



Gemological binocular stereozoom microscope, 7x...45x, tiltable stand, transmitted & incident light

Observation Method - Transmitted Light	Brightfield	Yes
	Darkfield	Yes
	Simple polarized light	As optional

Observation Method - Incident Light	Brightfield	Yes
	Darkfield	Yes
	Simple polarized light	As optional

Head	Type	Binocular
	Construction material	Aluminum & Plastic molds / Aluminum gears
	Inclination	45°
	360° rotating	Yes
	Interpupillary distance (mm)	51-75
	Dioptric adjustment	On both tubes
	Head holder internal diameter (mm)	76
	Tube inner diameter (mm)	30

Eyepieces	Field number (mm)	21
	Magnification	10x
	Micrometric scale	As optional
	Diameter of micrometer glass (mm)	23
	High eyepoint (for glass wearers)	Yes
	Rubber cup	Yes
	Retractable protections	Yes

Objective	Optical system	Greenough
	Anti-fungus treatment	Yes
	Objective Type	Achromatic
	Zoom type	Parfocal achromatic
	Working distance (mm)	100
	Standard magnifications	7x-45x
	Zoom ratio	6,43
	Objective numerical aperture	0.02 @ 0.7x 0.07 @ 4.5x
	Objective resolution	59 lp/mm @ 0.7x 208 lp/mm @ 4.5x

Focusing System	Type	Coarse
	Coarse total travel (mm)	114
	Adjustable tension	Yes
	Head holder internal diameter (mm)	76
Stand	Type	Fixed arm
	Tilting mechanism	Yes, full 90° tilt angle and 360° rotating
Stage	Gemological clamp	Yes, adjustable
Transmitted Illumination	Type	LED
	Darkfield illuminator	Yes, side-emitting LEDs
	Lever for dark background insertion	Yes
	Selector for illumination modes	Yes, 3 modes: - brightfield only - darkfield only - both brightfield and darkfield.
	Light source power (W)	2
	Illuminance (lux)	6,000
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,300
	Max. required power (W)	3
Incident Illumination	Type	LED
	X-LED type	X-LED2
	Light source power (W)	3
	Illuminance (lux)	80,000
	Brightness control	Manual
	Lifetime (hours)	> 65,000
	Temperature (K)	6,500 (Nordic light)
Max. required power (W)	6	
Power Supply for Illumination	Type	External
	Microscope connector	Jack, 2.1 mm
	Power plug type	Multi-plug (EU, UK, US)
	Input voltage	100/240 Vac, 50/60 Hz
	Output voltage	12 Vdc 1.5 A
Accessories Included	Dust cover	Yes
	User Manual	Digital version (downloadable)
Additional Information	Maximum sample height (mm):	90
Product Dimensions	Total height (mm)	480
	Head height (mm)	230
	Head width (mm)	140
	Head depth (mm)	150
	Base height (mm)	60
	Base width (mm)	210
	Base depth (mm)	270
Product Weight	(kg)	10