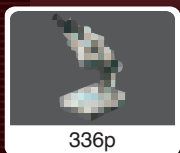
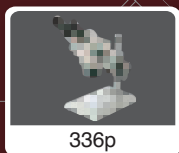


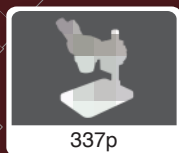
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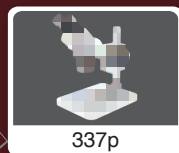
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337p



337p



337p



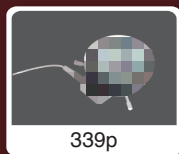
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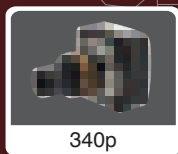
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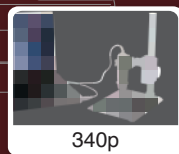
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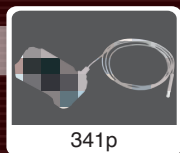
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340p



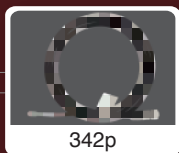
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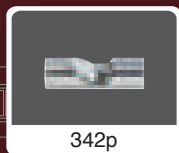
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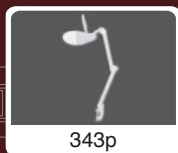
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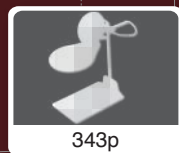
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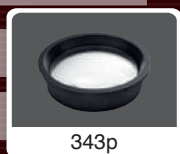
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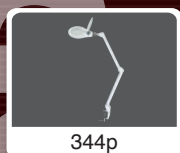


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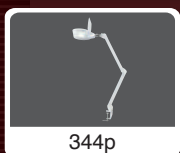


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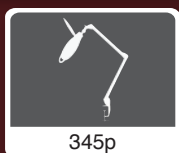
MICROSCOPE



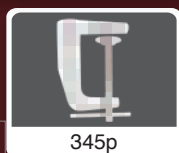
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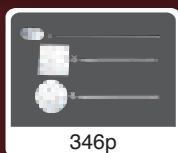
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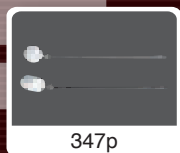
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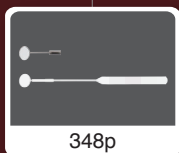
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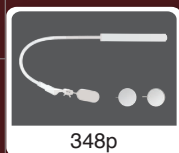
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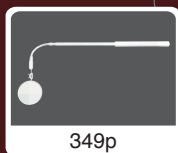
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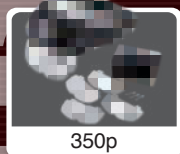
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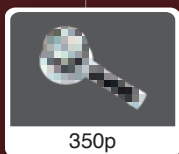
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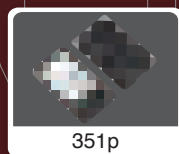
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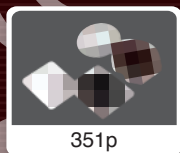
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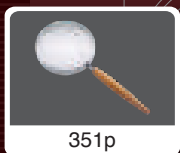
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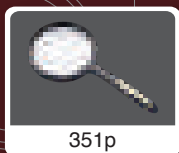
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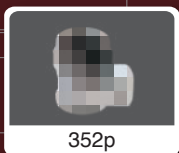
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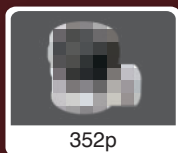
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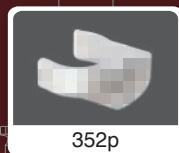
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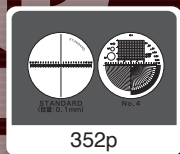
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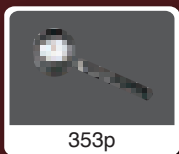
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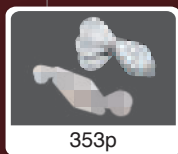
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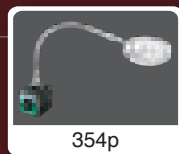
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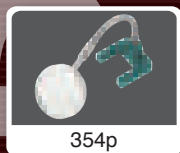
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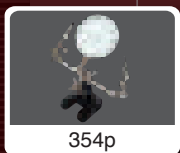
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MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE



MICROSCOPE SPECIFICATION SUMMARY

Product Name	DIGITAL MEASURING MICROSCOPE	ZOOM STEREO MICROSCOPE			VARIABLE POWER STEREO MICROSCOPE	VARIABLE POWER TURRET STYLE STEREO MICROSCOPE
Model No.	MMS-1498	XTS2021	XTS-SP2	XZ-45N	XT-2040	XTDB-SP2N
Page Referred	335	336	336	337	337	337
						
Type	Turret Type	Zoom Type			Turret Type	
Magnification	14x~98x	6.5x~45x 13x~90x		10x~45x	20x 40x	10x 30x
Objective	0.7x, 1x, 1.5x, 2x, 2.5x, 3x, 4x, 5x	0.65x~4.5x (Zoom Ratio 1:7)		1x~4.5x (Zoom Ratio 1:4.5)	2x 4x	1x 3x
Eyepiece	—	WF10x (FOV 20mm) WF20x (FOV 10mm)		WF10x (FOV 20mm)	WF10x (FOV 19mm)	WF10x (FOV 20mm)
Working Distance	100mm	95mm		97mm	105mm	100mm
Eyepiece Angle	—	45°		60°	45°	
Eyepiece Width adj. Range	—	55~75mm		—	55~75mm	
Lighting	Built-in ●Epi-illumination ●White LED x 144pcs	Built-in ●Epi-illumination (halogen bulb:6V·15W) ●Transmitted illumination (5W fluorescent bulb)	Separately Sold			
Applicable Lighting (separately sold)	Not attachable	Not attachable	LED RING ILLUMINATOR ⇒ P338~339  ●Model No. L-21D Number of LED: 21 Illuminance Adjustment Function  ●Model No. L-48D Number of LED: 48 (Switchable lighting sections) Illuminance Adjustment Function  ●Model No. L-120DF Number of LED:120 Equipped with a polarizing filter to reduce glare			
Mounting Size	—	—	M48 attachment included	φ53mm	M48 attachment included	
Base Dimensions	320 x 260 x 20mm	245 x 190 x 60mm	245 x 170 x 40mm	255 x 200 x 25mm	295 x 285 x 33mm	255 x 200 x 25mm
Diopter adj. Range	—	±5 diopter				
Stand	Rack & pinion	Rack & pinion	Pole stand (φ 25mm)	Pole stand (φ 32mm)	Pole stand (φ 30mm)	Pole stand (φ 32mm)

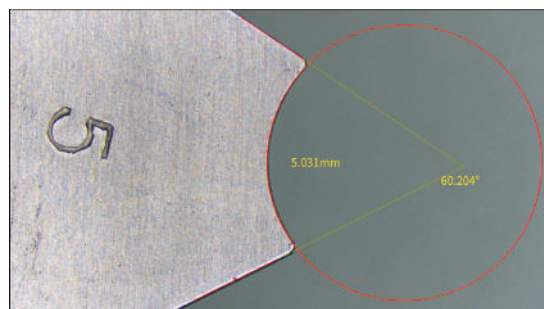
DIGITAL MEASURING MICROSCOPE **NEW!**

Standard Monitor Included.

A microscope capable of measurement and recording. Equipped with an automatic detection function to recognize the workpiece's contour, allowing for intuitive operation.



11.6inch
LCD
Display



USE

- For inspecting cracks, surface degradation, etc., in mechanical parts made of metal, fiber, resin, etc.
- For measuring hard-to-reach areas on images that are difficult to measure with hand tools

MATERIAL

- Body: PVC
- Column and Base: Aluminum

FEATURES

- A digital microscope with an integrated optical system and monitor
- Various measurements such as length, parallel/ vertical distance, circle dimensions, and angles can be performed on images
- By connecting a USB flash memory, image and measurement data can be exported
- Comes with standard dimmable white LED ring lighting
- The accuracy of the scale can be checked using a separately sold calibration slide

SPECIFICATIONS

- Total magnification: 14 to 98x
- Objective lens: 0.7x, 1x, 1.5x, 2x, 2.5x, 3x, 4x, 5x
- Field of view: Approx. 16 x 11 to 2.2 x 1.5mm (with menu display)
- Guaranteed accuracy at shipment: 0.7x: $\pm 0.05\text{mm}$
4.0x, 5.0x: $\pm 0.03\text{mm}$

(For higher accuracy, calibration can be performed with an optional calibration slide)

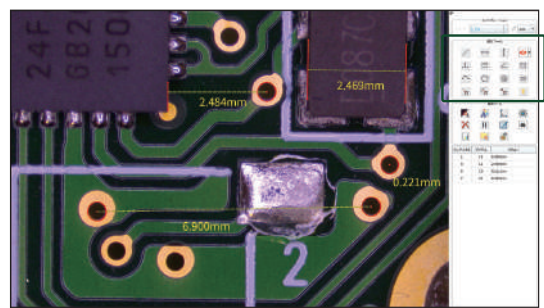
- Working distance: 100mm
- Maximum observable Height: Approx. 60mm
- Focus adjustment: Main body vert. position control
- Stand: Rack and pinion system
- Image sensor: 1/3 CMOS
- Pixel count: 1980 x 1080 pixels, approx. 2 million pixels
- Frame rate: 25, 30, 50, 60 frames per second (selectable)
- Interface: USB 2.0 x 2
- Illumination: White LED x 144
- Main functions: Image RGB, contrast adjustment, still image storage, measurement (length, parallel/vertical distance, circle dimensions, angle, etc.) and measurement data storage

POWER SUPPLY

- Included AC Adapter

ACCESSORIES

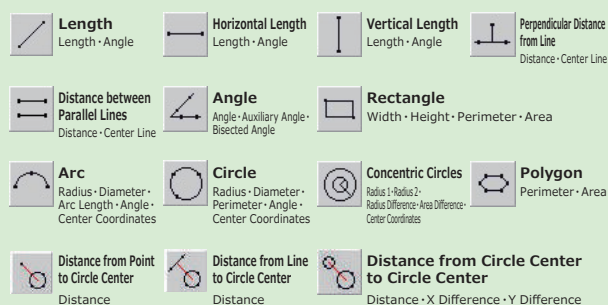
- AC Adapter (AC100-240V), Mouse, Protective cover



Observation Screen

Menu Screen

[Measurement Tools]



MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE



Order No.	Model No.	Body Size	Weight
NEW! 140153	MMS-1498	290 × 320 × 443mm	4.4kg

Also Available: CALIBRATION SLIDE for Accuracy Verification CS-MMS-10 (Sold separately) / 3D ATTACHMENT for stereoscopic observation from an angle 3D-MMS (Sold separately).

ZOOM STEREO MICROSCOPE

Zoom type that is ideal for enlarging and inspecting precision parts



USE

- Ideal for inspection of semiconductors, electronics, and precision parts

FEATURES

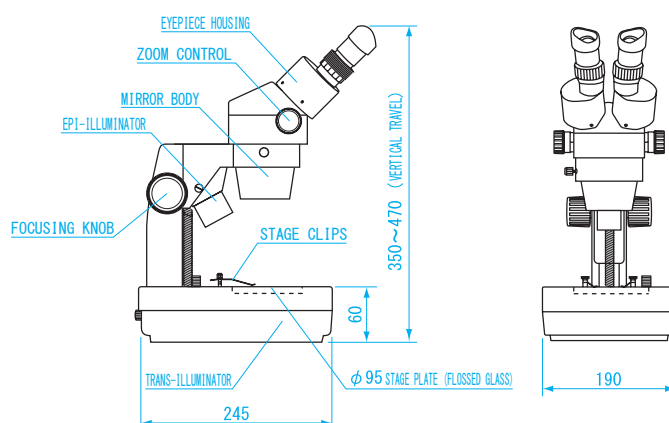
- Zoom type binocular stereoscopic microscope
- With epi-illumination (halogen) and transmitted illumination (fluorescent)
- With two pcs of stage plates (flossed glass and reversible black & white plastic plate)

SPECIFICATIONS

- Rated Voltage: AC100V

● DIMENSIONS

Units : mm



■ 5W FLUORESCENT BULB FOR TRANSMITTED ILLUMINATION

Order No.	Model No.	Rated Power
140014	2021-5W-OS	5W

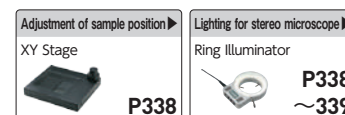
■ 15W HALOGEN LAMP

Order No.	Model No.	Rated Power
140005	6V-15W	15W

Order No.	Model No.	Magnification	Objective	Eye Piece	Working Distance	Focus Adjustment	Eye Width Adjustment	Eye Piece Inclination	Diopter Adjustment Range	Stand	Lighting System	Weight
140003	XTS2021	6.5~45x 13~90x	0.65~4.5x (Zoom Ratio 1:7)	WF10x (FOV 20mm) WF20x (FOV 10mm)	95mm	Main body vert. position control	55~75mm	45°	±5 diopter	Rack & pinion	Epifluorescence ~6V-15W Transillumination ~5W	5.7kg

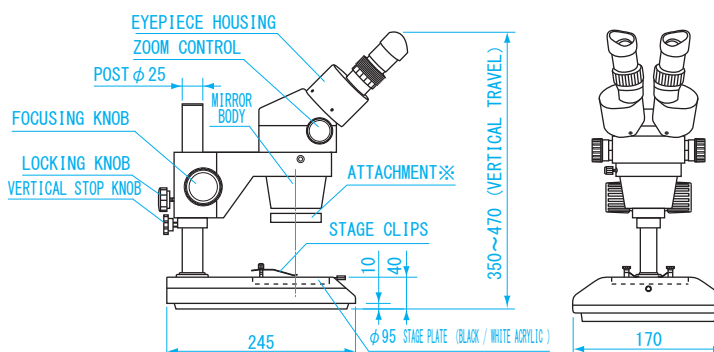
ZOOM STEREO MICROSCOPE

Zoom type that is ideal for enlarging and inspecting precision parts



● DIMENSIONS

Units : mm



※ For installing an optional lighting

USE

- Ideal for inspection of semiconductors, electronics, and precision parts

FEATURES

- Zoom type binocular stereoscopic microscope
- Optional lighting unit attachable (separately sold)

Order No.	Model No.	Magnification	Objective	Eye Piece	Working Distance	Focus Adjustment	Eye Width Adjustment	Eye Piece Inclination	Diopter Adjustment Range	Stand	Weight
140000	XTS-SP2	6.5~45x 13~90x	0.65~4.5x (Zoom Ratio 1:7)	WF10x (FOV 20mm) WF20x (FOV 10mm)	95mm	Main body vert. position control	55~75mm	45°	±5 diopter	Pole stand	5.4kg



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ZOOM STEREO MICROSCOPE

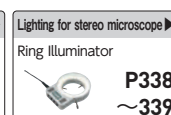
Zoom type that is ideal for enlarging and inspecting precision parts

USE

- Ideal for inspection of semiconductors, electronics, and precision parts

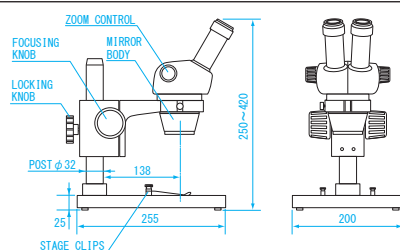
FEATURES

- Zoom type binocular stereoscopic microscope
- Optional lighting unit attachable (separately sold)



● DIMENSIONS

Units : mm



Order No.	Model No.	Magnification	Objective	Eye Piece	Working Distance	Focus Distance	Eye Piece Inclination	Diopter Adjustment Range	Stand	Weight
140102	XZ-45N	10~45x	1~4.5x (Zoom Ratio 1:4.5)	WF10x (FOV 20mm)	97mm	Main body vert. position control	60°	±5 diopter	Pole stand	3.6kg

VARIABLE POWER STEREO MICROSCOPE TURRET TYPE

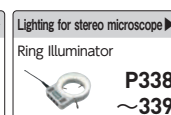
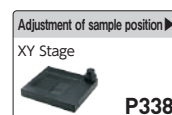
Two magnifications with switchable objective lens

USE

- Ideal for continuous inspection of components of similar size

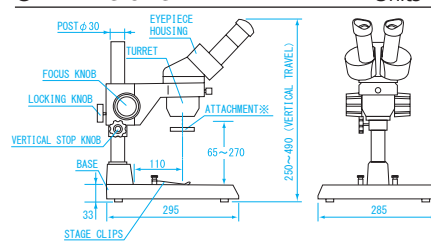
FEATURES

- Binocular turret type stereo microscope with switchable objective lens
- Optional lighting unit attachable (separately sold)



● DIMENSIONS

Units : mm



※ For installing an optional lighting

Order No.	Model No.	Magnification	Objective	Eye Piece	Working Distance	Focus Adjustment	Eye Width Adjustment	Eye Piece Inclination	Diopter Adjustment Range	Stand	Weight
140101	XT-2040	20x 40x	2x 4x	WF10x (FOV 19mm)	105mm	Main body vert. position control	55~ 75mm	45°	±5 diopter	Pole stand	3.7kg

VARIABLE POWER STEREO MICROSCOPE TURRET TYPE

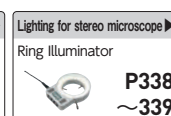
Two magnifications with switchable objective lens

USE

- Ideal for continuous inspection of components of similar size

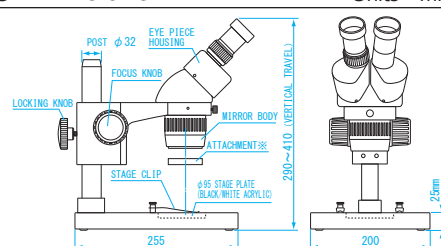
FEATURES

- Binocular turret type stereo microscope with switchable objective lens
- Optional lighting unit attachable (separately sold)



● DIMENSIONS

Units : mm



※ For installing an optional lighting

Order No.	Model No.	Magnification	Objective	Eye Piece	Working Distance	Focus Adjustment	Eye Width Adjustment	Eye Piece Inclination	Diopter Adjustment Range	Stand	Weight
140007	XTDB-SP2N	10x 30x	1x 3x	WF10x (FOV 20mm)	100mm	Main body vert. position control	55~ 75mm	45°	±5 diopter	Pole stand	3.6kg

XY STAGE FOR MICROSCOPE **NEW!**

For fine adjustments of the sample position with separate vertical and horizontal dials

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● DIMENSIONS

Units : mm

USE

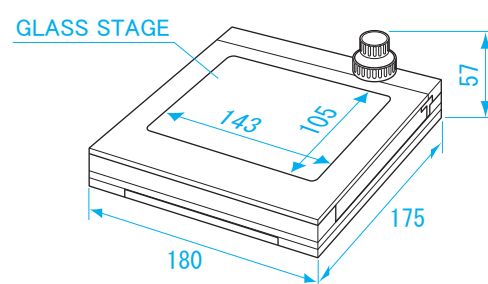
- For adjusting sample position

FEATURES

- Body: Aluminum
- Stage: Glass
- Adjustment dial: Plastic

ACCESSORIES

- Movable stage allows easy adjustment of sample position
- With a non-slip mat
- Even microscopes with incompatible base hole diameters can be used by removing the guide on the back of the device



Order No.	Model No.	Maximum Load Capacity	Stage Movement Range (mm)	Compatible Microscope Base Hole Diameter (mm)	Weight
NEW! 140024	STD-8090	Up to 5.5kg	Vertical 80 x Horizontal 90	φ95	1.7kg

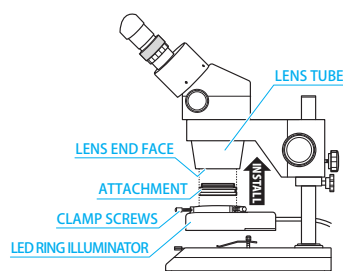
LED RING ILLUMINATOR FOR STEREO MICROSCOPE

High brightness and long life LED illuminator for STEREO MICROSCOPE

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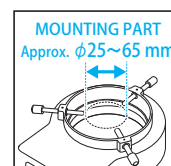


● Example of mounting



● How to mount

Tighten three clamp screws to fix illuminator on lens tube
※ Attachment is required if lens tube is not cylindrical



USE

- Compact and lightweight lighting for stereo microscope

MATERIAL

- Polycarbonate, steel

FEATURES

- For mounting on microscopes with bottom tube diameter 65mm and less
- High brightness and long life LED light
- Illuminance adjustment function
- Applicable product: XTS-SP2, XZ-45N, XT-2040, XTDB-SP2N

SPECIFICATIONS

- Power: AC100-240V 50/60Hz (with included AC adaptor)
- Power consumption: Approx. 3W (max. brightness)
- Illuminance: Approx. 280~3,400lx (100mm distance from lens to object)

ACCESSORIES

- AC adaptor (code length: approx. 1.5m)

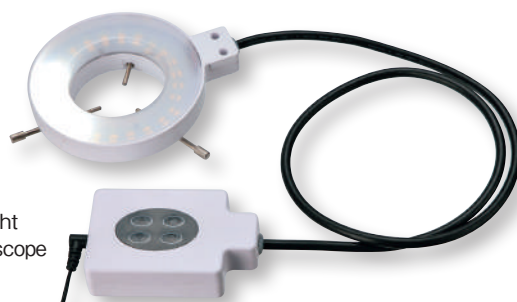
Order No.	Model No.	Illuminant	Color Temperature	Operating Temperature	Mounting Part	Weight
140207	L-21D	White LED 21pcs	Approx. 5,000K (daylight white)	0 ~ 40°C	φ25 ~ φ65mm	112g

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LED RING ILLUMINATOR FOR STEREO MICROSCOPE

High brightness and long life LED illuminator for STEREO MICROSCOPE

Switchable lighting type



USE

- Compact and lightweight lighting for stereo microscope

MATERIAL

- Polycarbonate, steel

FEATURES

- For mounting on microscopes with bottom tube diameter 65mm and less
- High brightness and long life LED light
- Switchable lighting pattern in all-lit and 4-split partial-lit, and with illuminance adjustment function
- Separated controller
- Applicable product: XTS-SP2, XZ-45N, XT-2040, XTDB-SP2N

SPECIFICATIONS

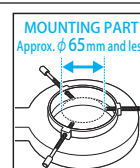
- Power: AC100-240V 50/60Hz (with included AC adaptor)
- Power consumption: Approx. 6W (max. brightness)
- Illuminance (all-lit) : Approx. 1,300~6,800lx (100mm distance from lens to object)
- Illuminance (partial-lit) : Approx. 300~1,200lx (100mm distance from lens to object)

ACCESSORIES

- AC adaptor (cord length: approx. 1.5m)

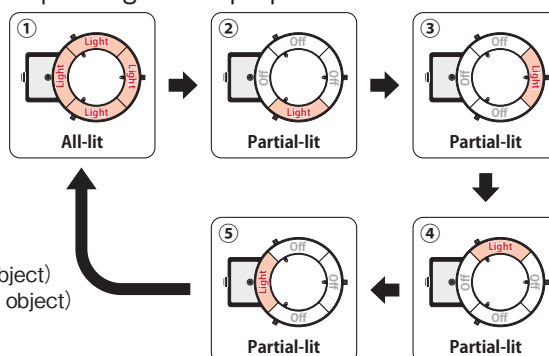
● How to mount

Tighten three clamp screws to fix illuminator on lens tube
 ※ Attachment is required if lens tube is not cylindrical



■ Lighting pattern

Switchable in five different patterns of lighting depending on the purpose



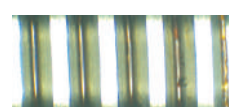
Order No.	Model No.	Illuminant	Color Temperature	Operating Temperature	Mounting Part	Weight
140208	L-48D	White LED 48pcs	Approx. 5,000K (daylight white)	0 ~ 40℃	φ65mm and less	320g

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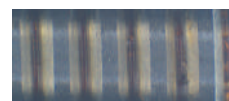
LED RING ILLUMINATOR WITH POLARIZING FILTER **NEW!**

High brightness and long life LED illuminator for STEREO MICROSCOPE

Polarizing filters can reduce halation that interferes with observation.



Reduces halation with Polarizing Filter



USE

- A compact and lightweight lighting system for stereo microscopes

MATERIAL

- Aluminum

FEATURES

- For mounting on microscopes with bottom tube diameter 60mm and less
- High brightness and long life LED light
- Equipped with a polarizing filter, allowing adjustment of the filter strength by rotating the memory section
- Illuminance adjustment function
- Applicable product: XTS-SP2, XZ-45N, XT-2040, XTDB-SP2N

SPECIFICATIONS

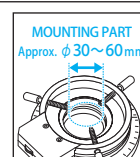
- Power: AC100-240V 50/60Hz (with included AC adapter)
- Power consumption: Approx. 5W (max. brightness)
- Illuminance: Approx. 14,000lx (100mm distance from lens to object)

ACCESSORIES

- AC adapter (cord length: approx. 1.4m), Polarizing filter

● How to mount

Tighten three clamp screws to fix illuminator on lens tube
 ※ Attachment is required if lens tube is not cylindrical



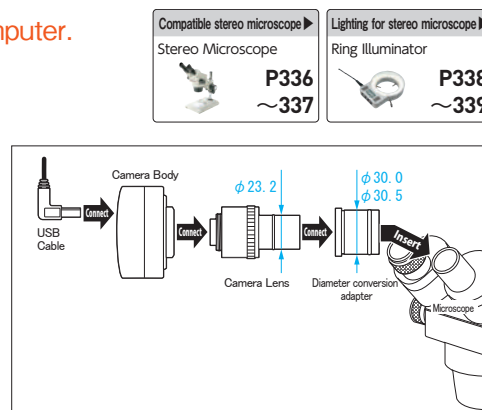
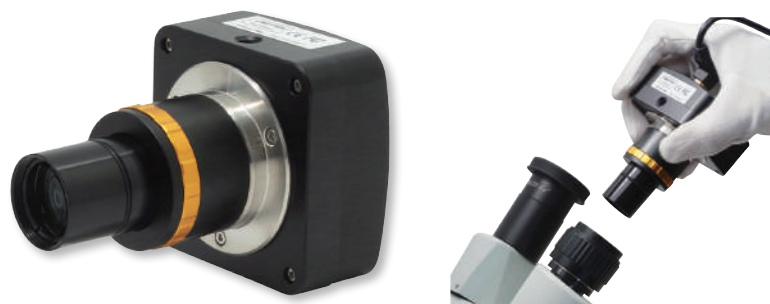
Order No.	Model No.	Light Source	Color Temperature	Microscope mounting part	Weight
NEW! 140026	L-120DF	White LED 120pcs	Approx. 6,500K (Daylight color)	φ30-60mm	240g



USB CAMERA FOR MICROSCOPE **NEW!**

Easy to install. View images from your stereo microscope on your computer.
Compatible with microscopes other than our own products.

0



USE

- Insert into the eyepiece of a stereo microscope and use it as a camera

FEATURES

- Affordable USB camera for microscopes
- High-resolution type with 1.3 million pixels
- Supported OS: Windows 7, 8, 10, 11

ACCESSORIES

- Viewer software
- Diameter conversion adapter
(φ23.2 to φ30.0mm... 1 piece, φ23.2 to φ30.5mm... 1 piece)
- USB Cable (approx. 2m)



Viewer software included

Order No.	Model No.	Image Sensor	Pixel Count	Frame Rate	Interface	Power Supply	Weight
NEW! 140025	MU-130Plus	1/3 CMOS	1.3 million pixels	15fps (1280 x 1024) 26fps (640 x 512)	USB Type-B 2.0	via USB port	240g

NSK MINI MICROSCOPE WITH BASE

0

Resolution 1,300,000 pixels and high quality image can be captured and saved

USE

- For inspection of machine parts, metal, fiber, paper, resin, biological tissue, crack, surface deterioration and corrosion
Resolution 1,300,000 pixels and high quality image can be captured and saved for making reports and documents
- For meeting and presentation by sharing image in real time with multiple people

FEATURES

- Simple measurement and calibration function
- Stand base (included) for easy-focus
- Shutter release button on camera body for easy-capture without using mouse
- PL filter installed
- Natural color image close to actual color
- Improved processing speed for smooth image without flicker in screen
- Improved sensor sensitivity captures dark subjects with fine image quality
- Supported OS: Windows XP, Vista, 7, 8, 10, 11 Mac OS 10.14 or later



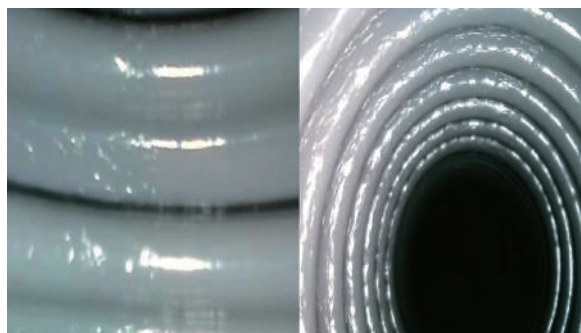
Order No.	Model No.	Type	Imaging Sensor	Resolution	Magnification	Light
140184	MMS-130PLM3	With PL filter	1/4 inch CMOS sensor	1,280 x 1,024 pixels (SXGA) Approx. 1,300,000 pixels	Approx. 10~230x	Internal LED 8 pcs

Frame Rate	Exposure	Interface	Main Functions	Weight	
				Body	Base
30 frames / sec	Auto-exposure	USB2.0	<ul style="list-style-type: none"> ● Still image (bmp) capture and save ● Video (AVI) capture and save ● Simple measurement (line, continuous line, radius, diameter, three-point circle and angle) 	102g	1.1kg



360-DEG ROTATING DUAL CAMERA BORE SCOPE **NEW!**

Equipped with a 360-degree rotating dual camera, enabling simultaneous front and side view inspection. This industrial endoscope allows you to inspect and record inside curved pipes with its IP68-rated cable.



USE

- Industrial endoscope for inspecting inside of curved pipes
- Dual cameras allow simultaneous viewing of the front and side
- For recording still images and videos

MATERIAL

- Body: Plastic
- Cable: Plastic

FEATURES

- The dual cameras allow detailed inspection of the front and side simultaneously, with the ability to save both still images and videos
- The dual camera can rotate 360 degrees via body controls, eliminating the need for a side-view adapter
- Equipped with a large and easy-to-view 4.5-inch IPS display
- The camera is IP68-rated for dustproof and waterproof performance and is also oil-resistant, making it suitable for harsh environments
- Videos and still images in 1920 x 1080 resolution can be saved to a microSD card.
- With a 32GB microSD, you can store approximately 280,000 images or 180 minutes of video.
- Equipped with white LEDs that illuminate both the front and side of the camera, allowing for bright recording even in dark pipes

SPECIFICATIONS

- Storage: microSD card (Class 10 or higher, up to 128GB)
- Interface: USB-Type C
- Display: 4.5-inch IPS display
- Protection rating: IP68
- Camera field of view: 70 degree
- Camera focal distance: 20mm to 50mm
- Camera illumination: Front: White LED x 8pcs, Side: White LED x 1pc, Body: White LED x 4pcs
- Operating temperature range: Camera lens: 0°C to 90°C, Body: 5°C to 40°C
- Body dimensions: 145 x 85 x 18mm

POWER SUPPLY

- Built-in lithium-ion battery (Standard operating time when fully charged: 3 hours)

ACCESSORIES

- 32GB microSD card
- USB charging cable (approx. 50cm)
- Camera protection adapter
- Magnet adapter
- Hook adapter

Features a dual camera for simultaneous front and side view inspection.

MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE



Order No.	Model No.	Cable Size	Camera Diameter	Recording File Format	Weight
NEW! 140220	E902-RD	Approx. ϕ 4.5mm x L2m	ϕ 9.0mm	Still images: JPEG format (Resolution: 1920 x 1080) Videos: AVI format (Resolution: 1920 x 1080)	310g
NEW! 140221	E905-RD	Approx. ϕ 4.5mm x L5m			310g
NEW! 140222	E910-RD	Approx. ϕ 4.5mm x L10m			310g

BORESCOPE WITH MONITOR

Borescope can shoot still images and movies.

You can view images directly, or connect to your computer via USB.

USE

- Industrial borescope can inspect inside holes and around corners

MATERIAL

- Body: Plastic

FEATURES

- Integrated monitor allows real time viewing and capture to memory
- Can view images directly, or connect to PC with USB
- Video output
- Cable is compliant to IP66

SPECIFICATIONS

- Continuous use: Approx. 3 hrs. (without recording)

ACCESSORIES

- $\phi 5.5\text{mm} \times 1\text{m}$ semi-hard type cable camera
- View adapter 45°
- AC adapter
- Two lithium-ion batteries included



Order No.	Model No.	Cable Size	Monitor Size	Number of pixels	View Angle	Depth of Focus	Power	AV Output
140210	MIS-5510G	ϕ 5.5mm x (L) 1m	3.5 inch	300,000 pixels	Approx. 67°	Approx. 20-50mm	DC5V	NTSC/ PAL
Lighting	Still Image Recording Pixels	Video Recording Pixels	File Format	Recording Media	Dimensions (mm)	Weight		
White LED (Dimming)	640 x 480 pixels	640 x 480 pixels	JPEG (still image Recording pixels) AVI (video)	SD card (less than 4 GB)	Approx. L210 × W100 × H45	410g		

OPTIONAL ACCESSORIES FOR MIS SERIES

Camera for MIS

USE

- Optional camera for MIS series bore scope (IP66 equivalent)

MATERIAL

- $\phi 5.5$ model: Stainless cable

FEATURES

- $\phi 5.5$ model: High rigidity stainless cable is ideal for inspection of harsh places



C-MIS-5530G

Order No.	Model No.	Cable size	Cable type	Number of Pixels	Resolution	Focal Length (mm)	LED Pcs
140219	C-MIS-5510G	$\phi 5.5\text{mm} \times 1\text{m}$	Semi-hard tube	300,000 pixels	640 x 480	Approx. 20~50	4
140214	C-MIS-5520G	$\phi 5.5\text{mm} \times 2\text{m}$	Semi-hard tube	300,000 pixels	640 x 480	Approx. 20~50	4
140215	C-MIS-5530G	$\phi 5.5\text{mm} \times 3\text{m}$	Semi-hard tube	300,000 pixels	640 x 480	Approx. 20~50	4

Side view adapter for MIS series

USE

- Side view adapter for monitor type industrial borescope

MATERIAL

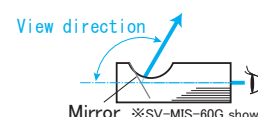
- Copper plated (excluding mirror), brass

FEATURES

- Install on tip of borescope to change viewing angle



SV-MIS-35G



Mirror ※SV-MIS-60G shown

Order No.	Model No.	Mirror Angle	View Direction	Weight
140217	SV-MIS-35G	Approx. 35°	Approx. 70°	2g
140218	SV-MIS-60G	Approx. 60°	Approx. 120°	2g

LITHIUM-ION BATTERY FOR MIS

USE ● Lithium-ion battery for monitor type industrial bore scope

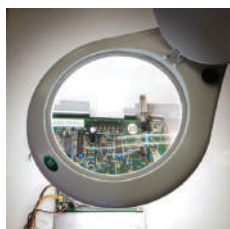
Order No.	Model No.	Rated Voltage	Rated Capacity	Weight
140216	B-MIS-37G	DC 3.7V	1,880mAh	42g

MAGNIFIER WITH LED LIGHT ARM TYPE

With durable, long-life LED light



LS2-175A



For inspection and precise work



Anti-reflective cover to soften the light for less reflection

USE

- For assembly and inspection of precision parts

MATERIAL

- Lens: Hard glass
- Body: Steel, plastic

FEATURES

- Durable and long-life LED light
- Large lens for clear view with both eyes
- With protective lens cover
- Clear glass lens does not affect color or items viewed

SPECIFICATIONS

- Rated voltage: AC100-240V
- Rated frequency: 50/60Hz
- Rated power consumption: 15W
- Illuminance: 5,500lx (with 250mm distance from lens to object)
- Color temperature: Approx. 5,000K <daylight white>
- Number of LED: 84 pcs
- Clamping range: Approx. 10~60mm
- Power cable length: Approx. 1.8m

ACCESSORIES

- Lens cleaning cloth ● Clamp

Order No.	Model No.	Arm Length	Visible Lens DIA (mm)	Magnification	Weight
140121	LS2-175A	Lower: 435 Upper: 425	φ170	2x	3.4kg
140124	LS4-150A	Max: 870	φ140	4x	3.6kg

MAGNIFIER WITH LED LIGHT DESK STAND TYPE

With durable, long-life LED light



LS2-175S



USE

- For assembly and inspection of precision parts

MATERIAL

- Lens: Hard glass
- Body: Steel, plastic

FEATURES

- Durable and long-life LED light
- Large lens for clear view with both eyes
- With protective lens cover
- Clear glass lens does not affect color of items viewed

SPECIFICATIONS

- Rated voltage: AC100-240V
- Rated frequency: 50/60Hz
- Rated power consumption: 15W
- Illuminance: 5,500lx (with 250mm distance from lens to object)
- Color temperature: Approx. 5,000K <daylight white>
- Number of LED: 84 pcs
- Power cable length: Approx. 1.8m

ACCESSORIES

- Lens cleaning cloth ● Hexagonal bar wrench

Order No.	Model No.	Product Dimensions (mm)	Visible Lens DIA (mm)	Magnification	Weight
140122	LS2-175S	Total height 430	φ170	2x	5.1kg
140125	LS4-150S		φ140	4x	5.3kg

INTERCHANGEABLE LENS FOR MAGNIFIER WITH LED LIGHT

USE

- Interchangeable lens for MAGNIFIER WITH LED LIGHT

MATERIAL

- Hard glass

FEATURES

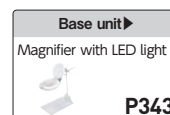
- Optional lens for MAGNIFIER WITH LED LIGHT

SPECIFICATIONS

- Applicable product: Swing arm type LS2-175A, LS4-150A
Deskstand type LS2-175S, LS4-150S



SL-4



Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
140126	SL-2	φ178	2x	0.9kg
140123	SL-4	φ150	4x	1.1kg

MAGNIFIER WITH DIMMABLE LED LIGHT ARM TYPE

With dimmable LED light.

Brightness is dimmable depending on environment and objects.

USE

- For assembly and inspection of precision parts

MATERIAL

- Lens: Glass
- Body: Steel, ABS

FEATURES

- Durable and long-life LED light
- Brightness is dimmable by dimmer control function steplessly
- Large lens for better view by both eyes
- With protective lens cover
- Clear glass lens does not affect color of view

SPECIFICATIONS

- Power: AC100-240V 50/60Hz (Using included AC adaptor)
- Power consumption: Approx. 10W (Max. brightness)
- Illuminance: Approx. 3100lx (Max. brightness and 250mm distance from lens to object)
- Color temperature: Approx. 5000K (daylight white)
- Number of LED: 60pcs
- Room temperature: 0~40°C
- Clamping range: Approx. 10~60mm
- AC adapter (cable length: Approx. 1.5m)
- Clamp



For inspection and precise work



Brightness is dimmable by dimmer control function



Order No.	Model No.	Arm length (mm)	Visible Lens DIA (mm)	Magnification	Weight
140127	LS2-125AD	Lower: 480 Upper: 490 Max.: 700	φ116	2x	2.3kg

MAGNIFIER WITH DIMMABLE LED LIGHT ARM TYPE

With dimmable LED light.

Touch switch and rectangular-like lense.

USE

- For assembly and inspection of precision parts

MATERIAL

- Lens: Glass
- Body: Steel, ABS

FEATURES

- Durable and long-life LED light
- Brightness is dimmable by dimmer control function steplessly
- Large lens for better view by both eyes
- With protective lens cover
- Clear glass lens does not affect color of view

SPECIFICATIONS

- Power: AC100-240V 50/60Hz (Using included AC adaptor)
- Power consumption: Approx. 11W (Max. brightness)
- Illuminance: Approx. 3,200lx (Max. brightness) (250mm distance from lens to object)
- Color temperature: Approx. 5,000K (daylight white)
- Number of LED: 72 pcs
- Operating temperature: 0~40°C
- Clamping range: Approx. 10~60mm

ACCESSORIES

- AC adaptor (cable length: approx. 1.5m)
- Clamp



For inspection and precise work

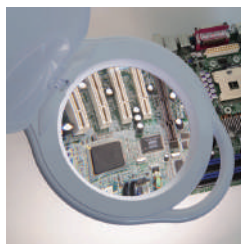
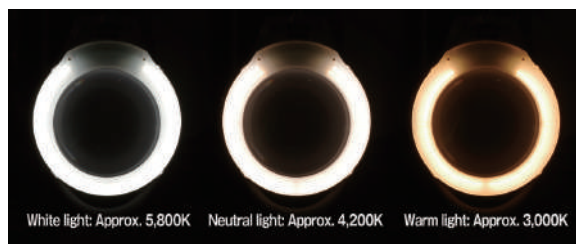


Order No.	Model No.	Arm Length (mm)	Visible Lens DIA (mm)	Magnification	Weight
140130	LS2-S170AD	Lower : 480 Upper : 490	170 x 105	2x	2.8kg

MAGNIFIER WITH DIMMABLE LED LIGHT ARM TYPE **NEW!**

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Brightness and light color can be adjusted. Adaptable to various workpieces and measurement environments. Equipped with a large lens for excellent visibility.



USE

- For assembly and inspection of precision parts

MATERIAL

- Lens: Hard glass
- Body: Steel, Plastic

FEATURES

- Equipped with a color adjustment function that allows the light color to be changed to match the workpiece and work environment (3-color modes)
- Brightness is dimmable by dimmer control function steplessly
- Touch switch type
- Durable and long-life LED light
- Large lens for better view by both eyes
- With protective lens cover
- Clear glass lens does not affect color of view

SPECIFICATIONS

- Rated voltage: AC100-240V
- Rated frequency: 50/60Hz
- Rated power Consumption: 15W
- Illuminance: 3,100lx (With 250mm distance from lens to object)
- Color temperature: Approx. 5,800K <White> / Approx. 4,200K <Neutral> / Approx. 3,000K <Warm>
- Number of LED: 84pcs (White) / 84pcs (Warm)
- Clamping range: Approx. 10-60mm
- Power cable length: Approx. 1.8m

ACCESSORIES

- AC Adapter (Approx. 1.8m) ● Lens Cleaning Cloth ● Clamp



Order No.	Model No.	Arm Length (mm)	Lens Visible Range (mm)	Magnification	Weight
NEW! 140131	LS2-175ADT	Lower: 490 Upper: 490	φ172	2x	2.9kg

MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE

CLAMP FOR ARM TYPE MAGNIFIER

0

USE

- Replacement clamp for MAGNIFIER WITH LED LIGHT ARM TYPE

MATERIAL

- Steel

SPECIFICATIONS

- Applicable product: LS2-175A, LS4-150A, LS2-125AD, LS2-S170AD, LS2-175ADT
- Clamp Range: Approx. 10-60mm



Order No.	Model No.	Weight
140129	LSC-125-175	310g

TELESCOPING INSPECTION MIRROR

Suitable for inspection of hard-to-see locations



IMT-50K



IMT-100S



IMT-100R

USE

- For inspection of hard-to-see locations

MATERIAL

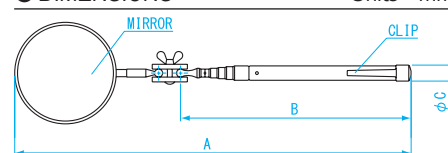
- Mirror: Glass

FEATURES

- Extendable reach and easy to carry
- Replacement mirror also sold separately
- With mirror protective film

● DIMENSIONS

Units : mm



Order No.	Model No.	Mirror Shape (mm)	A : Maximum Length (mm)	B : Telescope Length (mm)	C (mm)	Dimensions	Weight
011140	IMT-20R	Round ϕ 20	Approx. 525	Approx. 130~475	9	Brass	40g
011150	IMT-30R	Round ϕ 30	Approx. 535				40g
011160	IMT-60R	Round ϕ 60	Approx. 560	Approx. 145~475			63g
011170	IMT-50K	Oval 50 x 25	Approx. 555	Approx. 130~475			45g
011180	IMT-80K	Oval 80 x 50	Approx. 575	Approx. 145~475			66g
011185	IMT-85S	Square 100 x 85	Approx. 745	Approx. 245~610	13	Stainless steel	150g
011186	IMT-100S	Square 100 x 100	Approx. 745				150g
011187	IMT-100R	Round ϕ 100	Approx. 745				135g

MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE

INSPECTION MIRROR

Suitable for inspection of hard-to-see locations



IM-30R



IM-50K

USE

- For inspection of hard-to-see locations

MATERIAL

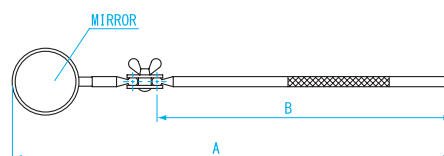
- Body: Free cutting steel
- Mirror: Glass

FEATURES

- Enables secure inspection through the mirror
- With mirror protective film

● DIMENSIONS

Units : mm



Order No.	Model No.	Mirror shape (mm)	A (mm)	B (mm)	Weight
011120	IM-20R	Round ϕ 20	Approx. 200	Approx. 145	30g
011130	IM-30R	Round ϕ 30	Approx. 210		35g
011110	IM-50K	Oval 50 x 25	Approx. 230		35g

MAGNIFYING INSPECTION MIRROR WITH TELESCOPING

Suitable for inspection of hard-to-see locations



IMTR-60R



IMTR-50K

USE

- For inspection of hard-to-see locations

MATERIAL

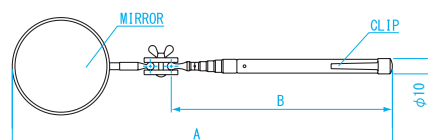
- Body: Brass
- Mirror: Glass

FEATURES

- Extendable reach and easy to carry
- Magnifying mirror provides an enlarged view
- With mirror protective film

● DIMENSIONS

Units : mm



Order No.	Model No.	Mirror shape (mm)	A: Max Length (mm)	B: Telescope Length (mm)	Magnification	Weight
011195	IMTR-20R	Round $\phi 20$	Approx. 525	Approx. 130~475	2x	40g
011196	IMTR-30R	Round $\phi 30$	Approx. 535	Approx. 130~475	2x	40g
011197	IMTR-60R	Round $\phi 60$	Approx. 560	Approx. 145~475	1.5x	60g
011198	IMTR-50K	Oval 50 x 25	Approx. 555	Approx. 130~475	2x	45g
011199	IMTR-80K	Oval 80 x 50	Approx. 575	Approx. 145~475	1.5x	60g

MAGNIFYING INSPECTION MIRROR

Suitable for inspection of hard-to-see locations.



IMR-20R



IMR-30R



IMR-50K

USE

- For inspection of hard-to-see locations

MATERIAL

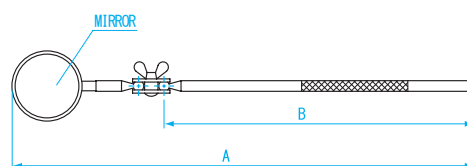
- Body: Free-cutting steel
- Mirror: Glass

FEATURES

- Magnifying mirror provides an enlarged view
- With mirror protective film

● DIMENSIONS

Units : mm



Order No.	Model No.	Mirror Shape (mm)	A (mm)	B (mm)	Magnification	Weight
011193	IMR-20R	Round $\phi 20$	200	145	2	30g
011194	IMR-30R	Round $\phi 30$	210	145	2	35g
011192	IMR-50K	Oval 50 x 25	230	145	2	35g

MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE



INSPECTION MIRROR WITH LIGHT **NEW!**

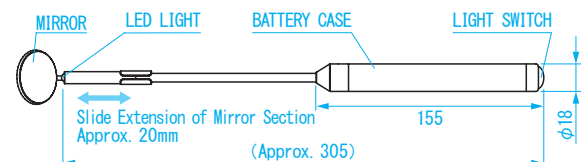
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Inspection mirror that is convenient for use in dim and hard-to-see areas



● DIMENSIONS

Units : mm



USE

- For inspecting the back side of machines or areas that are narrow and dark

MATERIAL

- Shaft: Stainless steel
- Grip: Aluminum
- Mirror: Glass

FEATURES

- With two mirror sizes
- Uses bright, energy-efficient LED bulbs
- With mirror protective film
- With a storage case

POWER SUPPLY

- 2x AA batteries (sold separately)

Order No.	Model No.	Mirror Shape (mm)	Weight
NEW! 011111	IMLED-2030R	Round φ20, Round φ30	70g*

※With round mirror φ30mm attached. Batteries not included.

INSPECTION MIRROR WITH LIGHT **NEW!**

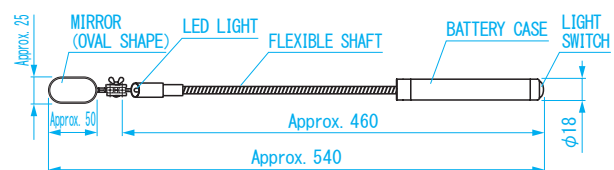
0

Inspection mirror convenient for use in dimly lit and hard-to-see areas. Equipped with a flexible shaft for adjustable angles.



● DIMENSIONS

Units : mm



USE

- For inspecting the back side of machines or areas that are narrow and dark

MATERIAL

- Flexible Section: Carbon steel
- Grip: Aluminum
- Mirror: Glass

FEATURES

- Flexible shaft allows free bending and angle adjustments
- With 3 mirror sizes
- Uses bright, energy-efficient LED bulbs
- With mirror protective film
- With a storage case

POWER SUPPLY

- 2x AA batteries (sold separately)

Order No.	Model No.	Mirror Shape (mm)	Weight
NEW! 011112	IMLED-50K	Oval 50 x 25, Round φ57, φ83	130g*

※With oval mirror 50×25mm attached. Batteries not included.

INSPECTION MIRROR WITH LIGHT **NEW!**

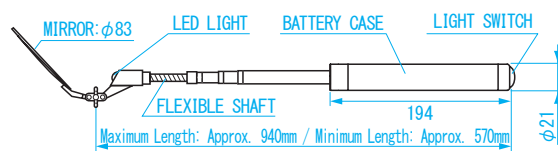
0

Inspection mirror convenient for use in dimly lit and hard-to-see areas. Shaft can be extended and retracted for adjustable length.



● DIMENSIONS

Units : mm



USE

- For inspecting the back side of machines or areas that are narrow and dark

MATERIAL

- Extension Section: Stainless steel
- Flexible Section: Carbon steel
- Grip: Aluminum
- Mirror: Glass

FEATURES

- Flexible shaft allows for free bending and angle adjustments
- Telescopic antenna-style shaft for adjustable length
- Uses bright, energy-efficient LED bulbs
- With mirror protective film
- With a storage case

POWER SUPPLY

- Three AA batteries (sold separately)

Order No.	Model No.	Mirror Shape (mm)	Weight
NEW! 011113	IMLED-83R	Round φ83	190g*

※With round mirror φ83mm attached. Batteries not included.

MAGNETIC STAND LED WORK LIGHT

0

As spot light where dim and hard-to-see.
Power saving LED light.



USE

- For second lighting for better view

MATERIAL

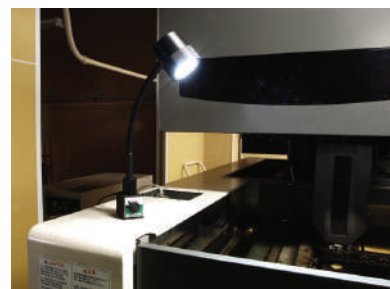
- Ferrite magnet

FEATURES

- Strong magnet with ON/OFF lever for easy removal
- Flexible shaft directs light where needed
- LED light, long life and power saving

SPECIFICATIONS

- LED color temperature: 5,500~6,000K
- Luminous flux: Approx. 326 lm
- Magnetice adsorption: Approx. 600N
- Power cable length: Approx. 1m
- Product dimensions: Approx. W70 x H475 x D80mm



Order No.	Model No.	Base Dimensions (mm)	Rated Voltage	Rated Frequency	Weight
011096	SB-60LED	50 x 60 x 55	AC100V	50/60Hz	1.6kg



HEAD LOUPE WITH ADJUSTABLE LED LIGHT AND INTERCHANGEABLE LENS

0

For hands-free.
Head loupe with LED light for best work efficiency.

USE

- For assembly and inspection of precision parts

MATERIAL

- Lens: Acrylic resin

FEATURES

- Adjustable belt to stay still on head to free both hands for detailed work
- LED light, long life and power saving. Angle adjustable to up, down, left and right to light up
- With four interchangeable lenses to adjust magnification

SPECIFICATIONS

- Battery life: Approx. 20hrs. with alkaline battery
- LED life: Approx. 40,000hrs. (not replaceable)

POWER

- Three AAA batteries included for testing

ACCESSORIES

- Lens 4 pcs ● Storage case



Order No.	Model No.	Magnification	Weight
111241	HL-LED	1.2x, 1.8x, 2.5x, 3.5x	140g



LED ILLUMINATED POCKET SIZE MAGNIFIER

A loupe equipped with a power-saving LED light. Ideal for observation in dark environments.

USE

- Magnifier with LED light

MATERIAL

- M-100II... External lens: Glass, Internal lens: Acrylic
- M-320II... Lens: Glass

FEATURES

- Magnifier with LED light for inspection in a dimly-lit place

POWER

- Two C batteries (not included)



M-100 II

M-320 II

Order No.	Model No.	Lens Diameter (mm)	Magnification	Length (mm)	Weight
111238	M-100 II	30	10x	180	90g
111239	M-320 II	80	2x	235	200g

MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE



LED ILLUMINATED POCKET SIZE MAGNIFIER

0

Durable 10x & 15x high magnification lens with LED light.
High performance magnifier.

USE

- Magnifier with LED light

MATERIAL

- Lens: Glass ● Body: ABS resin

FEATURES

- Magnifier with LED light for inspection in a dimly-lit place
- With protective storage case

SPECIFICATIONS

- Battery life: Approx. 40 hrs. with alkaline battery [LED PART SPECIFICATIONS]
- Diameter: Approx. 5mm ● Voltage: 3V
- Luminosity: 8,000~10,000mcd
- LED Life: Approx. 40,000 hrs.
- Directional angle: Approx. 30°

POWER

- Three AAA batteries (not included)



LL-10

LL-15

Order No.	Model No.	Lens Diameter (mm)	Magnification	Length (mm)	Weight
111236	LL-10	30	10x	105	41g
111237	LL-15	20	15x		49g



LED ILLUMINATED POCKET SIZE MAGNIFIER ①

Loupe with power-saving LED light. Three different magnifications in one loupe.



USE

- Magnifier with LED light

MATERIAL

- Lens: Acrylic resin
- Body: ABS ●Case: PVC

FEATURES

- Long-life LED light can light in the dark
- Choosable from three different magnifications depending on purpose
- Provided with storage case

SPECIFICATIONS

- Battery life: Approx. 10hrs.

POWER

- Two CR2032 (lithium) batteries included for testing



Order No.	Model No.	Lens size (mm)	Magnification	Total Length (mm)	Weight
111240	LL-357	70 x 54	3x, 5x, 7x	107	38g

FOLDING POCKET MAGNIFIER ①

(No.3150)

For general use as inspecting knife edge and various small parts



No.3150



No.3122-P

USE

- Slide type magnifier

MATERIAL

- Lens: Acrylic resin

FEATURES

- Slide-in-storage for easy-to-carry
- With protective case
- Bifocal lens

Order No.	Model No.	Lens Dimensions (mm)	Magnification	Weight
011268	No.3150	50 x 40	3.5x·5x	20g
011269	No.3122-P	φ65	2.5x·4x	35g

MAGNIFIER WITH WOODEN HANDLE ①

For general use as inspecting knife edge and various small parts



USE

- Hand magnifier

MATERIAL

- Lens: Glass ●Handle: Wood

FEATURES

- Wooden handle
- Scratch-resistant glass lens

Order No.	Model No.	Lens Diameter (mm)	Magnification	Length (mm)	Weight
011264	No.1430	75	2.5x	185	120g

MAGNIFIER WITH PLASTIC HANDLE ①

For general use as inspecting knife edge and various small parts



No.7507

USE

- Hand magnifier

MATERIAL

- Lens: Acrylic resin ●Handle: Plastic

FEATURES

- One lens for two magnifications
- Lightweight acrylic lens
- Plastic handle and frame

Order No.	Model No.	Lens Diameter (mm)	Magnification	Length (mm)	Weight
011266	No.7507	75	2x·4x	185	55g
011267	No.7515	90	2x·4x	210	86g

MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE



LED LIGHT SCALE LOUPE

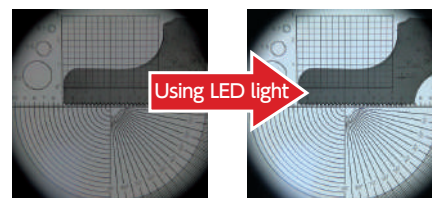
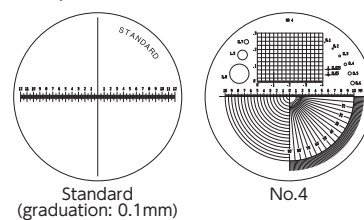
Suitable in dimly-lit place by LED light



LSL-26

LSL-35

Scale plate



USE

- For precision work

MATERIAL

- Lens: Glass

FEATURES

- Reticle with full width scale, can be used to measure dimensions and diameter of objects
- With LED light to improve visibility for reading scale

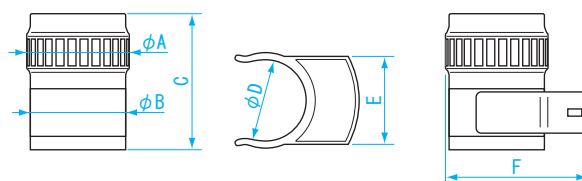
ACCESSORIES

- Two reticles (One installed)
- One eyepiece cap
- One cleaning cloth

POWER

- Three LR41 (alkaline button cell) (not included)

● DIMENSIONS



Units : mm

Model No.	φ A	φ B	C (Adjustable)	φ D	E	F
LSL-26	37.2	30.6	46.5 ~ 55.5	30	30.5	51.5
LSL-35	45	40	45 ~ 54	39.5	30.5	60

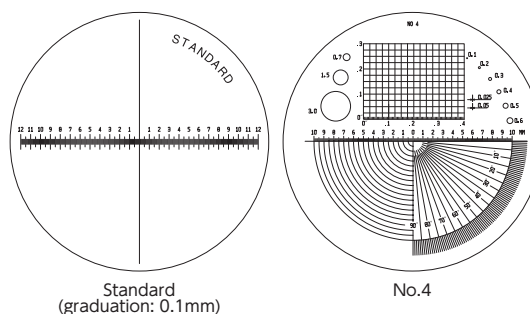
Order No.	Model No.	Magnification	Weight
140141	LSL-26	10x	45g
140142	LSL-35		73g

LED LIGHT FOR LED LIGHT SCALE LOUPE 0



L-26

SCALE PLATE FOR LED LIGHT SCALE LOUPE 0



USE

- Single light for LED LIGHT SCALE LOUPE

FEATURES

- LED light that is included in LED LIGHT SCALE LOUPE (LSL-26, LSL-35)

POWER

- Three LR41 (alkaline button cell) (not included)

Order No.	Model No.	Weight
140143	L-26	10g
140144	L-35	11g

USE

- Reticle scale plate for LED LIGHT SCALE LOUPE

FEATURES

- Reticle scale plate that is included in LED LIGHT SCALE LOUPE (LSL-26, LSL-35)

Order No.	Model No.	Pattern	Applicable Model	Weight
140146	S-26-4	No.4	LSL-26	3g
140147	S-26-S	STANDARD		3g
140148	S-35-4	No.4	LSL-35	4g
140149	S-35-S	STANDARD		4g



SCALE LOUPE

For precision work.
Use to examine various small parts.



SL-10

SL-15

USE

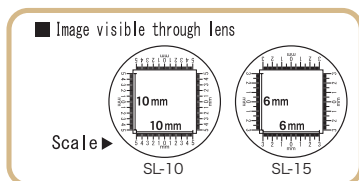
- For precision work

MATERIAL

- Lens: Glass
- Case: ABS

FEATURES

- Reticle with full width scale, can be used to measure dimensions and diameter of objects
- Reticle can be removed to use as standard loupe
- The cup-shaped allows the lens to maintain the proper distance by simply placing it over the object to be viewed



Order No.	Model No.	Lens Diameter (mm)	Magnification	Scale Graduation	Measurement Range (mm)	Weight
011274	SL-10	28	10x	0.2mm	±5	20g
011275	SL-15	20	15x	0.1mm	±3	15g

LOUPE

For precision work.
Use to examine various small parts.



L-10

L-15

USE

- For precision work

MATERIAL

- Lens: Glass
- Case: ABS

FEATURES

- Object is to be directly placed on and be in focus automatically
- Acrylic cover for brighter view

Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
011284	L-10	30	10x	25g
011285	L-15	21	15x	20g

HIGH MAGNIFICATION LOUPE

For precision work.
Use to examine various small parts.



HL-10

USE

- For appraising microfilms and gemstones

MATERIAL

- Lens: Glass
- Case: PVC

FEATURES

- High magnification for precision work

Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
011276	HL-10	28	10x	38g
011277	HL-15	21	15x	30g

METAL MAGNIFIER

For precision work.
Use to examine various small parts.



(No.7020-W)



No.7020-W

USE

- For observing minerals, plant, insects, etc.

MATERIAL

- Lens: Glass
- Case: Brass, aluminum (No.7070)
Copper, zinc (No.7020-W)

FEATURES

- Useful tool in factories and offices
- Slide-in-storage for easy-to-carry

Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
011279	No.7070	20	3x·4x·5x	40g
011280	No.7020-W	8·13	10x·20x	35g

MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE



MAGNIFIER WITH MAGNETIC STAND ①

For precision work.
Use to examine various small parts.



USE

- For detailed work and inspection at factory

MATERIAL

- Lens: Glass
- Magnet: Ferrite magnet

FEATURES

- Flexible arm can be positioned as required
- Magnetic adsorption: 800N

Order No.	Model No.	Lens Diameter (mm)	Magnification	Base Dimensions (mm)	Weight
012876	SB-80K	100	2x	50 x 60 x 55	1.4kg

STAND MAGNIFIER ①

For precision work.
Use to examine various small parts.



USE

- For detailed work and inspection at factory

MATERIAL

- Lens: Glass
- Base: Cast iron

FEATURES

- Convenient use by both hands-free
- Flexible arm can be positioned as required

Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
011281	No.1650	90	2.5x	820g

STAND MAGNIFIER WITH CLIPS ①

For precision work.
Use to examine various small parts.



USE

- For detailed work and inspection at factory

MATERIAL

- Lens: Glass
- Base: Cast iron

FEATURES

- For soldering work

Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
011286	CS-65	65	2.5x	460g

MICROSCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE

