

Interferometers Unit

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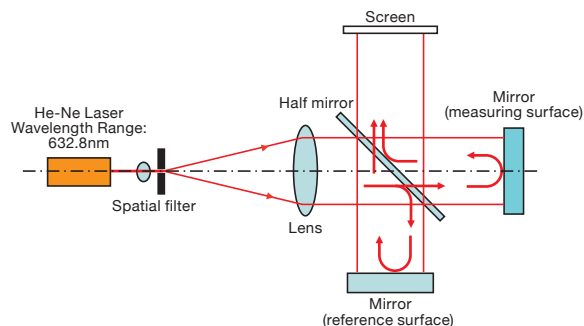
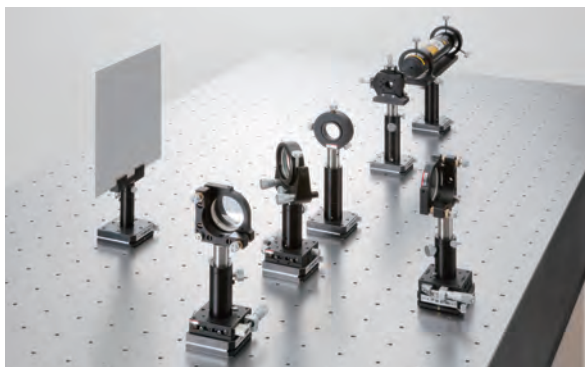
Inspection/Observation

Bio-photonics

Laser Processing

Michelson Interferometer | IFS2-MI-25

Catalog Code **W1001**

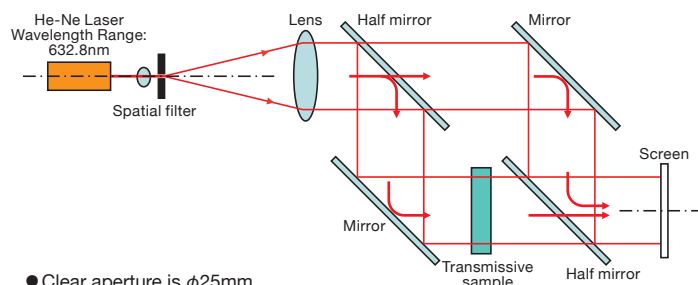


● Clear aperture is $\phi 25\text{mm}$

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Laser Components	IFC2-L	1	171
Spatial Filter Component	IFC2-SF	1	165
Collimator Lens Component	IFC2-CL	1	160
Mirror Component	IFC2-M	2	173
Beamsplitter Component	IFC2-BS	1	178
Screen Component	IFC2-SC	1	222.5

Mach-Zehnder Interferometer | IFS2-MZ-25

Catalog Code **W1002**

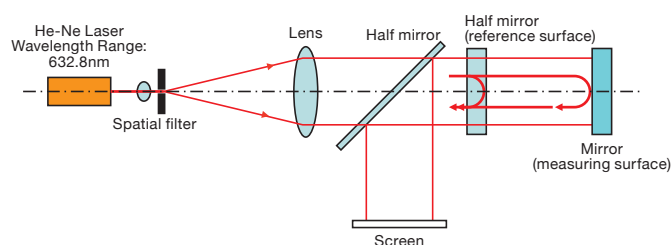


● Clear aperture is $\phi 25\text{mm}$

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Laser Components	IFC2-L	1	171
Spatial Filter Component	IFC2-SF	1	165
Collimator Lens Component	IFC2-CL	1	160
Mirror Component	IFC2-M	2	173
Beamsplitter Component	IFC2-BS	2	178
Screen Component	IFC2-SC	1	222.5

Fizeau Interferometer | IFS2-FZ-25

Catalog Code **W1003**



● Clear aperture is $\phi 25\text{mm}$

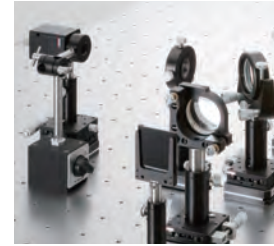
Product Name	Part Number	Quantity	Optical Axis Height [mm]
Laser Components	IFC2-L	1	171
Spatial Filter Component	IFC2-SF	1	165
Collimator Lens Component	IFC2-CL	1	160
Mirror Component	IFC2-M	1	173
Beamsplitter Component	IFC2-BS	2	178
Screen Component	IFC2-SC	1	222.5

Camera Observation Unit | IFS2-CMR

Catalog Code W1043

You can load interference fringe images onto a PC by replacing the screen component of an interferometer to the imaging lens component and camera component. Before purchase, check the focus position of the camera and the available range for observation by the camera.

In addition, direct irradiation of laser light will cause saturation due to the high sensitivity of the USB camera. To prevent this, insert a polarization filter for light intensity adjustment on the laser side, and an ND filter on the camera side.

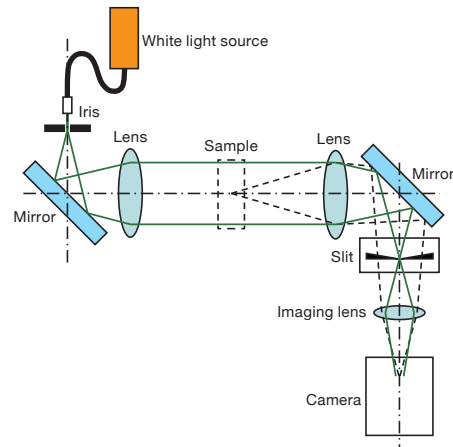


Product Name	Part Number	Quantity	Optical Axis Height [mm]
Polarization Filter Component	IFC2-PF	1	175
Imaging Lens Component	IFC2-KL	1	178
Filter Component	IFC2-AF	1	171
Camera Component	IFC2-UC2	1	179.5

Schlieren | SRS

Catalog Code W1005

Optical system for quantitative observation of air flow or streams in glass (striae). It expresses invisible minute variations in refractive index with intensity of optical luminance. Projection images of Schlieren can be observed on a monitor using an image sensor.



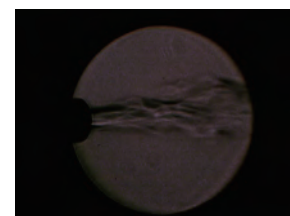
Product Name	Part Number	Quantity	Optical Axis Height [mm]
White Light Source Component	SRS-WL	1	171
Iris Diaphragm Component	IFC2-IR	1	169.5
Collimator Lens Component	IFC2-CL	2	160
Mirror Component	IFC2-M	2	173
Slit Component	SRS-SL	1	170
Imaging Lens Component	IFC2-KL	1	178
Camera Component	IFC2-UC2	1	179.5

- Use of white light source provides clear images without irrelevant noises or diffraction fringes.
- Since the intensity of white light is low, requires a darkroom to observe images projected on the screen.
- Allows variations in observation area by changing focal length of the imaging lens or position of a sample, lens or camera. Before purchase, check the observation area.
- The maximum observation area is $\phi 27\text{mm}$. Contact us if you need a larger observation area.

Observation of Air Flow ejected by Air Blower



Ejection Volume is Low



Ejection Volume is High