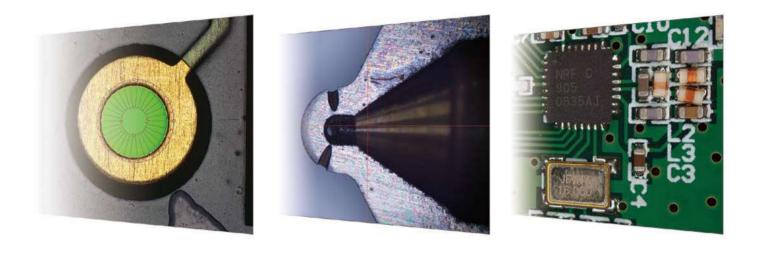


Measuring Microscope

STM7 Series

A Microscope that Measures Up to Individual Needs





The Measuring Microscope Engineered to Fit Your Needs

Whether samples are small or large, simple or complex, or measurements are being taken by a novice or an expert, the Olympus STM7 range features measuring microscopes tailored to fit your needs.



INDEX

■ Wide Coverage Compatible with a range of P.3 measurement and observation needs Operability Simple, efficient operation P.5 Height Measurement Accurately measure samles with P.8 irregular surface Advanced Measurement Software Measure complex forms simply and P.10 accurately Suggested Models Five STM7 suggested configuration P.15

Stage Selection (in mm) 100 x 100, 200 x 200, 300 x 300

> Optics Measuring Objectives/ Metallurgical Objectives

STM7 Series

Frame Manual Focus/ Motorized Focus

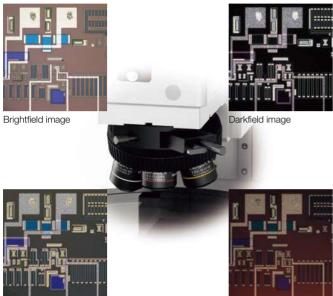
Focusing Equipment Manual Focus Navigator Unit/ Autofocus Unit

Olympus Measurement Software

Accurate Measurements

Refined Optical Performance

The STM7 series uses the same UIS2 infinity-corrected optical system used in state-of-the-art optical microscopes. As a result, observed images have high resolution and high contrast, with aberration thoroughly eliminated to help ensure highly accurate measurement in minute detail.

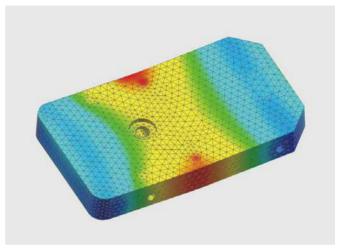


DIC image

POL image

Reliable Measurements with a Stone Stage-Mounting Plate

To provide further assurance of measurement accuracy, the STM7 series uses a highly durable, vibration-resistant frame with a granite surface plate. As a result of this stability, measurements can be taken at sub-micron-levels while ensuring minimal error.

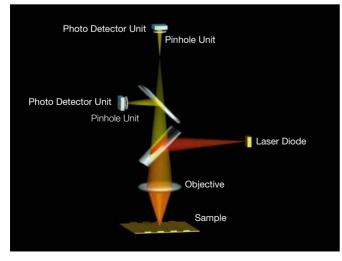


STM7-LF FEM analysis

Provide User-friendly, High-Precision, 3-axis Measurement

As modern manufacturing technology becomes increasingly miniaturized and precise, highly accurate measurements are even more essential—not only along the XY axes, but also along the Z-axis. Olympus has responded to such needs by being the first to realize an autofocus system for measuring microscopes by means of the reflective active, confocal method.





Dependable Quality Based On a Strict Traceability System*

The accuracy of Olympus' measuring microscopes is controlled by a strict traceability system and Olympus even offers traceable calibration at the time of installation.

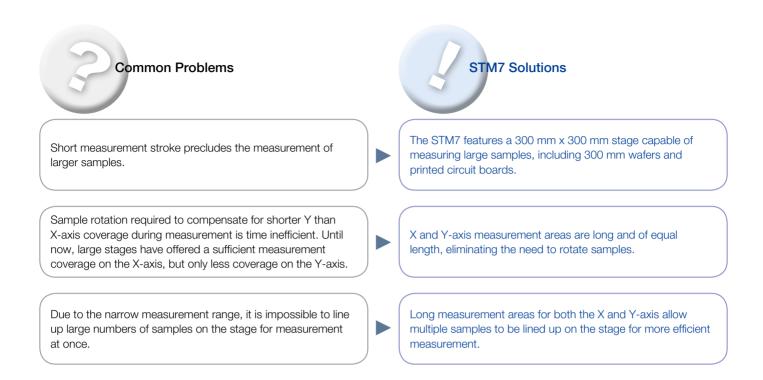


* Calibration certificate issued by Olympus Corporation Test & Analysis Center, and authenticated by ILAC-MRA calibration accreditation agencies (JCSS, JAB).

* Traceability systems vary depending on periods and countries/regions. The samples used

in STM7 calibrations are calibrated in each country/region. Please ask Olympus for details.

Wide Coverage: Stage Stages that Fit Your Samples



Maximum Measurement Stroke 300 mm × 300 mm

Three types of stages are available, each with a unique square measurement stroke (choose from 100 mm x 100 mm, 200 mm x 200 mm, and 300 mm x 300 mm). From small to large size samples, there is a stage that fits the sample being measured.



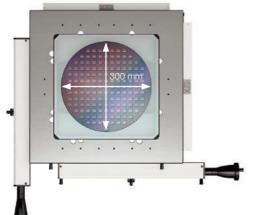
STM7-CS100 100 mm x 100 mm





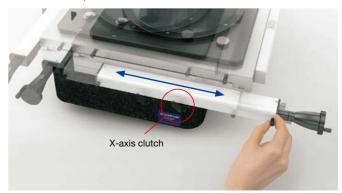
Square Stroke Makes Measuring Large Samples Easier

The 300 mm square length stage enables the same measurement stroke to apply to both the X and Y-axes, which means it can be used to measure large samples, such as 300 mm wafers and printed circuit boards without changing their orientation.



Quickly Switch Between, Coarse and Fine Movements

A clutch system enables rapid switching between coarse and fine movements. Thanks to this switching function, the stage can also be moved rapidly along the X- and Y-axes, and freely across the XY plane.



Wide Coverage: Optics Broad Range of Magnifications and Working Distances

Common Problems

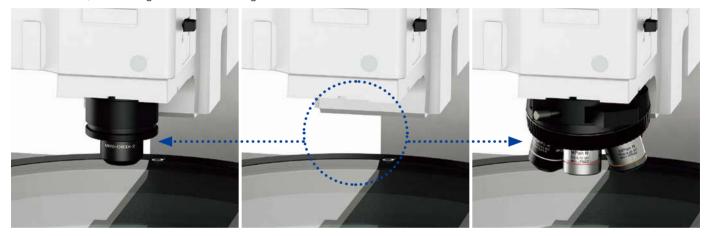
Most conventional measuring microscopes only accept a measuring objective or metallurgical objective, and so are unable to meet the requirements for a wide variety of observations.



The STM7 meets the requirements of a wide variety of observations. It responds to your needs at both low and high magnifications, enables the measurement of uneven samples requiring ultra-long working distance objectives, and even offers a variety of observation methods.

Low- and High-Magnification Observations

The STM7 accepts both a metallurgical objective and a measuring objective by exchanging a revolving nosepiece with a measuring objective adapter. This means that the STM7 combines both metallurgical optics and measuring optics in one microscope. In this way, the STM7 series satisfies a range of needs, whether measuring a wide area or tiny region, measuring the size of differences between levels, or assisting the user in deciding on the best observation method to choose.



Measuring Objectives

Because the measuring objectives have an extremely long working distance, they provide confidence when focusing on samples with large peaks and troughs while reducing worries of the objective coming into contact with the sample. Furthermore, their low-magnification capability enables wide areas to be observed in a single view.





Brightfield image

STM7-MMOBAD: Measuring Objective Mount Adapter

Use of the STM7 measuring objective mount adapter

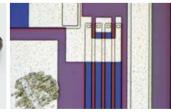
measuring objective adapter enables a measuring objective to be used even in a metallurgical objective optical system.



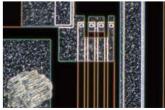
Metallurgical Objectives

Metallurgical objectives enable high-magnification, highresolution observation comparable to that of optical microscopes. What's more, these objectives can be used for brightfield, for darkfield and DIC observation.



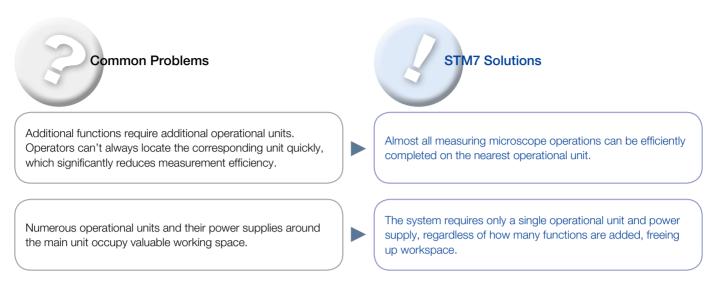


Brightfield image



Darkfield image

Operability: Measuring Microscope Operation A Revolutionary Control Unit Refines Usability



Controllers

With the STM7 series, a single controller makes it possible to perform virtually all measuring microscope operations, including use of readout reset, illumination control, focusing, and autofocus. For efficiency and convenience, the unit can be placed wherever you wish and operated easily with one hand.



Control Box

The power supply and transmission for each unit are combined in a single control box. This preserves maximal workspace even when a range of optional functions, such as the focus navigator, are added.

Manual and Motorized Focusing Model Lineup

Focus control is available with either manual or motorized operation. Choose the model that addresses your needs in terms of samples and measurement content, regardless of stage size—with all frames incorporating a linear scale for the Z-axis that enables 3-axis measurement.



Manual Z-Axis Focus Models

Manual Z-axis focus models offer excellent cost performance with familiar handle operation for rapid vertical movement that offers convenience for users who needs to measure samples with variety of heights.



Motorized Z-Axis Focus Models

Operability is improved and handling fatigue is reduced for focus and height measurements when using the motorized focus unit. The coaxial knobs for coarse and fine movement offer a feeling similar to manual operation, while the models can also be equipped with an autofocus unit.

Operability: Light Intensity Manager Automatic Light Intensity Adjustment Improves Observation and Measurement Efficiency



Analog volume adjustment used by conventional measuring microscopes does not enable the quantitative assessment of light intensity, which can lead to variability in measured values as light intensity changes.



Observations and measurements can always be performed under the same conditions thanks to the STM7's quantitative display of light intensity value.

With conventional measuring microscopes, light intensity may need to be adjusted every time the objective is switched—making for an inefficient workflow.

Illumination method and light intensity are automatically adjusted to the preset value when the objective is switched, whenever the light intensity manager is used in combination with a coded revolving nosepiece.

Precisely Control Light Intensity Values with a Quantitative Digital Display of

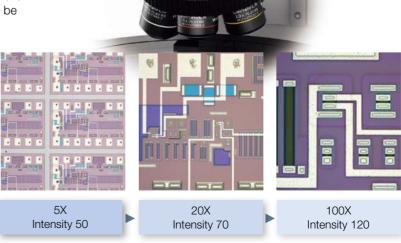
The STM7 series provides a quantitative digital display of light intensity—enabling observations to always be made under consistent illumination conditions.



Digital display shows quantitative light intensity

No More Manual Adjustments

Light intensity manager can be used with the coded revolving nosepiece configuration. The coded revolving nosepiece automatically detects the switching of objectives. This allows the illumination method and light intensity to be registered for each objective and adjusted automatically during measurements when the objective is switched. Now there is no need to manually adjust light intensity, which used to be required with every switch between magnifications.



Operability: Digital Read Out Check Measurement Results and Equipment Status Fast with a Detachable Digital Readout



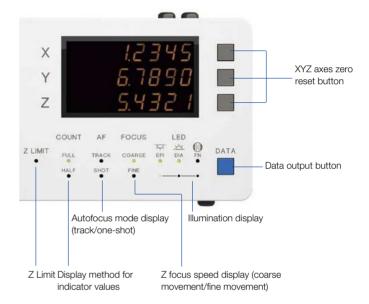
The need to check the operation status of equipment, such as illumination, or measured values on individual units makes overall operation cumbersome.



The STM7 series displays microscope status, such as illumination, together with measured values on an indicator display area, for easy checking at a glance.

Fast, Visual Status Check

The indicator displays the device status and settings. The minimum X, Y, and Z-axis values can be switched between 0.1 μ m and 1 μ m, and the display units can be switched between mm, μ m, inches and mil.



Detachable Digital Readout Enables Individual Preference and Placement

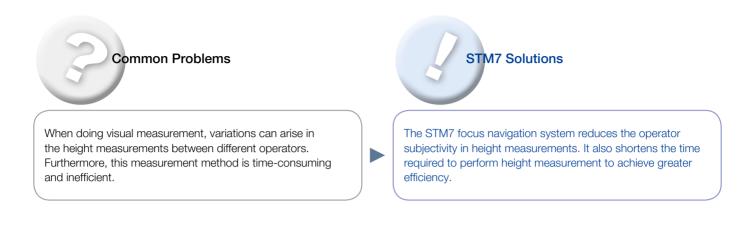
Whether attached to the frame or a desk, the placement of the detachable digital readout is up to the individual user. While standing to take measurements, it can be placed on the side of the frame at almost the same height as the site of observation for an exceptional and easy view. When operating from a sitting position, such as observation or measurements on a monitor via a digital camera or when using the motorized Z-axis focusing model, simply place the digital readout and hand controller on the desk.



Digital readout attached to the frame

Digital readout placed on a desk

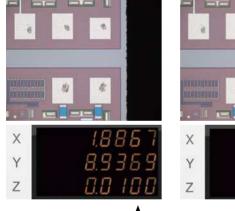
Height Measurement: Focus Navigation System Faster, Simpler, More Accurate Height Measurement



Simple, Precise Focusing System with Superior Repeatability

Olympus' focus navigator delivers highly reproducible height measurement by projecting a pattern within the field of view and identifying vertical deviations. Slight errors can occur in height measurements taken with normal visual observation, even when focus appears to be sharp. The focus navigator, however, enables measurements to be made simply by matching up the marks—thereby reducing operator subjectivity in measurement results.

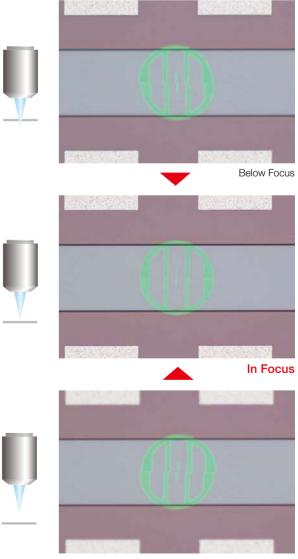
Visual Height Measurement





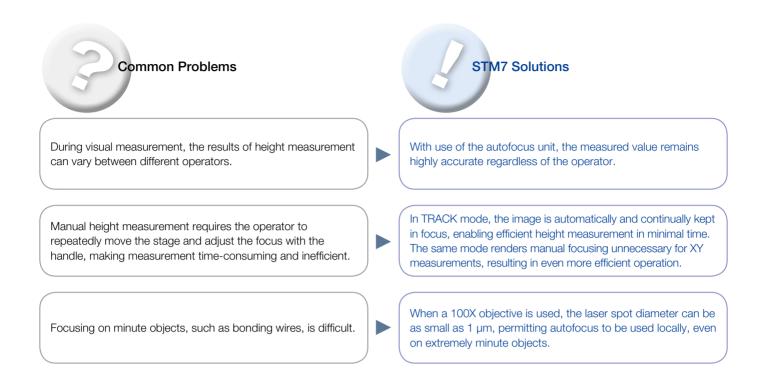
Operator subjectivity at the position at which measurements are taken can introduce differences in measurement results.

Focus Navigator



Above Focus

Height measurement: Autofocus Unit Autofocus Advantage for Fast and Highly Accurate Height Measurement



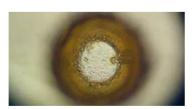
Fast, Accurate, Unbiased Focusing and Measurement

Olympus has developed a dedicated autofocus unit for the STM7 series that delivers excellent reproducibility and rapid focus. As a result, highly accurate height measurements can be made within a short amount of time, irrespective of the level of operator experience.



One-Shot Mode

Instantaneously takes autofocus from a roughly focused state to sharp focus located at the center of the field of view.

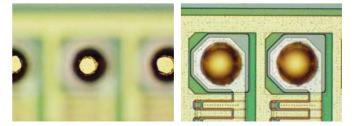


Dedicated Autofocus Unit: Outstanding Reproducibility and Focusing Speed

The STM7 autofocus unit allows highly accurate height measurements to be made with minimal time, regardless of the level of operator experience. Use of the reflective active, confocal method provides a stable focal point independent of surface roughness or a slanting sample surface, while the small laser diameter enables the use of autofocus, even on minute objects, such as bonding wires.

TRACK Mode

The TRACK Mode provides autofocus that tracks the peaks and troughs of the sample, even if the stage is moved, keeping the image continually in focus. This advancement greatly improves the efficiency of Z-axis measurements by enabling observations to be made without taking your hands off the X and Y handles.



Advanced Measurement Software Measure Complex-Shaped Objects Accurately, Quickly, and Simply

The ability to clearly and easily see the output display component of measuring microscopes is essential. That is why the new Olympus measuring software has been created, helping to deliver complex measurements with greater accuracy. The software also enables the use of digital cameras.

STM7-BSW Sample GUI Live Image Display Edge Tool Bar Graphic Shows measured points lines, circles, etc P . **FIG** Digital Indicator * • Objective len 1 MPLNSX 无太 ٥, +12.6091 m Х Y +5.3433 m Q.S. Z +0.0000 ... List <New list> -ান হি -1 Measurement Menu Measurement Results List Shows measurement procedure



STM7 with Measurement Support System

Available Cameras

High - performance model with high speed live display

 DP27

 Image resolution
 1920 x 960 2448 x 1920

 Frame rate
 30 fps (1920 x 960) 15 fps (2448 x 1920)

 PC interface
 USB3.0

 Image resolution
 960 x 720 1920 x 1440

 Frame rate
 25 fps

 PC interface
 USB3.0



Introductory model with high price-performance ratio STM7-CU

Image resolution Frame rate PC interface

DP22

1024 × 768 2048 × 1536 11.2 fps (max.) USB2.0



Measurement Support Software Place the Sample and Start to Measure-No Parallel Alignment Required

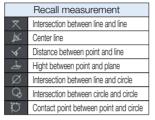
Direct Measurement

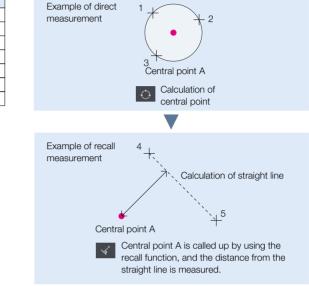
Measurements are made by receiving coordinates input via the STM7.

	Direct measurement Recall measurement
	Point
云	Line (angle)
0	Circle
$\langle \mathbf{Q} \rangle$	Rectangle
X	Midpoint
	Distance between point and point
Ŀ	Hight between point and point
	Plane
\bigcirc	Ellipse

Recall Measurement

Once measured and calculated, coordinat can be used again for subsequent measurements. This eliminates the need to carry out the same work twice, enabling a smoother and more efficient workflow.





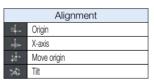
Virtual Point Measurement

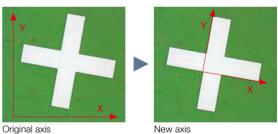
Intersections, central points, lengths, and a range of other measurements can be made by drawing straight lines and circles, which can then be set to remain as reference points on acquired sample images.

	Virtual point				
1.	Virtual point				
12	Move point				
1.	Rotate point				
++-	Point of symmetry in the X axis				
+	Point of symmetry in the Y axis				
÷	Point of symmetry in the origin				

Alignment Measurement

Both the origin and the X-axis are set with respect to the sample, allowing the sample to be measured even when it's not aligned with the stage.



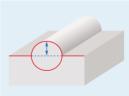


New axis

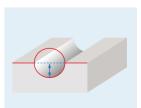
XZ Plane Measurement

Conventional measuring microscopes measure the XY plane directly from above. However, in response to user demands, Olympus has incorporated an XZ plane measurement function in the STM7-BSW to enable the measurement of crosssections as seen from the side. Now, measurements that used to be difficult are much easier-such as radius measurements for vertical sections of hemispherical objects, or measurement of the depths of grooves with curved bases compared to a reference line.

	XY measurement					
	AT measurement					
is.	Line (angle)					
<u></u>	Circle					
1	Distance between point and point					
×,	Intersection between line and line					
1×2	Center line					
\checkmark_z	Distance between point and line					
Distance between line and circle (upp						
٢	Distance between line and circle (lower)					



R measurement of a hemispherical sample



Height measurement of a groove from its base and the reference line

Measurement Support Software Record Repeated Measurement Procedures

Macro Registration

Frequently used alignment and other measurement procedures can be combined and assigned to a single macro button—eliminating the need to start from scratch each time the microscope is set up.

Replay Measurement

Measurements can be easily repeated based on a recorded workflow by simply inputting the movement of the stage and the coordinates in response to a software prompt. This function can be used to repeatedly carry out the same measurement on the same sample, or different versions of the same sample. Furthermore, if a set value and tolerance are set in the recorded workflow, the software can automatically identify when a measurement has failed.



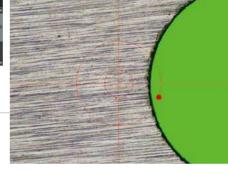


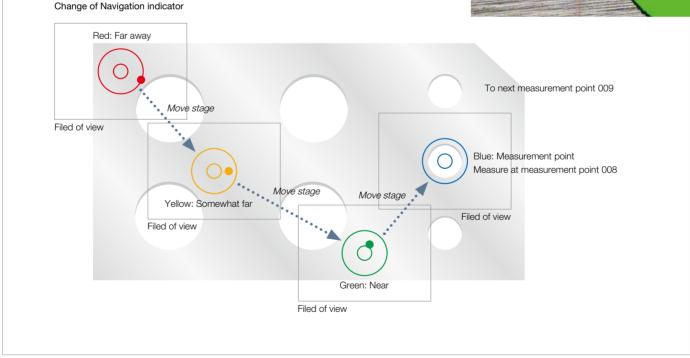
Fail/results sample

Measurement Point Navigation for Replay Measurement

This function displays the direction and distance to the next measurement point, thereby eliminating any confusion on the part of the operator. The function additionally eliminates the need to check the next measurement point on the diagram each time, speeding the operator's workflow through a series of repeated measurements.







Measurement Support Software Convenient Functions Help Eliminate Subjectivity in Measurement

Automatic Edge Detection

This function detects the edges of the sample and automatically acquires and measures its coordinates. As a result, operators no longer need to designate the coordinates and subjectivity is minimized. Automatic Edge Detection also features a timer function that enables coordinates to be acquired in a specified time and supports the use of a foot switch that enables the operator to focus on measurement operations without taking his or her hands off the stage handles.

Abnormal Point Elimination

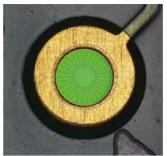
Metal burrs and other abnormal points can be excluded automatically during edge detection. This enables a consistent calculation of measured values, irrespective of the state of the sample. Points excluded as abnormal can also be displayed on the screen in different colors.

Illumination Control

The light intensity of the microscope can be maintained by accurate software control. Light intensity settings can also be saved when recording a workflow enabling measurements to be made under the same conditions during replay measurements or automatic edge detection.

Automatic Magnification Recognition (optional, with coded revolving nosepiece configuration only)

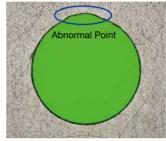
Through use of the coded revolving nosepiece, previously set calibration values are automatically recalled when changing the objective. In this way, the user can be confident that the proper scale is on display.



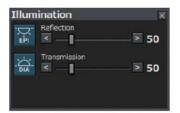


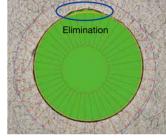
Automatic edge detection inside the circle

Multiple points automatic edge detection

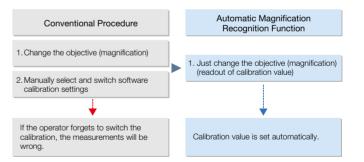


Sample with abnormal point





Abnormal point elimination



Measurement Support Software Customizable Report Generation

One-Click Report Generation

Measurement results can be output in Excel format with a single click, eliminating mistakes made during transcription. Images can also be pasted in along with the measurement results, enabling more efficient report generation.

Report sample

Multiple Image Alignment (MIA) (optional)

Tile multiple images to capture a single high-magnification, wide-area image. Because the images are tiled on the basis of coordinate data, the system is capable of producing highly reliable images.





Extend Focus Image (EFI) (optional)

The EFI function is effective for obtaining images that are well-focused throughout on samples with an uneven, complex surface shape. Generate a single image with focal points aligned in all positions. Simply process multiple images with different focal point positions while moving the Z-axis, or use the motorized model for automated image composition.

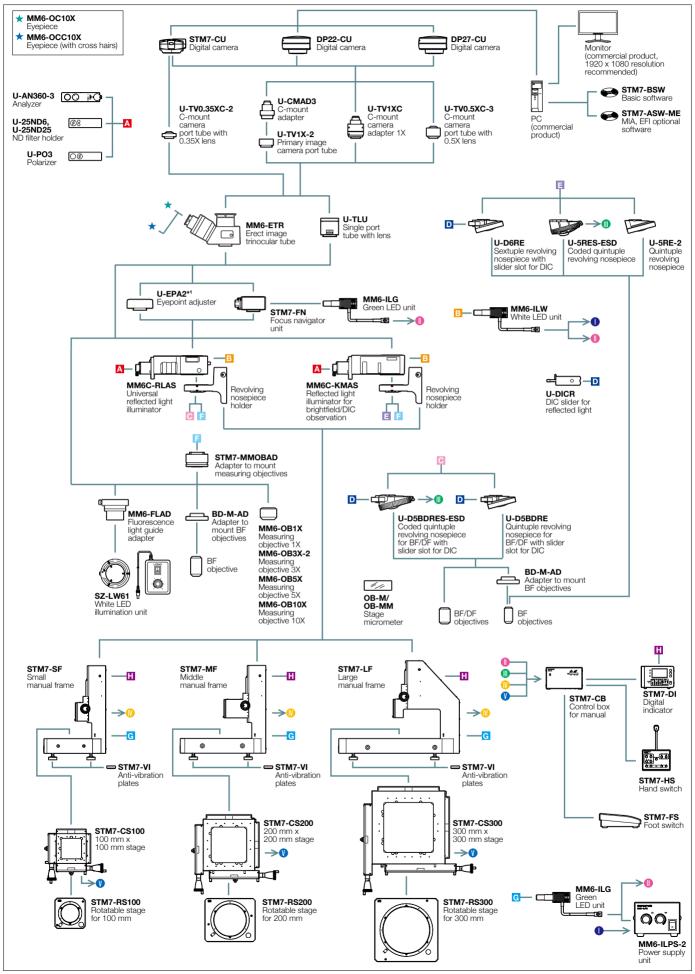
Five STM7 suggested configuration provide Highly Reliable Modular System Concept Never in This Simplicity

	-				
			Manual Models		
		STM7-SF	STM7-MF		
		Ĩ I	Ĩ.		
Stage (X x Y)		STM7-CS100	STM7-CS200		
		100 mm x 100 mm	200 mm x 200 mm		
Z-axis focus		Manual			
Observation method BF:Brightfield DF:Darkfield	Standard	BF	or BF / DF		
DIC:Differential interference contrast POL:Polarized light *For objectives, please refer to the specification table of Page 19-20.	Option	DIC POL			
Measurement objectives Brightfield					
Focus navigator STM7-FN					
Autofocus unit STM7-AF		_	_		
Measurement support software STM7-BSW					
Measurement support software (Multiple Image Alignment /MIA and xtend Focus STM7-ASW-ME	Image/EFI)				

□: Option

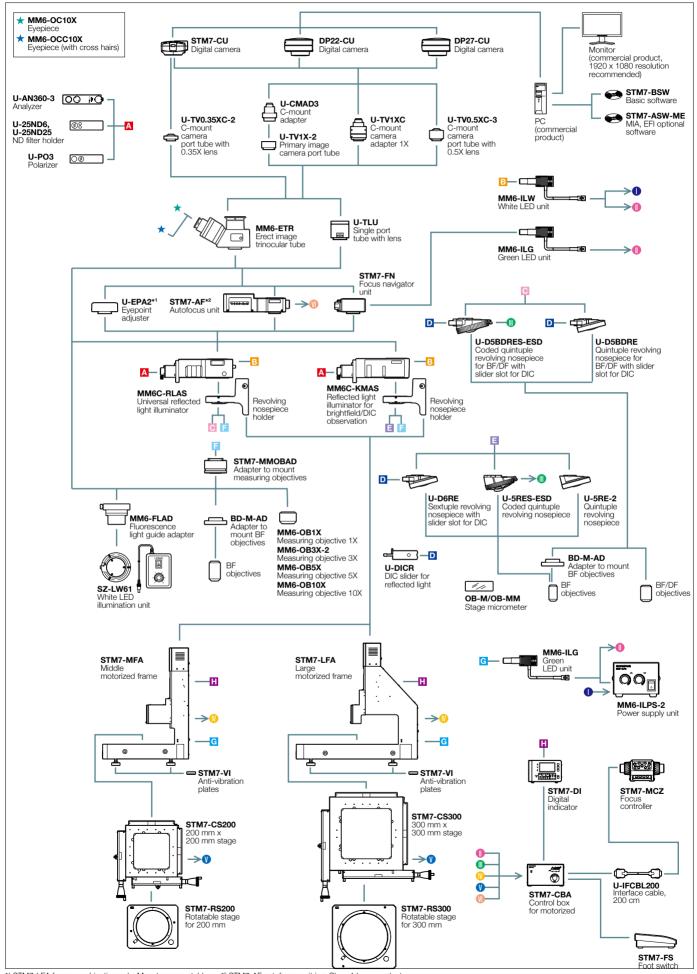
	Motorize	ed Models
STM7-LF	STM7-MFA	STM7-LFA
STM7-CS300	STM7-CS200	STM7-CS300
Manual	Moto	prized
BF or BF / DF	BF	or BF / DF
DIC POL	DIC	POL
]
]
_]
]
]

STM7-F System Diagram (Manual Model)



*1 STM7-LF frame combination only. Max. two mountable.

STM7-F System Diagram (Motorized Model)



*1 STM7-LFA frame combination only. Max. two mountable. *2 STM7-AF autofocus unit is a Class 1 laser product

Specifications

STM7 SPECIFICATIONS MANUAL MODEL

			Small stage	Midsize stage	Large stage			
Microscope body			STM7-SF	STM7-MF	STM7-LF			
		Vertical movement range	175 mm		145 mm			
	Focus	Maximum measurable height	120 mm (with measurement objective 175 mm (with metallurgical objective)		90 mm (with measurement objective 145 mm (with metallurgical objective			
		Z-axis measurement resolution	0.1 µm					
		Z-axis drive method	Manual coaxial fine/coarse focusing k	nobs				
	Illumination	LED illumination	White: for reflected light illumination, g	reen: for transmitted light illumination				
Observatio	on tube		MM6-ETR-1-5 Erect image trinocular	tube (100: 0/0: 100)				
Eyepiece ((F.N.22)		MM6-OCC10X (with cross hairs), MN	6-OC10X				
		1	1					
			MM6C-KMAS Illumination					
		BF (Bright field)	U-5RES-ESD Nosepiece					
			MPLFL5X, 10X, LMPLFLN20X, 50X, Metallurgical objectives	100X				
Objectives	5		MM6C-RLAS Illumination					
		BF (Brightfiels) /DF (Darkfield)	U-5BDRES-ESD Nosepiece					
			LMPLFLN5XBD, 10XBD, 20XBD, 50XBD, 100XBD Metallurgical objectives					
		White color (reflected)	MM6-ILW					
LED unit	LED unit Green color (Tranmitted)		MM6-ILG					
Stage			STM7-CS100	STM7-CS200	STM7-CS300			
	Measuring range		X-axis 100 mm, Y-axis 100 mm	X-axis 200 mm, Y-axis 200 mm	X-axis 300 mm, Y-axis 300 mm			
		ent accuracy	(3 + 2L/100) μm	(3 + 4L/200) μm	(3 + 6L/300) µm			
	Accuracy assurance weight		6 kg	10 kg	15 kg			
Counter			STM7-DI	- I -				
		Number of axes	Three					
		unit	µm/mm/inch/mil					
		Minimum resolution	0.1 µm					
		Control box	STM7-CB					
		Hand switch	STM7-HS					
		Focus controller	-					
		Interface cable	-					
Anti-vibration plates			- STM7-VI					
Power cat	ble		UYCP					
Dimensior	ns (W x D x H)		466 x 583 x 651 mm	606 x 762 x 651 mm	804 x 1024 x 686 mm			
Weight			84 Kg	152 Kg	277 Kg			
Power consumption			100-120/220-240 V ~ 50/60 Hz 0.3 A/0.2 A	100-120/220-240 V ~ 50/60 Hz 0.3 A/0.2 A	100-120/220-240 V ~ 50/60 Hz 0.3 A/0.2 A			

*1 When using the large frame STM7-LF/STM7-LFA, a specimen whose height is 100 mm or less can be placed at the position backward from the light axis by 180 mm or more.

OBJECTIVES WORKING DISTANCE

Objective		Magnifications	1X	3 X	5 X	10 X	20 X	50 X	100 X
Measuring objectives	MM6-OB series		59.6	76.8	65.4	50.5	-	-	-
	MPLFLN series	Brightfield	-	-	20.0	11.0	3.1	1.0	1.0
	LMPLFLN series	Long working distance	-	-	22.5	21.0	12.0	10.6	3.4
Metallurgical objectives	MPLFLN-BD series	Brightfield/darkfield	-	-	12.0		1.0		
	LMPLFLN-BD series	Brightfield/darkfield, long working distance	-	-	15.0	10.0	12.0	10.6	3.3

STM7-BSW SYSTEM REQUIREMENTS

Item	
CPU	Intel Core i3 Processors 3 GHz or more
Memory	4 GB or more
HD available space	100 GB or more hard disk space for installation SSD hard disk is recommended for high speed image acquisition
Graphic card	Graphic card available for resolution 1980 x 1080 and 32bit color
Drive	DVD Drive
PC input device	2-button mouse (3-button mouse with a wheel is recommended.) Keyboard
Operating system	Microsoft Windows 10 Pro (32bit/64bit)
Web browser	Internet Explorer 8.0

* Microsoft Office 2010/2013/2016 (32bit) are also supported.

STM7 SPECIFICATIONS MOTORIZED MODEL

			Midsize stage	Large stage		
Microscope body			STM7-MFA	STM7-LFA		
		Vertical movement range	175 mm	145 mm		
		Maximum measurable height	120 mm (with measurement objective) 175 mm (with metallurgical objective)	90 mm (with measurement objective) 145 mm (with metallurgical objective) *1		
	Focus	Z-axis measurement resolution	0.1 µm			
	Z-axis drive method		Motorized ● FOCUS button: Coarse movement speed 8mm/s (max.) ● Fine/coarse focusing knob: Fine focusing speed can be selected from 4 values (800 μm, 400 μm, 100 μm, 50 μm)			
	Illumination	LED illumination	White: for reflected light illumination, green: for transm	nitted light illumination		
Observati	ion tube		MM6-ETR-1-5 Erect image trinocular tube (100: 0/0: 100)			
Eyepiece	(F.N.22)		MM6-OCC10X (with cross hairs), MM6-OC10X			
			MM6C-KMAS Illumination			
		BF (Bright field)	U-5RES-ESD Nosepiece			
Ohia-th			MPLFL5X, 10X, LMPLFLN20X, 50X, 100X Metallurgical objectives			
Objective	15		MM6C-RLAS Ilumination			
		BF (Brightfiels) /DF (Darkfield)	U-5BDRES-ESD Nosepiece			
			LMPLFLN5XBD, 10XBD, 20XBD, 50XBD, 100XBD Metallurgical objectives			
		White color (reflected)	MM6-ILW			
LED unit		Green color (Tranmitted)	MM6-ILG			
Stage			STM7-CS200	STM7-CS300		
5	Measuring	range	X-axis 200 mm, Y-axis 200 mm	X-axis 300 mm, Y-axis 300 mm		
		ent accuracy	(3 + 4L/200) μm	(3 + 6L/300) μm		
		assurance weight	10 kg	15 kg		
Counter			STM7-DI			
		Number of axes	Three			
		unit	µm/mm/inch/mil			
		Minimum resolution	0.1 μm			
		Control box	STM7-CBA			
		Hand switch	_			
		Focus controller	STM7-MCZ			
		Interface cable	U-IFCBL200	U-IFCBL200		
Anti-vibra	tion plates		STM7-VI			
Power cable			UYCP			
Power ca	Dimensions (W x D x H)		606 x 762 x 811 mm	804 x 1024 x 844 mm		
			159 Kg	284 Kg		

	Objectives	Measurement objectives	MM6-OB series (1 X/3 X/5 X /10 X)		For 100 x 100 mm	STM7-RS100
	E	Focus navigator unit	STM7-FN	Rotatable stage	For 200 x 200 mm	STM7-RS200
	Focus navigator	Green LED unit	MM6-ILG		For 300 x 300 mm	STM7-RS300
	Autofocus	Autofocus unit	STM7-AF		ND filte (Transmittance 6 %)	U-25ND6
	DIC	U-DICR DIC slider for reflected light	U-DICR		ND filte (Transmittance 25 %)	U-ND25
tion	Software/Camera	Measurement Support Software	STM7-BSW	DIO	DIC/Polarizer	U-PO3
lion	Camera	Digital camera Low	STM7-CU	DIC	DIC/Analyzer	U-AN360-3
		Digital camera Middle	DP22-CU	Software	MIA, EFI optional software	STM7-ASW-ME
		Digital camera High	DP29-CU	Foot switch	Foot switch	
	TV adapter	C-mount camera port tube with 0.5X lens	U-TV0.5XC-3-8	Power supply unit		MM6-ILPS-2
		C-mount camera port tube with 0.35X lens	U-TV0.35XC-2-7	Stage micrometer		OB-M/OB-MM

Accessories



STM7-AF Autofocus

The autofocus unit for the STM7 series that delivers excellent reproducibility and rapid focus.



STM7-FN Focus navigator

The focus navigator delivers highly reproducible height measurement by projecting a pattern within the field of view and identifying vertical deviations.



U-DICR DIC slider The DIC slider provides topographic information about the sample with options to maximize contrast or resolution.



Coded Revolving Nosepiece

Combining a coded revolving nosepiece with a digital camera lets you display the objective magnification on-screen during observation and allows you to record that magnification. This convenient feature allows information on your sample and the objective's magnification to be recorded at the same time when recording a sample.



STM7-FS/ Foot Switch Enables hands-free transmission of data,

allowing operators to complete measurement without taking hands off the X and Y handles.



SZ-LW61/ White LED Illumination Unit This light-weight, space-saving design model provides a long operating life and low power consumption. The cost-effective LED illumination unit is also free from the flickering and brightness fluctuation.

Rotatable Stage

Enables easy parallel alignment of sample.



STM7-RS100 for STM7-CS100 100 mm x 100 mm stage



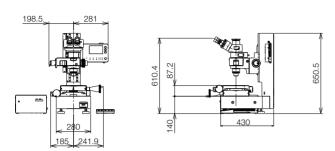
STM7-RS200 for STM7-CS200 200 mm x 200 mm stage



STM7-RS300 for STM7-CS300 300 mm x 300 mm stage

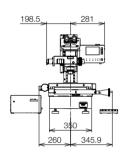
Dimensions

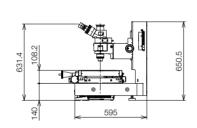
STM7-SF



Unit: mm

STM7-MF

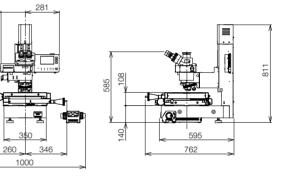




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STM7-MFA

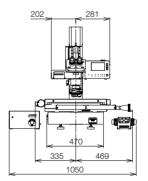
202

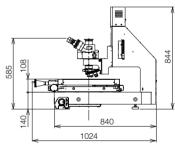


Unit: mm

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STM7-LFA





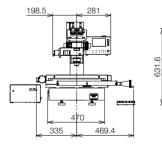
Unit: mm

686

840



Unit: mm



108.2

140

Unit: mm

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- OLYMPUS CORPORATION is ISO9001 certified.

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