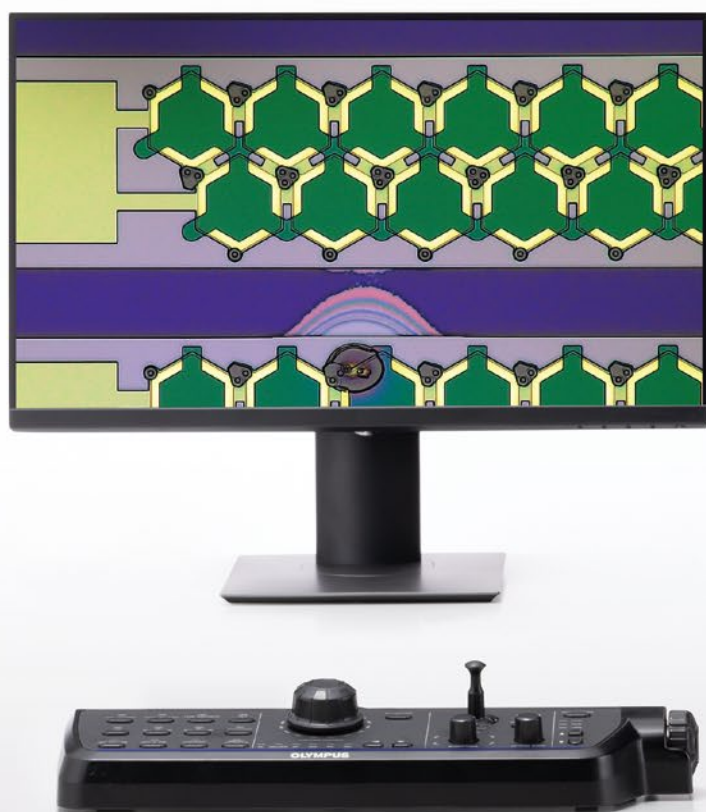


Powerful Analysis, Dynamic Imaging



Intelligent Innovation

Macro to Micro

Large selection of lenses to find the best magnification, resolution, and working distance for your sample

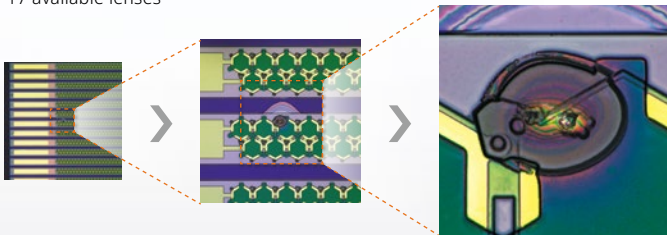
- 27X to 9637X magnification
- Accommodates larger samples with an up to 66 mm (2.6 in.) working distance

Free angle observation system

- Oblique observation ($\pm 90^\circ$)
- XY motorized stage with rotation ($\pm 90^\circ$)



17 available lenses



Be Confident in Your Results with Guaranteed Accuracy and Precision

Precise measurements

- Eliminate the image conversion effect for accurate measurements with a telecentric optical system

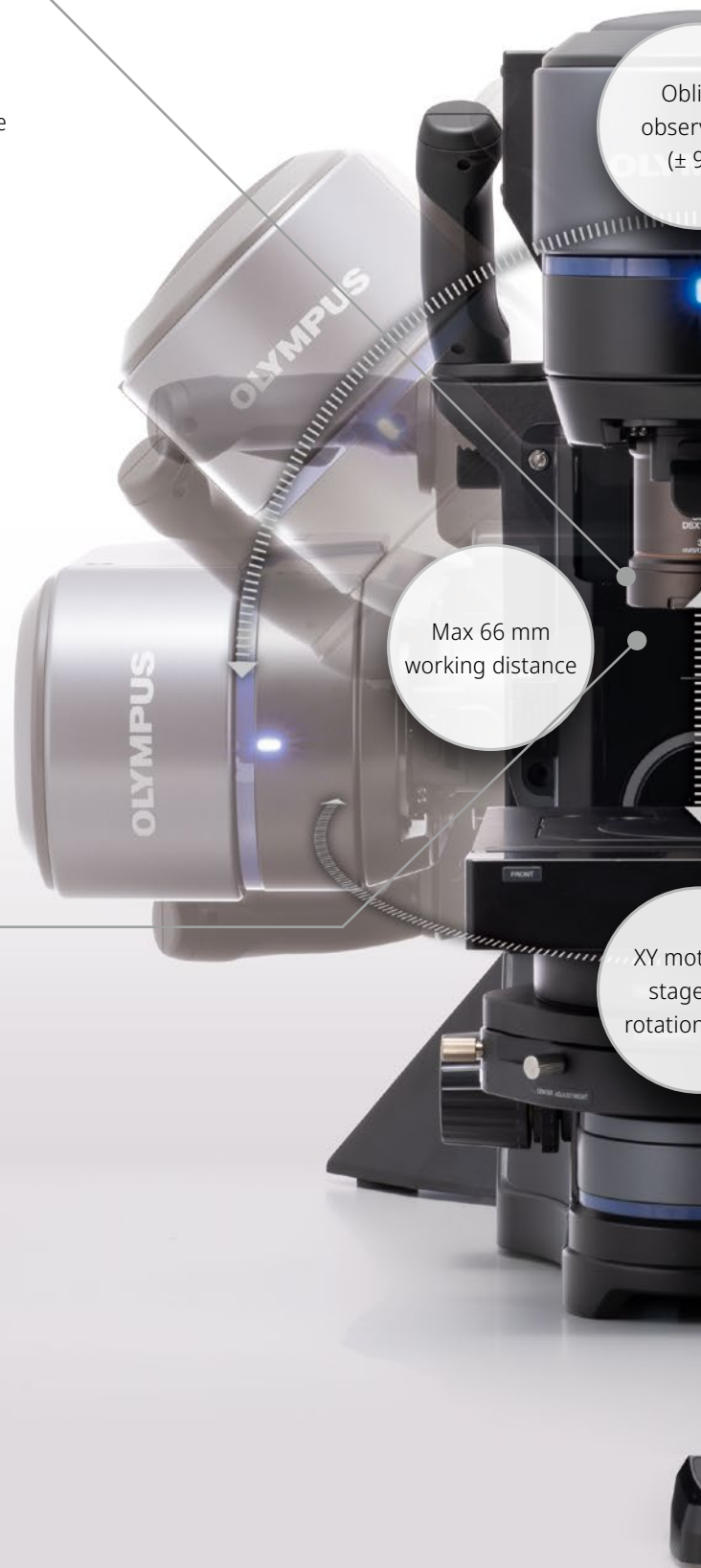
Accuracy and repeatability guaranteed at all magnifications

- Acquire reliable measurement results



Reliable, accurate measurements

*To issue certificates, calibration work must be undertaken by an Evident dedicated service technician.





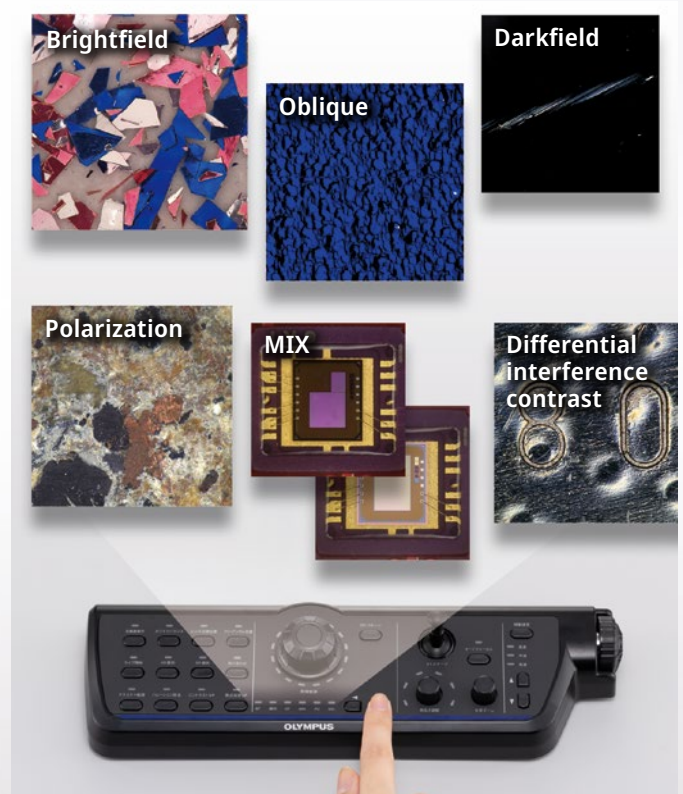
Multiple Observations with a Single Click

Instant switching saves time

- Quickly change objectives
- Switch observation methods by pushing a button

All observation methods available at all magnifications

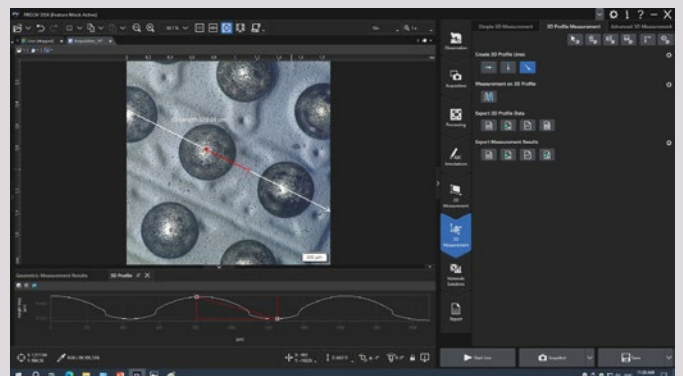
- Six observation functions are built into the optical head



Switching between observation methods is as easy as pushing of a button

Advanced Measurements Are Fast and Easy to Obtain

Unified software available in 10 languages for most of the operations with images, including 2D and 3D measurements, large image acquisition with no size limitations, best image acquisition and Material Solutions.



PRECiv DSX - Dedicated PRECiv Package for DSX1000

Remote console makes the system easy to control

Specifications

Main Unit Specifications

		DSX10-SZH	DSX10-UZH
Optical system	Optical system	Telecentric optical system	
	Zoom ratio	10X (motorized)	
	Zoom magnification method	Motorized	
	Calibration	Automatic	
	Lens attachment	Quick-switch, coded lens attachments automatically update magnification and visual field information	
	Maximum total magnification (on a 27-inch monitor monitor, 1:1 display, at 100% image magnification)	9637X	
	Working distance (W.D)	66.1 mm - 0.35 mm	
	Accuracy and repeatability (X-Y plane)	Accuracy of magnification: 3%*1 Repeatability of magnification: $\pm 2\% = 3\sigma n - 1$	
	Repeatability (Z axis)	Repeatability (height): $\sigma n - 1 \leq 1 \mu m$ *2	
Camera	Image sensor	1 / 1.2 inch, 2.35 million pixel color CMOS	
	Cooling	Peltier cooling	
	Frame rate	60 fps (maximum)	
	Low	960×600 (16:10)	
	Medium	1600×1200 (4:3) / 1920×1080 (16:9) / 1920×1200 (16:10) / 1200×1200 (1:1)	
	High (pixel shift mode)	2880×1800 (16:10)	
	Super high (pixel shift mode)	5760×3600 (16:10)	
	3CMOS mode (High quality)	Not available	Available (high and ultra high mode only)
Illumination	Color light source	LED	
	Lifetime	60,000 h (design value)	
Observation	BF (brightfield)	Standard	
	OBQ (oblique)	Standard	
	DF (darkfield)	Standard LED ring divided into four divisions	
	MIX (brightfield+darkfield)	Standard Simultaneous observation of BF + DF	
	PO (polarization)	Standard	
	DIC (differential interference)	Not available	Standard
	Contrast up	Standard	
	Depth of focus up function	Not available	Standard
	Transmitted lighting	Standard*3	
Focus	Focusing	Motorized	
	Stroke	101 mm (motorized)	

*1 Calibration by Evident or dealer service technician necessary. *2 When used 20X or higher objective. *3 The optional DSX10-ILT is required.

Objective		DSX10-SXLOB	DSX10-XLOB	UIS 2
Objective lens	Maximum sample height	50 mm (2 in.)	115 mm (4.5 in.)	145 mm (5.7 in.)
	Maximum sample height (free angle observation)	50 mm (2 in.)		
	Parfocal distance	140 mm (5.5 in.)	75 mm (3 in.)	45 mm (1.8 in.)
	Lens attachment	Integrated with lens	Available	
	Total magnification (on a 27-inch monitor, 1:1 display, at 100% image magnification)	27–1927x	58–7710x	34 ⁴ –9637x
	Actual F.O.V. (µm)	19,200 µm – 270 µm	9,100 µm – 70 µm	17,100 µm – 50 µm
Adaptor	Diffusion adaptor (optional)	Available	Not available	
	Eliminate reflection adaptor (optional)	Available	Not available	
Lens attachment	Number of objectives that can be attached	Up to 1 piece (attachment is integrated with lens)	Up to 2 pieces	
Objective lens case		Three lens attachments can be stored		

*4 Total magnification when using MPLFLN1.25X

Stage		DSX10-RMTS	DSX10-MTS	U-SIC4R
Stage	XY stage: motorized / manual	Motorized (with rotation function)	Motorized	Manual
	XY stroke	Stroke priority mode : 100 mm × 100 mm Rotation priority mode : 50 mm × 50 mm	100 mm × 100 mm	100 mm × 105 mm
	Rotation angle	Stroke priority mode : $\pm 20^\circ$ Rotation priority mode : $\pm 90^\circ$	Not available	
	Display rotation angle	GUI	Not available	
	Load-resistance	5 kg (11 lb)		1 kg (2.2 lb)

Frame	Upright frame	Tilt frame
Z-axis stroke	50 mm (manual)	
Tilt observation	Not available	$\pm 90^\circ$
Tilt angle display	Not available	GUI
Tilt angle method	Not available	Manual, fix / release handle

Display	
Size	27-inch flat panel display
Resolution	1,920 (H) × 1,080 (V)

System Total		Upright frame system	Tilt frame system
Weight (frame, head, motorized stage, display, and console)		43.7 kg (96.3 lb)	46.7 kg (103 lb)
Power consumption		100 V-120 V/220 V-240 V-1.1/0.54 A-50/60 Hz	



Evident Corporation
Shinjuku Monolith, 2-3-1 Nishi-Shinjuku,
Shinjuku-ku, Tokyo 163-0910, Japan

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For details on certification registration, visit <https://www.olympus-ims.com/en/iso/>
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Performance characteristics and other values described in this brochure are based on our evaluations as of April 2024, and are subject to change without notice.
The information including guaranteed accuracy in this brochure is based on the condition set by Evident. For details, refer to the Instruction Manual.
Images on the PC monitors are simulated.
Specifications and appearances are subject to change without any notice or obligation on the part of the manufacturer.