reflectance

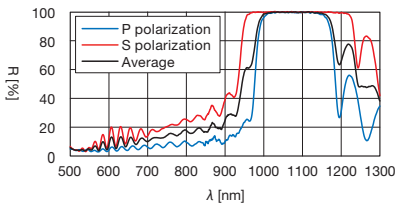
DIMC-355R



DIMC-532R



DIMC-1064R



C Mount Adapter | CACM

RoHS Catalog Code W2042

This is an adapter for attachment of a C-mount camera to the OUCI microscope bodies. It allows the camera position to be adjusted perpendicular to the optical axis. It can also be used with the dichroic case to adjust the focal position and centering of the laser beam entering the dichroic case.

Attention

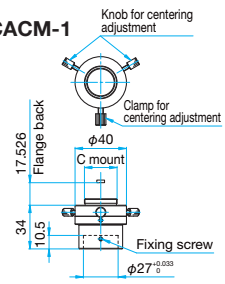
- These are designed specifically for C mount cameras. CS-mount cameras will be positioned 5mm past there ideal focal point.
- When mounting to the Observation unit, a 1.5mm hex wrench (not included) is required.

Specifications

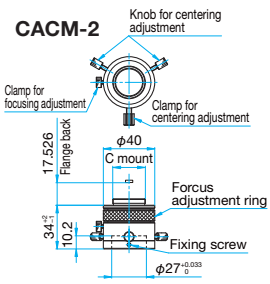
Part Number	CACM-1	CACM-2	CACM-3
Centering adjustment range [mm]	ϕ2	ϕ2	—
Focusing adjustment range [mm]	—	3	3
Weight [Kg]	0.1	0.11	0.08

Outline Drawing (in mm)

CACM-1



CACM-2



CACM-3