

# D-TOP Optical System | DTM

## Micro Observation Interferometer | DTM-MMHI

Catalog Code **W1004**

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

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Microscope Unit

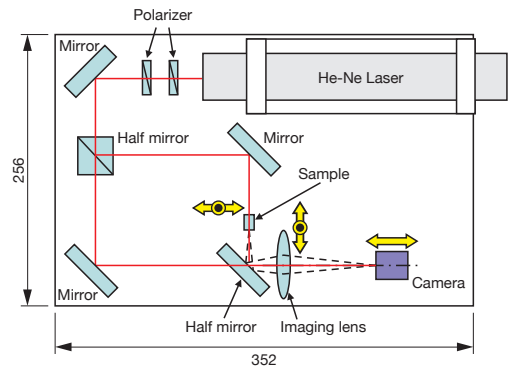
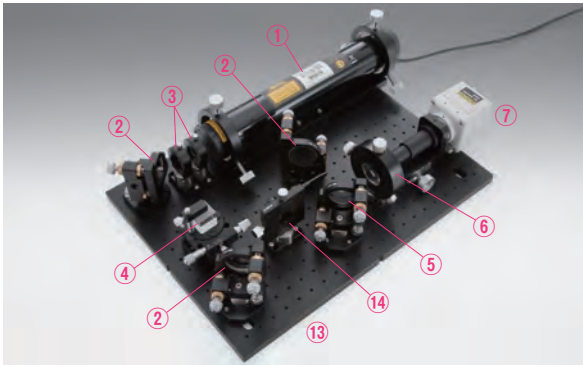
Alignment

Interferometers

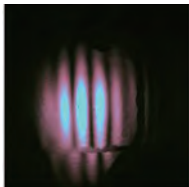
Inspection/Observation

Bio-photonics

Laser Processing



Sample



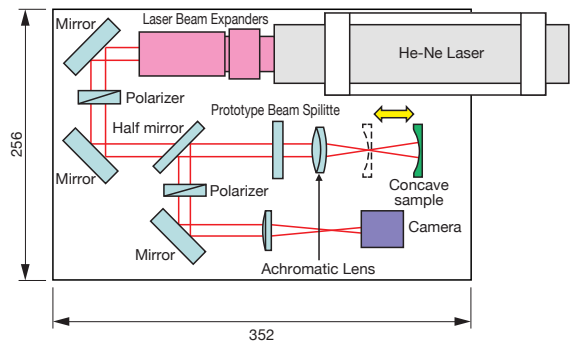
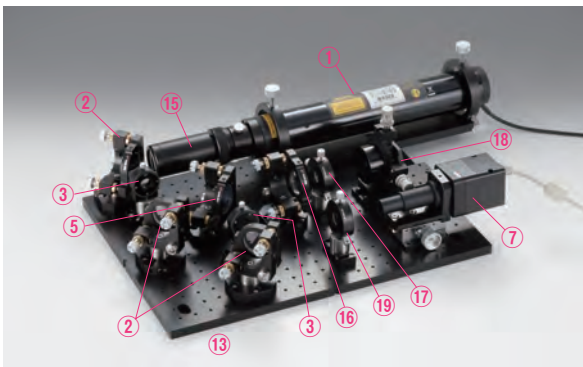
Interference Fringes of Transmitted Wavefronts of the Sample

Mach-Zehnder interferometer that can be observed transmitted wavefront of the glass substrate of about 1mm. By using a base of D-TOP, it shortens the distance to the imaging lens from the sample and is imaged an enlarged image of the sample onto the camera. Images captured by the camera can be taken directly to a PC via USB and kept on record about stop and moving images. In addition, it allows to adjust the brightness of the laser by using two polarizing plates and to be observed in the best image without saturation.

	Product Name	Part Number	Quantity
①	Laser Module	<b>DTM-05-LHP-111</b>	1
②	Mirror Module	<b>DTM-TFA-30C05-10</b>	3
③	Polarizer Module	<b>DTM-SPF-30C-32</b>	2
④	Cube Half Mirror Module	<b>DTM-HBCH-20-550</b>	1
⑤	Plate Half Mirror Module	<b>DTM-PSMH-30C03-10-550</b>	1
⑭	Small Sample Holder Module	<b>DTM-MLF-SF</b>	1
⑥	Lens Module (Convex Lenses)	<b>DTM-SLB-30-50PM</b>	1
⑦	C Mount Camera Module	<b>DTM-CMH</b>	1
⑬	D-TOP Breadboard	<b>DOBC-2632</b>	1

## R Measuring Interferometer | DTM-RMFI

Catalog Code **W1022**



Interference pattern of concave



Concave sample and achromatic lens

It is a device that uses an interferometer and measures the radius of curvature of the concave surface of the small curvature. There are two positions where can be observed interference fringes reflected on the concave surface. One position is that the focus is on a concave surface of the achromatic lens, and the other position is that the focus is on the center of curvature of the concave surface. When reading the micrometer on the stage carrying the sample, the distance between the two positions can be observed the interference fringes of concave sample, and it can be used to determine the precise radius of curvature.

	Product Name	Part Number	Quantity
①	Laser Module	<b>DTM-05-LHP-111</b>	1
⑮	Laser Beam Expanders	<b>LBED-10</b>	1
②	Mirror Module	<b>DTM-TFA-30C05-10</b>	3
③	Polarizer Module	<b>DTM-SPF-30C-32</b>	2
⑤	Plate Half Mirror Module	<b>DTM-PSMH-30C03-10-550</b>	1
⑯	Prototype Beam Splitter Module	<b>DTM-PSM33-30C03-10W-550</b>	1
⑰	Achromatic Doublets Lens Module	<b>DTM-DLB-15-50PM</b>	1
⑱	Concave Sample Holder Module	<b>TAT-AD20-TSD-40801S</b>	1
⑰	Lens Module (Convex Lenses)	<b>DTM-SLB-15-100PM</b>	1
⑦	C Mount Camera Module	<b>DTM-CMH</b>	1
⑬	D-TOP Breadboard	<b>DOBC-2632</b>	1