Components

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motoeized Stages

Light Sources & Laser Safety

Index

Microscope Unit

Alignment

Interferometers

Inspection/ Observation Bio-photonics

Laser Processing



You can assemble a different optical unit or change the configuration of the unit according to the purpose of an experiment by purchasing additional components. (For example, replacing the screen component with the imaging lens and camera components enables loading of observed images.) In addition, we offer variety of components required for optical adjustment and safety control.



Laser Component | IFC2-L



He-Ne laser component excellent in coherence and provides linear polarized beam with stable output Wavelength: 632.8nm, Output: 1mW

Catalog W1006

Catalog W1008

Product Name	Part Number	Quantity	Optical Axis Height [mm]
He-Ne Laser	05-LHP-111	1	
Laser Power Source	05-LPL-911-065	1	
Laser Holders	LAH-1	1	71
Post Holder	BRS-20-80	1	80
Magnet Base	MB-L65C-M4	1	20
Total			171

Spatial Filter Component | IFC2-SF



Emits diverging rays of Gaussian distribution without distortion by transmitting a laser beam focused by an objective lens through a pinhole. To provide clean spherical waves, it can remove wavefront distortion caused by dirt on the objective lens or the like from the laser beam.

Catalog W1007

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Spatial Filter Holders	SFB-16RO-OBL20-25	1	65
Post Holder	BRS-20-80	1	80
Magnet Base	MB-L65C-M4	1	20
Total			165

Collimator Lens Component | IFC2-CL



Converts spherical waves emitted from the spatial filter holder to collimated light. Not fitted with a stage. Focal length: 300mm

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Achromatic Lens	DLB-30-300PM	1	
Lens Holder	LHCM-30	1	60
Post Holder	BRS-12-80	1	80
Magnet Base	MB-L65C-M4	1	20
Total			160

Mirror Component | IFC2-M



Uses an aluminum total-reflection mirror having high surface accuracy, providing straight interference fringes. The mirror component is fitted with a stage for optical axis adjustment or interference fringe phase shift experiments.

Catalog W1009

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Aluminum Total-reflection Mirror	TFA-50C08-20	1	
Kinematic Mirror Holder	MHG-MP50-NL	1	35
Post	RO-20-80	1	40
Post Holder	BRS-20-60	1	60
Linear Stage	TSD-601S	1	18
Magnet Base	MB-L65C-M4	1	20
Total			173





Beamsplitter Component | IFC2-BS



Utilizes a plate-type dielectric multilayer half mirror that provides lower intensity loss by dividing light into transmitted light and reflected light

to 1:1. The beamsplitter component is fitted with a stage for optical adjustment.

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Multi-layer Half Mirror	PSMH-50C08-10W-550	1	
Gimbal Mirror Holders	MHAN-50S	1	90
Post Holder	BRS-20-50	1	50
Linear Stage	TSD-601S	1	18
Magnet Base	MB-L65C-M4	1	20
Total			178

Imaging Lens Component | IFC2-KL



An imaging lens for loading interference fringe images into a camera. Focal length: 50mm To observe the entire clear aperture ϕ 25mm Sample to imaging lens: 400mm Imaging lens to camera: 57.13mm Before purchase, check the observation range. Fitted with a stage for focus adjustment.

Catalog W1012

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Plano Convex Lens	SLB-30-50PM	1	
Lens Holder	LHCM-30	1	60
Post Holder	BRS-12-80	1	80
Linear Stage	TSD-601S	1	18
Magnet Base	MB-L65C-M4	1	20
Total			178

Screen Component | IFC2-SC

Part Number

Camera Component | IFC2-UC2

Reference A026

BBP-200

KMH-80

BRS-12-60

MB-L65C-M4

Product Name

Square Optics Holder

Total

Flare Plate

Post Holder

Magnet Base

Catalog W1011

Optical Axis

Height [mm]

100

42.5

60

20

222 5

Catalog W1013

Projects interference fringes on a 200mm white plate.

Quantity

1

1

1

1

Loads observation images into a PC

The camera component is fitted with

an YX axis stage, allowing adjustment

by simply connecting the USB

of focus and image position.

camera to a USB port of the PC.

Optics &
Optical
Coatings
oouiligo

Application Systems

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motoeized Stages

Light Sources & Laser Safety

Index

Microscope Unit

Alignment

Interferometers

Inspection/ Observation

Bio-photonics

Laser Processing

Product Name	Part Number	Quantity	Optical Axis Height [mm]
USB Camera	STC-MCA5MUSB3	1	14
Mount for Camera	STC-TP-HCA	1	6.5
USB3.0 Cable	STC-NU3MBASU3B-3.5	1	
Inch Screw Thread Post	ROU-12-80	1	40
Post Holder	BRS-12-60	1	60
Spacer	SP-127-1	1	7
Linear Stage	TSD-602S	1	32
Magnet Base	MB-L65C-M4	1	20
Total			179.5

Filter Component | IFC2-AF



Catalog W1014

An ND filter installed immediately in front of a camera to attenuate the intensity of laser light to 1% because direct irradiation of laser light into the camera causes saturation.

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Absorptive Filter	AND-20C-01	1	
Lens Holder	LHF-20	1	
Cross Clamps	CCHN-12-12	1	14
Post	PO-12-150	1	102
Magnet Base	MB-CB-PB	1	55
Total			171

Stray Light Block Component | IFC2-BD

Code W1015



Reflected light from the reverse side of a half mirror or multiple-reflected light inside an interferometer sometimes spread out of a laboratory bench as stray light. This component safely blocks such optical paths. It can also be used as a filter since an absorptive ND filter is used.

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Absorptive Filter	AND-50S-01	1	
Filter Holders	FHS-50	1	70
Post Holder	BRS-12-80	1	80
Magnet Base	MB-L65C-M4	1	20
Total			170



Components

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motoeized Stages

Light Sources & Laser Safety

Index

Microscope Unit

Alignment

Interferometers

Inspection/ Observation

Bio-photonics Laser Processing

Polarization Filte	r Component	IFC2-PF
	Cata Coo	^w W1016

Used for adjusting the intensity of He-Ne laser. Use this component when changing laser intensity continuously for optical axis adjustment or camera brightness adjustment. When two units are used in a line, it can turn down the intensity close to zero.

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Visible Sheet Polarizer	SPF-30C-32	1	
Polarizer Holder	PH-30-ARS	1	60
Post Holder	BRS-12-60	1	60
Magnet Base	MB-CB-PB	1	55
Total			175

Iris Diaphragm Component | IFC2-IR

Catalog W1017



Used for clipping a beam into a circle, or cutting out unnecessary light to obtain only necessary light. It is convenient to use the iris diaphragm component as the reference for alignment.

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Iris Diaphragm	IH-30	1	54.5
Post Holder	BRS-12-60	1	60
Magnet Base	MB-CB-PB	1	55
Total			169.5

Slit Component | SRS-SL

Catalog W1018 A slit positioned at the focus spot of

light transmitted through a sample in Schlieren. Contrast of projected images changes by fine adjustment of slit position or width.

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Adjustable Slit	PSL-0	1	55
Post Holder	BRS-12-60	1	60
Magnet Base	MB-CB-PB	1	55
Total			170

Adjustment Lens Component | IFC2-AL Catalog W1019



Used when correctly overlapping two beams in parallel during interference fringe adjustment. After superimposing the spots, remove it from the optical path. Focal length: 300mm

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Plano Convex Lens	SLB-30-300PM	1	
Lens Holder	LHF-30	1	55
Post Holder	BRS-12-60	1	60
Magnet Base	MB-CB-PB	1	55
Total			170

White Light Source Component | SRS-WL

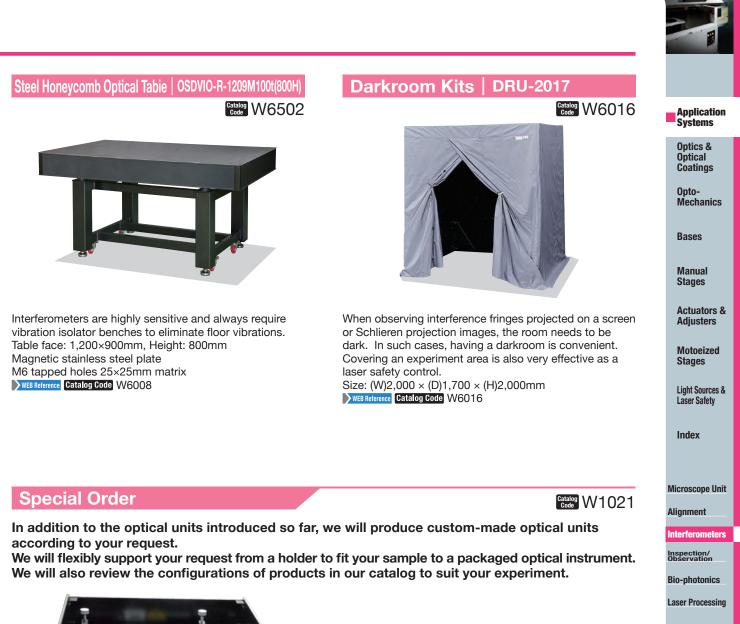
Catalog W1020



White light source used as the light source of Schlieren. It will not heat the optical system because light is transmitted by the light guide.

Product Name	Part Number	Quantity	Optical Axis Height [mm]
Halogen Light Source	SHLA-150	1	
Light Guide	MSL-1000S-10	1	
Adjustable Round Lens Holder	LHA-25	1	
Cross Clamps	CCHN-12-12	1	14
Post	PO-12-150	1	102
Magnet Base	MB-CB-PB	1	55
Total			171





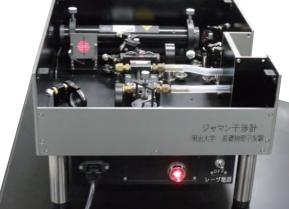


Photo credit: Meiji University, Theoretical Physics Experiment

