

Measuring Microscope

STM7 Series

A Microscope that Measures Up to Individual Needs

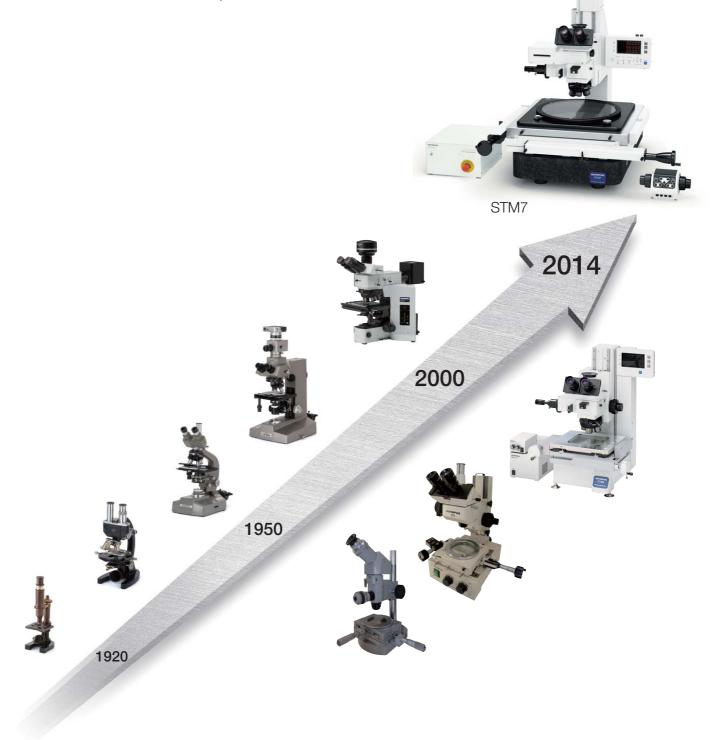


The Highly Reliable STM7 Measuring Microscope— Backed by a Century of Olympus Technology

The new STM7 measuring microscope series offers dependable quality from generations of Olympus' technology, and experience gained through more than a century of microscope development with more than 50 years of measuring microscope experience.

- Vivid imaging of extremely minute samples enabled by outstanding optical technology.
- Accurate sample measurement delivered through advanced measuring technology.
- Simpler and more accurate measurements realized with autofocus and focus navigator.
- Reliable and dependable measurements provided by a comprehensive traceability system.

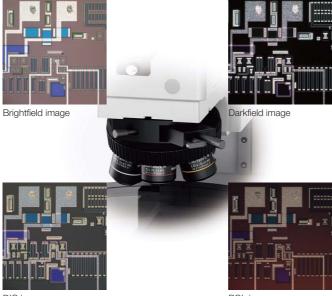
For all these reasons and more, Olympus' measuring microscopes have continued to be chosen over the years.



Accurate Measurements through the Integration of an Optical Microscope and Advanced Measurement Capability

Observation Performance Refined through Years of Microscope Development

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.

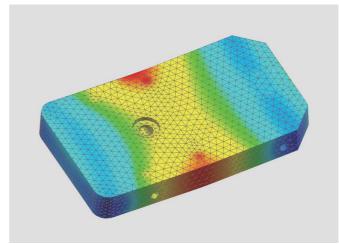


DIC image

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Measurement Reliability Enhanced with a Stage-Mounting Plate Crafted from Stone

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.

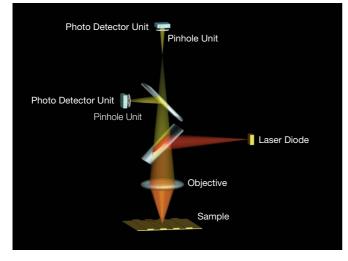


STM7-LF FEM analysis

Continuing to Provide User-friendly, High-Precision, 3-axis Measurement as a Pioneer of Height Measurement

As modern manufacturing technology becomes increasingly miniaturized and precise, highly accurate measurements are even more essential—not only along the horizontal 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.

Reflective Active, Confocal Autofocus System Optical Path



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.

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.



Wide Coverage

Compatible with a range of measurement and observation needs

Operability

Simpler, more efficient operation

Height Measurement

Highly accurate measurement of samples with irregular surfaces

Measurement Support System

Enables simple, highly accurate measurements of complex forms

Stage Selection (in mm) 50 x 50, 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

STM7 Lineups 3-Axis Measurements with a 0.1-µm Readout in Every Model

Manual Z-axis Focusing Models

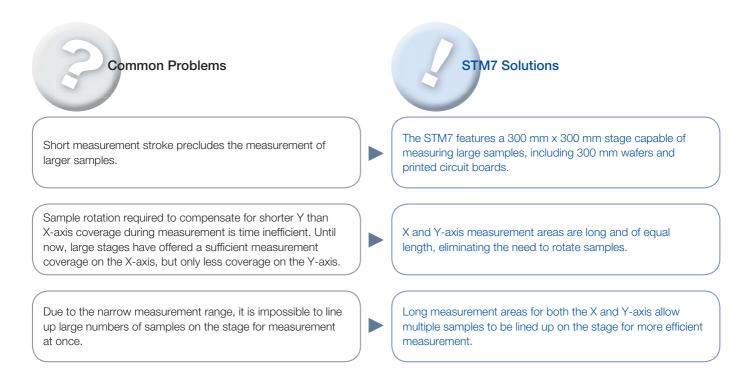


Motorized Z-axis Focusing Models



Wide Coverage: Stage

Offering Stages to Fit the Sample Size at Hand, while the Square Stroke Acts to Resolve Inconvenient Measurement-Related Issues



Maximum Measurement Stroke 300 mm × 300 mm

Four types of stages are available, each with a unique square measurement stroke (choose from 50 mm x 50 mm, 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.



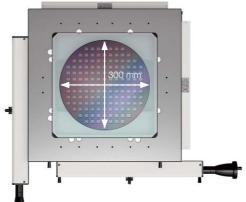
STM7-CS50 50 mm x 50 mm



STM7-CS100 100 mm x 100 mm

The Square Stroke Resolves Inconvenience during Measurement Operation

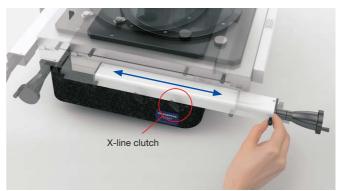
The 300 mm square length stage enables the same measurement stroke to apply to both the X and Y-axes, which means it can be used to measure large samples, such as 300 mm wafers and printed circuit boards without changing their orientation.





Clutch Control Enables Rapid Switching 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

Extend the possibilities of Observations With the Unique Adapter that Broadens the Range of Magnifications for Observation and the Range of Working Distances



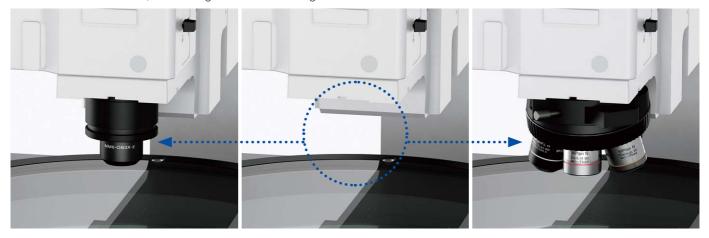
Most conventional measuring microscopes only accept a measuring objective or metallurgical objective, and so are unable to meet the requirements for a wide variety of observations.



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.

Use the Same Microscope for Both 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, no matter 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.

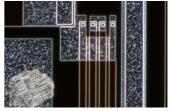


Metallurgical Objectives

Metallurgical objectives enable high-magnification, highresolution observation capability comparable to that of optical microscopes. What's more, these objectives can be used not only for brightfield, but also for darkfield and DIC observation.



Brightfield image



Darkfield image

Wide Coverage: Frame Manual and Motorized Focusing Model Options

The STM7 Line Includes both Manual and Motorized Focus Options

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

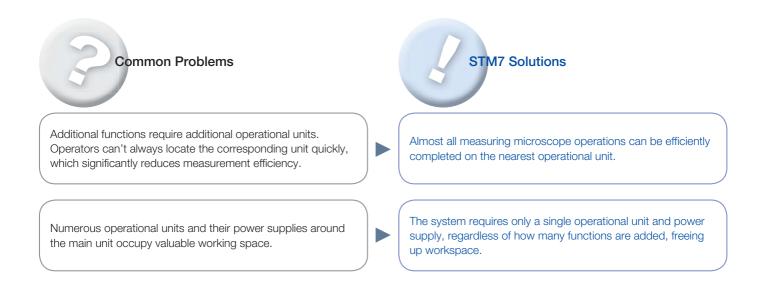
Manual Z-axis focus models offer excellent cost performance with familiar handle operation for rapid vertical movement that offers convenience for users who needs to measure samples with variety of heights.



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: Measuring Microscope Operation A Revolutionary Control Unit Refines Measuring Microscope 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.

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



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.

Close Control through a Quantitative Digital Display of Light Intensity Values

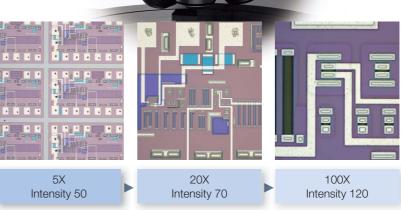
The STM7 series provides a quantitative digital display of light intensity—enabling observations to always be made under consistent illumination conditions.

Light Intensity Manager Eliminates the Need for Manual Adjustment

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.



Digital display shows quantitative light intensity



Operability: Digital Read Out

A Detachable Digital Read Out for Preferred Location Enables Swift, Convenient Checking of Measurement Results and Equipment Status



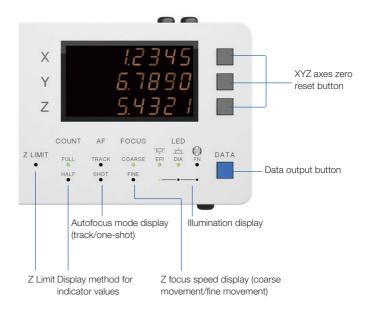
The need to check the operation status of equipment, such as illumination, or measured values on individual units makes overall operation cumbersome.



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

Digital Indicator Enables the Current Operation Status to be Verified Visually

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 Allows for Individual Preference and Placement

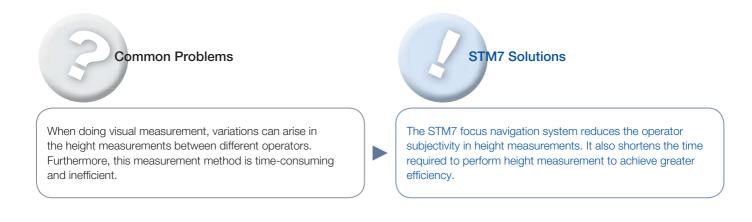
Whether attached to the frame or a desk, the placement of the detachable digital readout is up to the individual user. While standing to take measurements, it can be placed on the side of the frame at almost the same height as the site of observation for an exceptional and easy view. When operating from 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

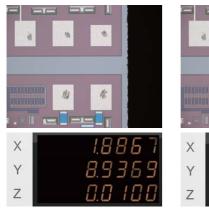
Digital readout placed on a desk

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



Simple and Highly-Precise Focusing System with Superior Repeatability

The 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.

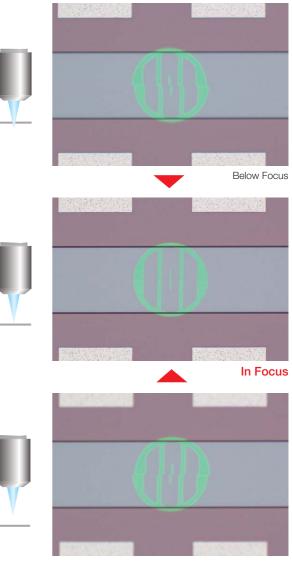


Visual Height Measurement



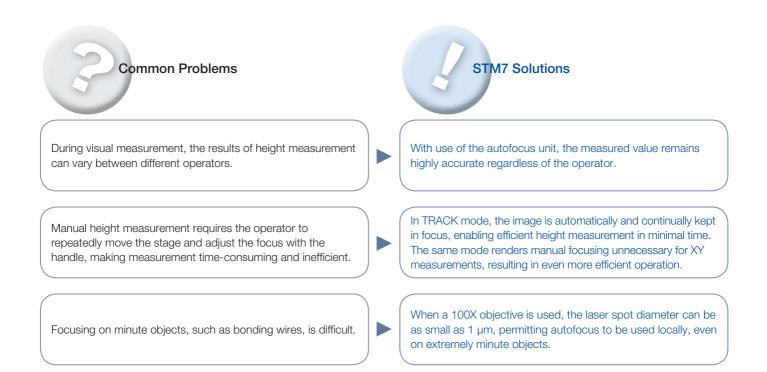
Operator subjectivity at the position at which measurements are taken can introduce differences in measurement results.

Focus Navigator



Height measurement: Autofocus Unit

Autofocus Advantage for Fast and Highly Accurate Height Measurement



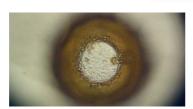
Quick and Accurate Focusing and Measurement Free from Operator Subjectivity

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.

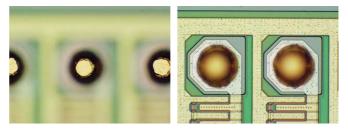


Dedicated Autofocus Unit: Outstanding Reproducibility and Focusing Speed

The STM7 dedicated 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

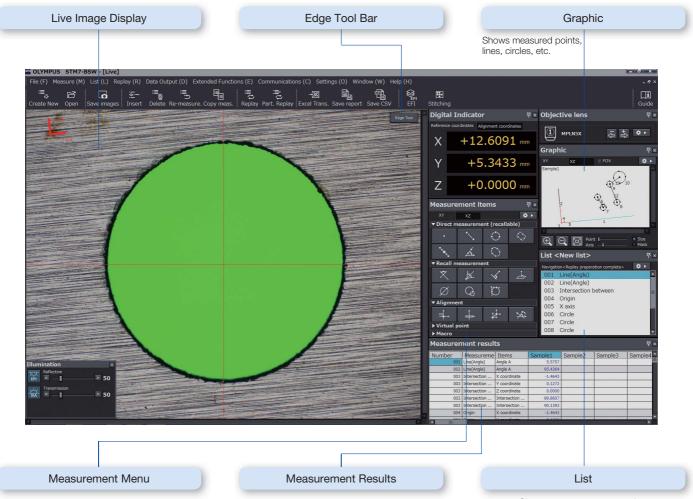
The featured TRACK Mode provides autofocus that tracks the peaks and troughs of the sample, even if the stage is moved, keeping the image continually in focus. This advancement greatly improves the efficiency of Z-axis measurements by enabling observations to be made without taking your hands off the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



Measurement Support System More Accurate, Faster, and Simpler Measurement of Objects with Complex Shapes

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



Shows measurement procedure

Capture Clear, Pin-Sharp Images for Highly Accurate Measurement with a Complete Lineup of Cameras

High performance model with high speed live display

DP27 -----

 Image resolution
 1920 × 960 2448 × 1920

 Frame rate
 30 fps (1920 15 fps (2448)

 PC interface
 USB3.0

1920 × 960 2448 × 1920 30 fps (1920 × 960) 15 fps (2448 × 1920) USB3.0

OLYMPUS Dra

DP22 —— Image resolution

 Image resolution
 960 × 720 1920 × 1440

 Frame rate
 25 fps

 PC interface
 USB3.0





Introductory model with high price-performance ratio

STM7-CU —

Image resolution 10 20 Frame rate 11 PC interface US

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





STM7 with Measurement Support System

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

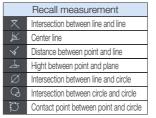
Direct Measurement

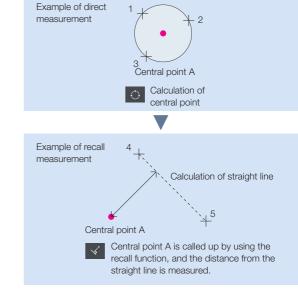
Measurements are made by receiving coordinates input via STM7.

Direct measurement Recall measurement				
	Point			
يك.	Line (angle)			
\odot	Circle			
$\langle \rangle$	Rectangle			
\sim	Midpoint			
	Distance between point and point			
Ŀ	Hight between point and point			
	Plane			
\bigcirc	Ellipse			

Recall Measurement

Once measured and calculated, coordinates 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.





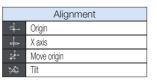
Virtual Point Measurement

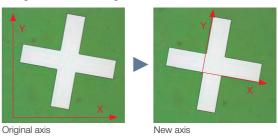
Intersections, central points, lengths, and a range of other measurements can be made by drawing straight lines and circles, which can then be set to remain as reference points on acquired sample images.

	Virtual point			
<u>†-₽</u>	└→ Virtual point			
12₹	Move point			
<u>†</u> -•*•	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.

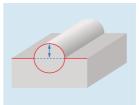




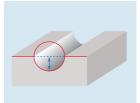
XZ Plane Measurement

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					
يخ.	Line (angle)					
\bigcirc_{z}	Circle					
z	Distance between point and point					
×,	Intersection between line and line					
×.	Center line					
√z	Distance between point and line					
Ġ	Distance between line and circle (upper)					
Ð	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 the Repeated Measurement Procedure

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.



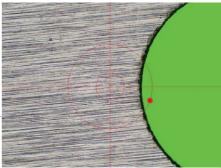


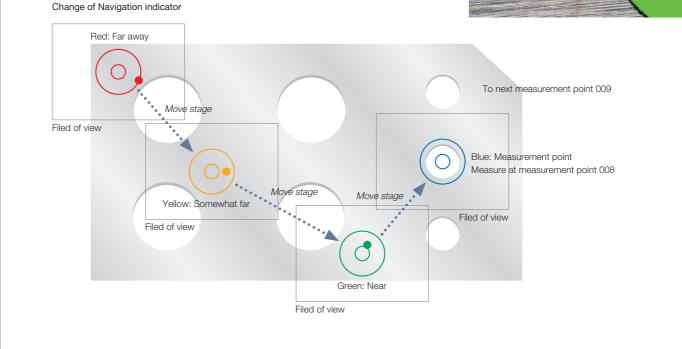
Fail/results sample

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 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.



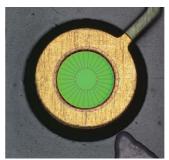
Metal burrs and other abnormal points can be excluded automatically during edge detection. This enables a consistent calculation of measured values, irrespective of the state of the sample. Points excluded as abnormal can also be displayed on the screen in different colors.

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 for replay measurement, 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 always be confident that the proper scale is on display.





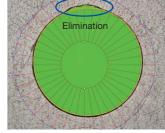
Automatic edge detection inside the circle



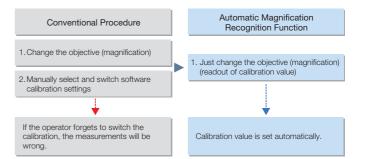


Sample with abnormal point





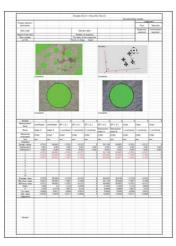
Abnormal point elimination



Measurement Support Software Customizable Report Generation

One-Click Report Generation

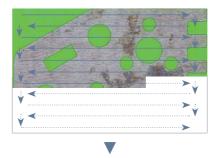
Measurement results can be output in Excel format with a single click, eliminating mistakes made during transcription. Images can also be pasted in along with the measurement results, enabling more efficient report generation.



Report sample

Multiple Image Alignment (MIA) optional

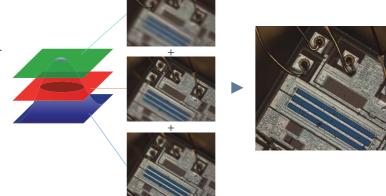
Tile multiple images to capture a single high-magnification, wide-area image. Because the images are tiled on the basis of coordinate data, the system is capable of producing highly reliable images.





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.



Accessories



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.



MM6-EMO/ Erect Image Monocular Tube Monocular tube for erect images. Can be used in combination with MM6-OCC10X

(eyepiece with cross hairs).



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.



SZX2-ILR66+SZX-RHS/ LED Ring Illuminator+Manual Control Unit

SZX-RHS manual control unit enables independent illumination of four-segments of the SZX2-ILR66 reflected LED ring illuminator, which provides clear images with high color temperature. The optimal illumination can be selected from 13 patterns.

Rotatable Stage

Enables easy parallel alignment of sample.



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

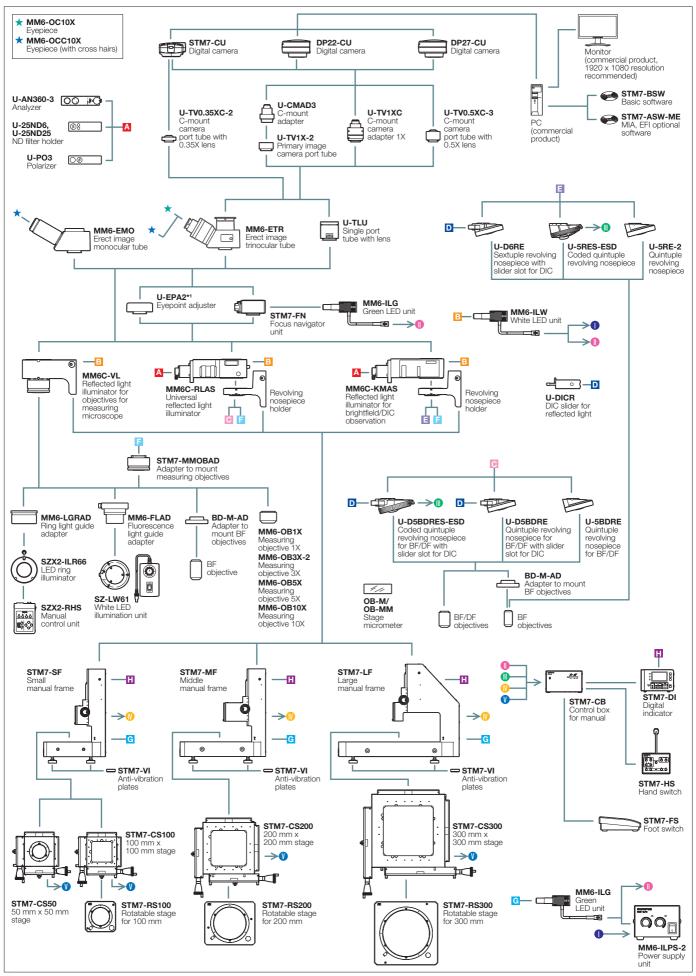


STM7-RS200 for STM7-CS200 200 mm x 200 mm stage

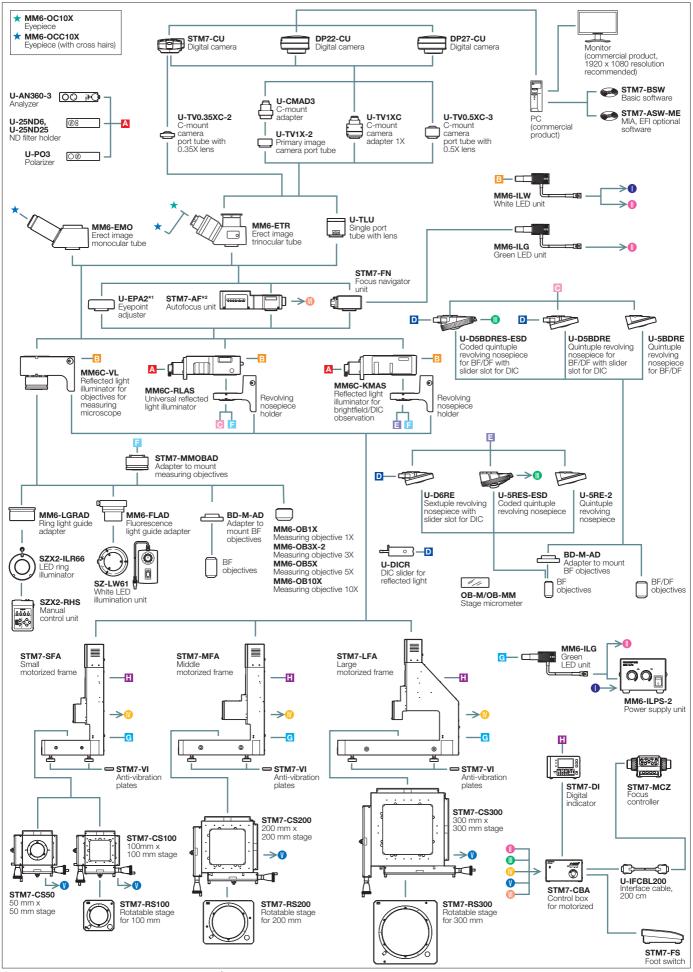


STM7-RS300 for STM7-CS300 300 mm x 300 mm stage

STM7-F System Diagram



STM7-FA System Diagram



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

Specifications

STM7 SPECIFICATIONS

			Small manual frame STM7-SF	Small motorized frame STM7-SFA	Middle manual frame STM7-MF	Middle motorized frame STM7-MFA	Large manual frame STM7-LF	Large motorized frame STM7-LFA			
		Vertical movement range	175 mm		145 mm						
		Maximum measurable height	120 mm (with measu 175 mm (with metall	irement objective), urgical objective)	90 mm (with measurement objective), 145 mm* ¹ (with metallurgical objective)						
		Z-axis measurement resolution	0.1 μm								
				Motorized		Motorized		Motorized			
Microscope body	Focus	Z-axis drive method	Manual coaxial fine/coarse focusing knobs	 FOCUS button: Coarse movement speed 8 mm/s (max.) Fine/coarse focusing knob: Fine focusing speed can be selected from 4 values (800 µm, 400 µm, 100 µm, 50 µm) 	Manual coaxial fine/coarse focusing knobs	•FOCUS button: Coarse movement speed 8 mm/s (max.)	Manual coaxial fine/coarse focusing knobs	•FOCUS button: Coarse movement speed 8 mm/s (max.)			
						•Fine/coarse focusing knob: Fine focusing speed can be selected from 4 values (800 µm, 400 µm, 100 µm, 50 µm)		•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 li	ght illumination, green:							
Observation	tube		Erect image monocular tube, erect image trinocular tube (100:0/0:100)								
Objective For measuring microscope For metallurgical microscope			MM6-OB series								
			MPLFLN series, LMPLFLN series, MPLFLN-BD series, LMPLFLN-BD series								
Eyepiece			MM6-OCC10X (with	cross hairs, FN 22), M	M6-OC10X (FN 22)						
Stage		Measuring range	STM7-CS50: X-axis 50 mm, Y- STM7-CS100: X-axis 100 mm, Y		STM7-CS200: X-axis 200 mm, Y	/-axis 200 mm	STM7-CS300: X-axis 300 mm, Y-axis 300 mm				
		Measurement accuracy (L: measuring length)	STM7-CS50: (3+L/50)μ m STM7-CS100: (3+2L/100) μm		(3+4L/200) µm		(3+6L/300) μm				
		Accuracy assurance weight	STM7-CS50: 5 kg STM7-CS100: 6 kg		10 kg		15 kg				
Counter display		Number of axes	Three								
		Unit	mm/µm/inch/mil								
		Minimum resolution	0.1 µm								
Dimensions (W x D x H) (mm)		466 x 583 x 651	466 x 583 x 811	606 x 762 x 651	606 x 762 x 811	804 x 1024 x 686	804 x 1024 x 844				
Weight			84 kg (Approx.)	92 kg (Approx.)	152 kg (Approx.)	159 kg (Approx.)	277 kg (Approx.)	284 kg (Approx.)			
Power consumption			100-120/220- 240V ~ 50/60Hz 0.3A/0.2A	100-120/220- 240V ~ 50/60Hz 0.6A/0.35A	100-120/220- 240V ~ 50/60Hz 0.3A/0.2A	100-120/220- 240V ~ 50/60Hz 0.6A/0.35A	100-120/220- 240V ~ 50/60Hz 0.3A/0.2A	100-120/220- 240V ~ 50/60Hz 0.6A/0.35A			

*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 Magnification				зх	5X	10X	20X	50X	100X
Measuring objectives	ing 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	6.5	3.0	1.0	1.0
	LMPLFLN-BD series	Brightfield/darkfield, long working distance	_	_	15.0	10.0	12.0	10.6	3.3

STM7-BSW SYSTEM REQUIREMENTS

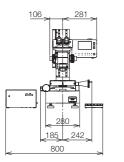
Item	System Configurations			
CPU	Intel Core i3 Processors 3 GHz or more			
Memory	4 GB or more			
HD available space	100 GB or more hard disk space for installation SSD hard disk is recommended for high speed image acquisition			
Graphic card	Graphic card available for resolution 1980x1080 and 32bit 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) Microsoft .NET Framework 3.5			
Web browser	Internet Explorer 8.0			

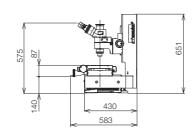
Microsoft Office 2010/2013/2016 are also supported.

Dimensions

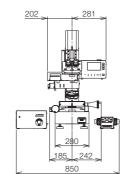
STM7-SF

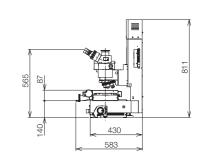
STM7-SFA





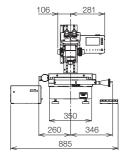
Unit: mm

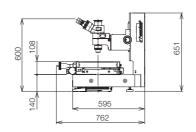




Unit: mm

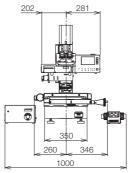
STM7-MF

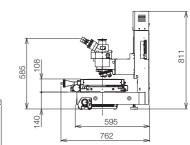




Unit: mm

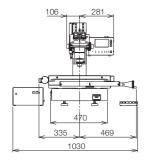
STM7-MFA

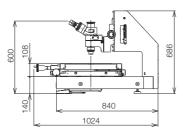




Unit: mm

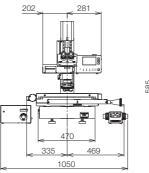
STM7-LF

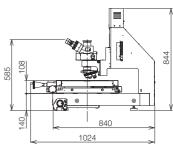




Unit: mm

STM7-LFA





Unit: mm

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