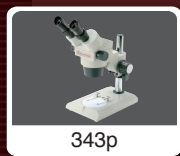


343p



343p



344p



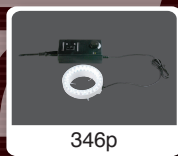
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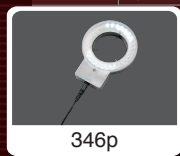
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345p



346p



346p



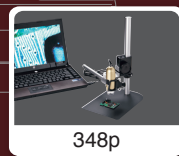
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347p



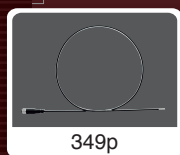
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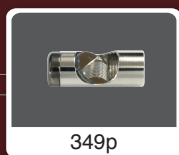
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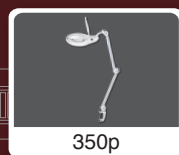
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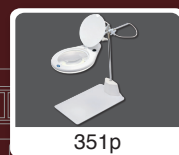
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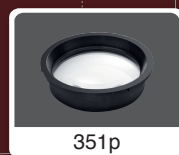
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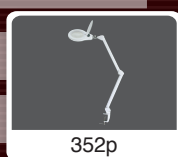
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351p



351p

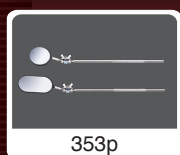


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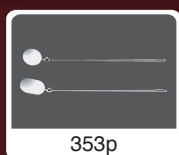
MICROSCOPE



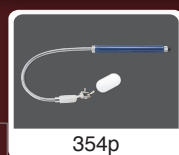
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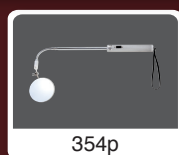
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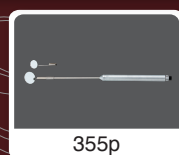
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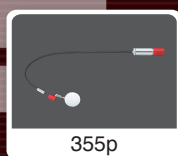
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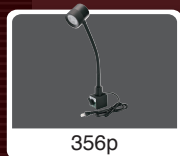
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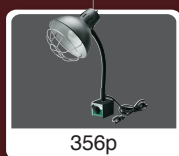
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355p



356p



356p



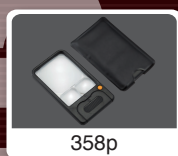
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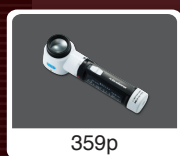
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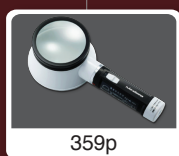
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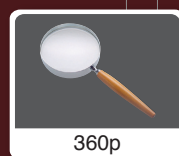
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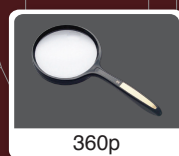
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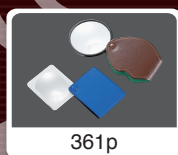
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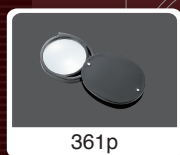
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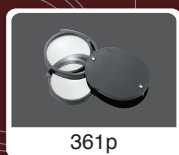
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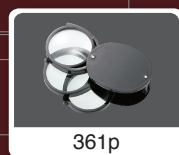
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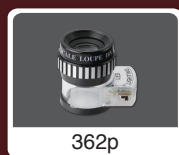
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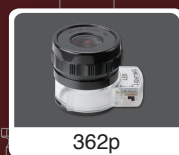
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361p



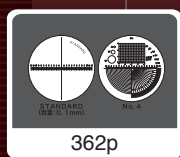
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362p



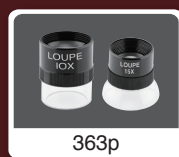
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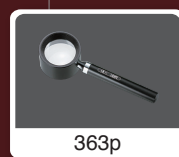
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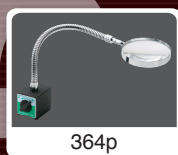
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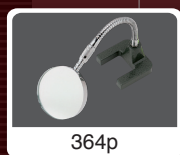
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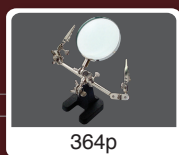
363p



364p



364p



364p

MICRO
SCOPEFIBER
SCOPE








MAGNIFIER

INSPECTION
MIRROR

LOUPE



MICROSCOPE SPECIFICATION SUMMARY

Product Name	ZOOM STEREO MICROSCOPE			VARIABLE POWER STEREO MICROSCOPE	VARIABLE POWER TURRET STYLE STEREO MICROSCOPE
Model No.	XTS2021	XTS-SP2	XZ-45N	XT-2040	XTDB-SP2N
Page Referred	343	343	344	344	345
					
Type	Zoom Type			Turret Type	
Magnification	6.5×~45× 13×~90×		10×~45×	20× 40×	10× 30×
Objective	0.65×~4.5× (Zoom Ratio 1:7)		1×~4.5× (Zoom Ratio 1:4.5)	2× 4×	1× 3×
Eyepiece	WF10× (FOV20mm) WF20× (FOV10mm)		WF10× (FOV20mm)	WF10× (FOV19mm)	WF10× (FOV20mm)
Working Distance	95mm		97mm	105mm	100mm
Eyepiece Angle	45°		60°	45°	
Eyepiece Width adj. Range	55~75mm		52~75mm	55~75mm	
Lighting	Built-in ●Epi-illumination (halogen bulb: 6V·15W) ●Transmitted illumination (5W fluorescent bulb)	Separately Sold			
Applicable Lighting (separately sold)	Not attachable	<div>STEREO MICROSCOPE RING ILLUMINATOR ⇒ P346</div> <div> ●Model No. L-54 Number of LED: 54pcs Illuminance Adjustment Function</div> <div> ●Model No. L-60T Number of LED: 60pcs Illuminance Adjustment Function</div>			
Mounting Size	—	Attachment M48 included	φ53mm	Attachment M48 included	
Base Dimensions	245×190×60mm	245×170×40mm	255×200×25mm	295×285×33mm	255×200×25mm
Diopter adj. Range	±5diopter				
Stand	Rack & Pinion	Pole Stand (φ 25mm)	Pole Stand (φ 32mm)	Pole Stand (φ 30mm)	Pole Stand (φ 32mm)

NSK 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

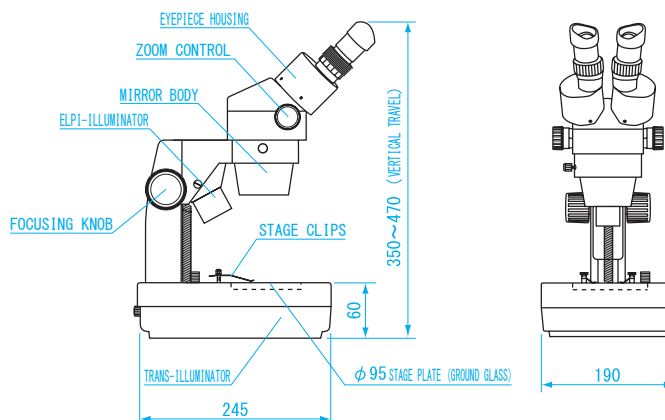
- Zoom type stereoscopic microscope
- With epi-illumination (halogen) and transmitted illumination (fluorescent)
- two pcs of stage plates (flossed glass and reversible black & white plastic plate)

SPECIFICATIONS

- Rated Voltage: AC100V

● DIMENSIONS

Units : mm



■ 5W FLUORESCENT BULB FOR TRANSMITTED ILLUMINATION

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

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	6.5~45× 13~90×	0.65~4.5× (Zoom Ratio1:7)	WF10× (FOV20mm) WF20× (FOV10mm)	95mm	Main body vert. position control	55~75mm	45°	±5 diopter	Rack & Pinion	Epifluorescence -6V-15W Transillumination -5W	5.7kg

NSK ZOOM STEREO MICROSCOPE

Zoom type that is ideal for enlarging and inspecting precision parts



USE

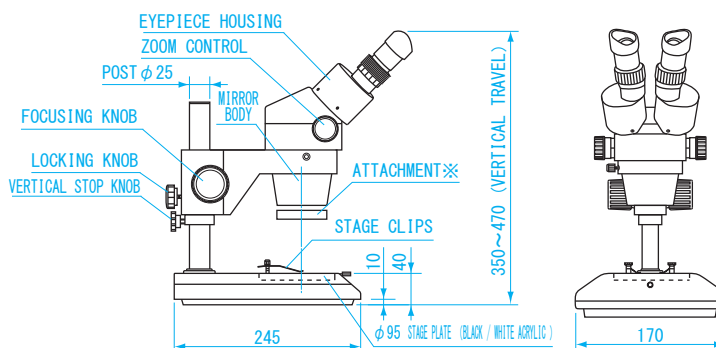
- Ideal for inspection of semiconductors, electronics, and precision parts

FEATURES

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

● DIMENSIONS

Units : mm



※ With optional lighting installed

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	6.5~45× 13~90×	0.65~4.5× (Zoom Ratio1:7)	WF10× (FOV20mm) WF20× (FOV10mm)	95mm	Main body vert. position control	55~75mm	45°	±5 diopter	Pole stand	5.4kg



NSK ZOOM STEREO MICROSCOPE

Zoom type that is ideal for enlarging and inspecting precision parts

0

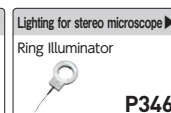
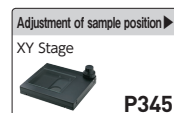


USE

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

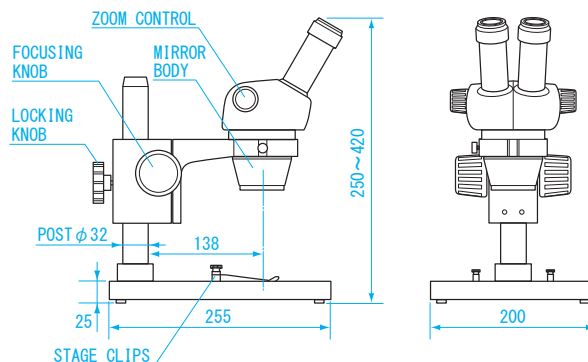
FEATURES

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



● DIMENSIONS

Units : mm



Order No.	Model No.	Magnification	Objective	Eye Piece	Working Distance	Focus Distance	Eye Width Adjustment	Eye Piece Inclination	Diopter Adjustment Range	Stand	Weight
140102	XZ-45N	10~45×	1~4.5× (Zoom Ratio: 4.5)	WF10× (FOV 20mm)	97mm	Main body vert. position control	52~ 75mm	60°	±5 diopter	Pole stand	3.6kg

NSK VARIABLE POWER STEREO MICROSCOPE TURRET TYPE

Two magnifications with switchable objective lens

0

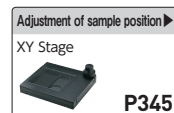
MICROSCOPE

FIBER
SCOPE

MAGNIFIER

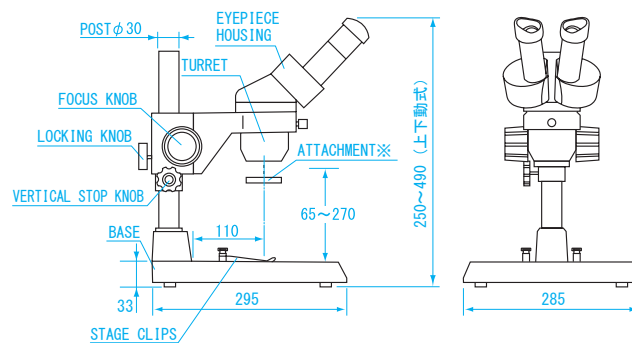
INSPECTION
MIRROR

LOUPE



● DIMENSIONS

Units : mm



※ With optional lighting installed

USE

- Ideal for continuous inspection of components of similar size

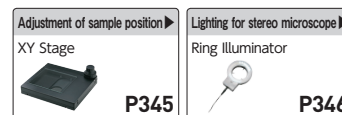
FEATURES

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

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	20× 40×	2× 4×	WF10× (FOV19mm)	105mm	Main body vert. position control	55~ 75mm	45°	±5 diopter	Pole stand	3.7kg

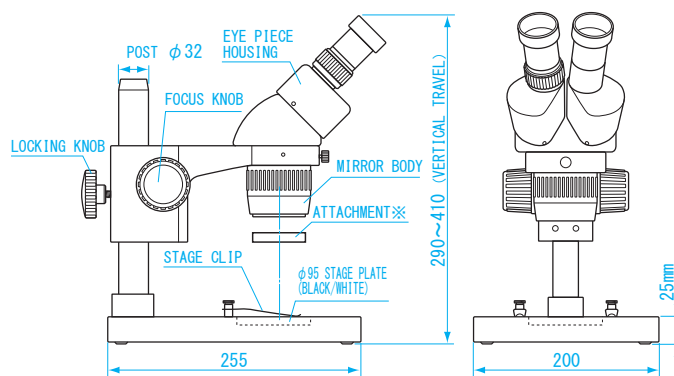
NSK VARIABLE POWER STEREO MICROSCOPE TURRET TYPE

Two magnifications with switchable objective lens



DIMENSIONS

Units : mm



※ With optional lighting installed

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)

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	10 × 30 ×	1 × 3 ×	WF10 × (FOV 20mm)	100mm	Main body vert. position control	55~ 75mm	45°	±5 diopter	Pole stand	3.6kg

NSK XY MICROSCOPE STAGE

Adjustment dials for each vertical and horizontal to finely adjust sample position



MICROSCOPE

FIBER SCOPE

MAGNIFIER

INSPECTION MIRROR

LOUPE

USE

- Adjustment of the sample position

MATERIAL

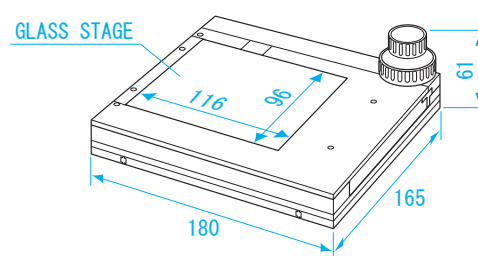
- Body: Rolled steel
- Stage: Glass
- Adjustment dial: Plastic

FEATURES

- XY stage allows easy and precise adjustment of sample position
- Includes no-slip sheet (rubber)
- The guide on the X-Y stage can be removed for use when the stage does not fit the diameter of the microscope base opening

DIMENSIONS

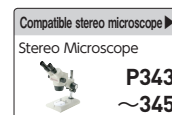
Units : mm



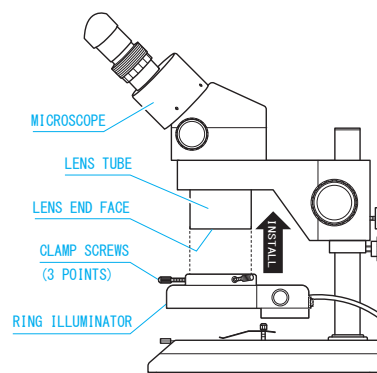
Order No.	Model No.	Maximum sample load	Stage range of motion (mm)	Compatible microscope base opening diameter (mm)	Weight
140023	STD-7050	Less than 1.5kg	Y50 × X70	φ95	1.55kg

LED STEREO MICROSCOPE RING ILLUMINATOR

LED TYPE



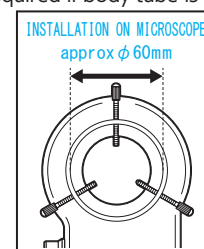
● Example of mounting



● How to mount

Tighten three screws to fix illuminator on microscope body

※ Adapter is required if body tube is not a cylinder



Mounting dimensions applies to L-54, L-60T : ϕ 60mm

USE

- Compact and lightweight lighting for stereo microscope

FEATURES

- For mounting on microscopes with a bottom tube diameter of 60mm and less
- High intensity, long life LED light
- Illuminance adjustment function
- Applicable product: XTS-SP2, XZ-45N, XT-2040, XTDB-SP2N

Order No.	Model No.	Rated Voltage	Rated Power	Rated Frequency
140200	L-54	AC100V ~ 240V	6W	50-60Hz
Number of LED		LED Brightness	Weight	
54 pcs		2500mcd	400g	

LED Type with lighting control quadrant-ly



USE

- Compact and lightweight lighting for stereo microscope

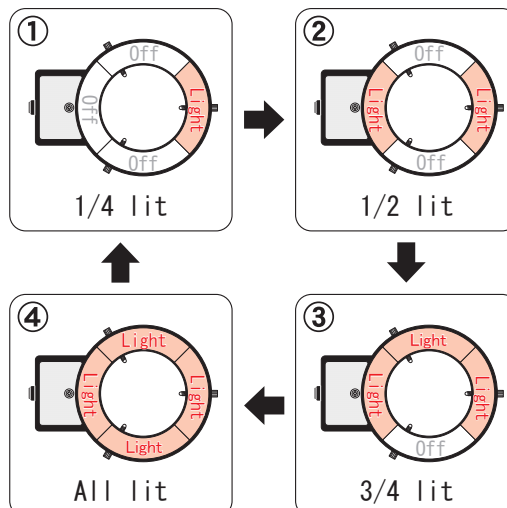
FEATURES

- For mounting on microscopes with a bottom tube diameter of 60mm and less
- High intensity, long life LED light
- Illuminance adjustment function
- Lighting part is switchable in four different patterns quadrant-ly (see pictures at right)
- Applicable product: XTS-SP2, XZ-45N, XT-2040, XTDB-SP2N

Order No.	Model No.	Rated Voltage	Rated Power	Rated Frequency	Output Voltage
140205	L-60T	AC100V ~ 120V	6.5W	50-60Hz	DC12V
Output Current		Number of LED	LED Brightness	Weight	
400mA		60 pcs	1500mcd	260g	

■ L-60T lighting Pattern

Switchable in four different patterns of lighting depending on the purpose



NSK DIGITAL MICROSCOPE **NEW!**

0

Enlarged image to be monitored by PC



USE

- Suitable for image enlargement inspection.
(mechanical parts, metal, fiber, paper, resin, biological use, cracks, surface deterioration and corrosion, etc.)
- The inspection image and result are able to be shared in real-time.
Suitable for presentation and for meetings.

FEATURES

- For image enlargement to be monitored and inspected by PC.
- Includes a mount stand for quick focus adjustment
- Simple set-up process

SPECIFICATIONS

- Magnification: Approx. 200 x (27 inch PC monitor)
- Maximum Size (pause): 2,592 × 1,944 pixels / connected to PC
- Power: Supplied from USB Port
- Supported OS: Windows 7, 8, 8.1, 10 Mac OS 10.12 Sierra or later
- Measurement: Microscope: $\phi 37 \times 110 \text{ mm}$
Mount stand: 170 × 160 × 120 mm

ACCESSORIES

- Software* ● Mount stand (self assembled)
- *Includes Simple measurement functionality

Order No.	Model No.	Measuring Range [dia.] (mm)	5 million pixels	Frame Rate	Interface	Light Source	Weight
NEW! 140167	MMS-500	1/3.2CMOS	5 million pixels	30 frames / sec.	USB 2.0	White color LED x 8	Microscope : 100g Mount stand : 520g

NSK DIGITAL MICROSCOPE WITH LCD MONITOR **NEW!**

0

With LCD monitor, useful at the PC-less work locations.

USE

- Suitable for image enlargement inspection.
(mechanical parts, metal, fiber, paper, resin, biological use, cracks, surface deterioration and corrosion, etc.)
- The inspection image and result are able to be shared in real-time.
Suitable for presentation and for meetings.

FEATURES

- Runs coded and cordless with a rechargeable battery.
- With a LCD monitor for a quick operation
- Connectable to TV and PC monitor
- With a simple measurement functionality (when connected to PC)

SPECIFICATIONS

- Magnification: Approx. 200 x (24 inch PC monitor) Approx. 30 x (own monitor)
- Maximum Size (pause): 4,032 × 3,024 pixels / SD card inserted 640 × 480 pixels / connected to PC
- Power: DC 3.7V 1,050mAh / Lithium ion battery
- Running Time: Approx. 150 min. (battery use)
- Battery Recharge: Approx. 2 hrs.
- Recording Media: micro SD card (Maximum 32 GB)
- Supported OS: Windows 7, 8, 8.1, 10
Mac OS 10.6 Snow Leopard or later
- Measurement: 230 × 145 × 105 mm

ACCESSORIES

- Software* ● Cleaning cloth ● Monitor cable ● USB cable
- *Includes Simple measurement functionality
- AC adaptor (Input: 100-240V, 50/60Hz; Output: 5V, 1A) ● Battery

MICRO
SCOPEFIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE

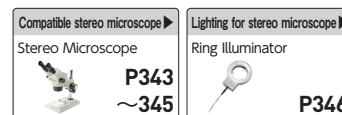


Order No.	Model No.	Measuring Range [dia.] (mm)	Resolution	Frame Rate	Interface	Light Source	Weight
NEW! 140168	MMS-500LCD	1/3.2CMOS	5 million pixels	30 frames / sec.	USB 2.0	White color LED x 8	744g (incl. battery)

NSK USB CAMERA FOR MICROSCOPE

Easy installation. Image can be confirmed with your PC.
Also can be mounted on any other microscope brand.

0



USE

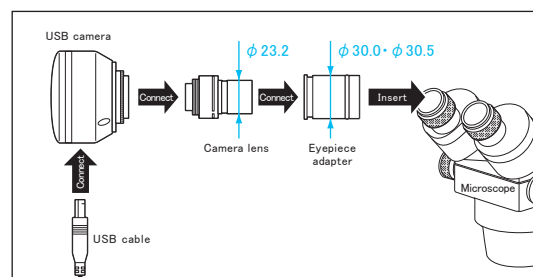
- Camera can be inserted into microscope eyepiece

FEATURES

- Low price USB camera for microscope
- 1,300,000 pixels
- OS support: Windows XP (SP3), Vista, 7, 8.1, 10

ACCESSORIES

- Viewer Software
- Eyepiece adapter
($\phi 23.2 \rightarrow \phi 30.0\text{mm} \cdots 1\text{pc}$ $\phi 23.2 \rightarrow \phi 30.5\text{mm} \cdots 1\text{pc}$)



Order No.	Model No.	Image Sensor	No. of Pixels	Frame Rate	Output	Power	Weight
140022	MU-130	1/3.2 CMOS	1,300,000 pixels	30 frame / sec	USB 2.0	Provided from USB port	175g

NSK MINI MICROSCOPE WITH BASE

Resolution 1,300,000 pixels, high image quality. Still image picture and video image can be saved.

0

MICROSCOPE

FIBERSCOPE

MAGNIFIER

INSPECTION MIRROR

LOUPE

USE

- Ideal for machine parts, metal, textiles, paper, plastic, biological tissues, cracks and corrosion inspection
- Still image picture and video image can be saved

FEATURES

- Simple measurement functionality. With calibration correction function.
- Included stand for easy focus and alignment
- Shutter switch on body for taking pictures without using mouse
- Polarized filter (PL) to prevent diffuse reflections and sharpen image
- Image color close to the natural color
- Image processing speed is improved, smooth drawing without flicker
- Quality image in the darker areas
- Supported OS: Windows XP, Vista, 7, 8, Mac OSX 10.5



Order No.	Model No.	Type	Imaging Sensor	Resolution	Magnification	Light
140169	MMS-130PLM2	With PL filter	1/4 CMOS sensor	1280×1024 pixels (SXGA) approx. 1,300,000 pixels	Approx. 10~230×	Internal LED 8 pcs

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

NSK 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	Resolution	View Angle	Depth of Focus	Power	AV Output
140210	MIS-5510G	$\phi 5.5\text{mm} \times (\text{L}) 1\text{m}$	3.5 inch	300,000 pixels	Approx. 67°	Approx. 20-50mm	DC5V	NTSC/PAL
Lighting	Still Image Pixels	Video Image Pixels	File Format	Recording Media	Dimensions (mm)	Weight		
White LED (Dimming)	640 × 480 pixels	640 × 480 pixels	JPEG (still image) AVI (video image)	SD card (less than 4 GB)	Approx. L210 × W100 × H45	410g		

NSK OPTIONAL ACCESSORIES FOR MIS SERIES

NEW!

(C-MIS-5510G)

■ Camera for MIS

USE

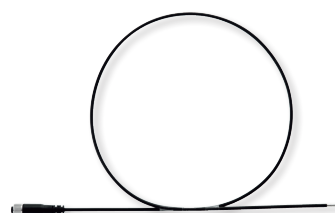
- Optional camera for MIS series bore scope (IP66 equivalent)

MATERIAL

- $\phi 3.9$ model: Plastic cable
- $\phi 5.5$ model: Stainless cable

FEATURES

- $\phi 3.9$ model: Thin and flexible cable is ideal for inspection of narrow places
- $\phi 5.5$ model: High rigidity stainless cable is ideal for inspection of harsh places



C-MIS-3910G

Order No.	Model No.	Cable size	Cable type	Resolution	Number of Pixels	Focal Length (mm)
140211	C-MIS-3910G	$\phi 3.9\text{mm} \times 1\text{m}$	Soft tube	300,000 pixels	640×480	Approx. 20~50
140212	C-MIS-3920G	$\phi 3.9\text{mm} \times 2\text{m}$	Soft tube	300,000 pixels	640×480	Approx. 20~50
140213	C-MIS-3930G	$\phi 3.9\text{mm} \times 3\text{m}$	Soft tube	300,000 pixels	640×480	Approx. 20~50
NEW! 140219	C-MIS-5510G	$\phi 5.5\text{mm} \times 1\text{m}$	Semi-hard tube	300,000 pixels	640×480	Approx. 20~50
140214	C-MIS-5520G	$\phi 5.5\text{mm} \times 2\text{m}$	Semi-hard tube	300,000 pixels	640×480	Approx. 20~50
140215	C-MIS-5530G	$\phi 5.5\text{mm} \times 3\text{m}$	Semi-hard tube	300,000 pixels	640×480	Approx. 20~50

■ Side view adapter for MIS series

USE

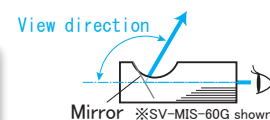
- Side view adapter for monitor type industrial borescope

MATERIAL

- Copper plated (excluding mirror), brass

FEATURES

- Install on tip of borescope to change viewing angle



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 BATTERY FOR MIS

USE ● Lithium battery for monitor type industrial bore scope

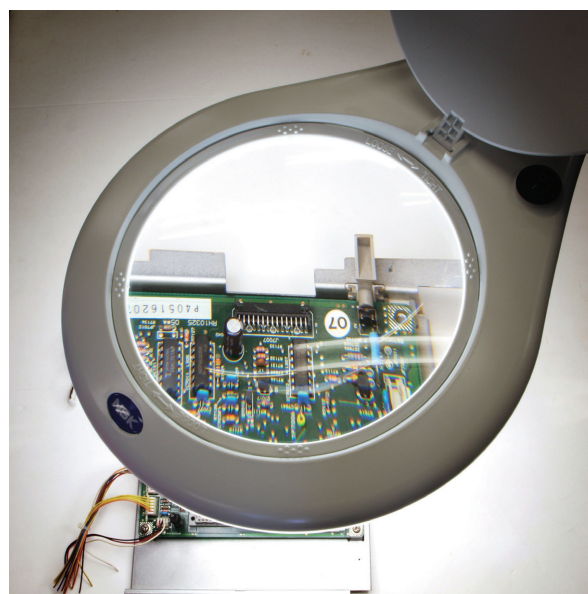
Order No.	Model No.	Rated Voltage	Rated Capacity	Weight
140216	B-MIS-37G	DC3.7V	1,880mAh	42g

NSK CLAMP TYPE SWING ARM MAGNIFIER LED LIGHT

Durable, long-life LED light



LS2-175A



For precision assembly and inspection



Anti-reflective cover to soften the light for less reflection

USE

- For precision assembly and inspection

MATERIAL

- Lens: Glass
- Body: Steel, plastic

FEATURES

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

SPECIFICATIONS

- Rated voltage: AC100V
- Rated frequency: 50/60Hz
- Rated power consumption: 15W
- LED color temperature: Approx. 5,000K <daylight white>
- Luminous intensity: 5,500lx (with 250mm distance from lens to object)
- Number of LED: 84 pcs
- Clamping range: Approx. 10~60mm
- Power cable length: 1.8m

ACCESSORIES

- Lens cleaning cloth

Order No.	Model No.	Arm Length	Lens Diameter (mm)	Magnification	Weight
140121	LS2-175A	Lower: 435 Upper: 425	φ 170	2 ×	3.4kg
140124	LS4-150A	Max: 870	φ 140	4 ×	3.6kg

MICRO
SCOPE

FIBER
SCOPE

MAGNIFIER

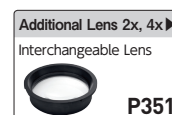
INSPECTION
MIRROR

LOUPE



NSK DESK STAND TYPE MAGNIFIER WITH LED LIGHT

Durable, long-life LED light



LS2-175S

USE

- For precision assembly and inspection

MATERIAL

- Lens: Glass
- Body: Steel, plastic

FEATURES

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

SPECIFICATIONS

- Rated voltage: AC100V
- Rated frequency: 50/60Hz
- Rated power consumption: 15W
- LED color temperature: Approx. 5,000K <daylight white>
- Luminous intensity: 5,500lx (with 250mm distance from lens to object)
- Number of LED: 84 pcs
- Power cable length: 1.8m

ACCESSORIES

- Lens cleaning cloth
- Hexagonal bar wrench

Order No.	Model No.	Product Dimensions (mm)	Lens Diameter (mm)	Magnification	Weight
140122	LS2-175S	Total height 430	φ 170	2 ×	5.1kg
140125	LS4-150S		φ 140	4 ×	5.3kg

MICROSCOPE

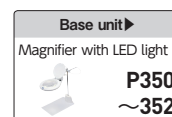
FIBERSCOPE

MAGNIFIER

INSPECTION MIRROR

LOUPE

NSK INTERCHANGEABLE LENS FOR MAGNIFIER LED LIGHT LS SERIES



SL-4

USE

- Interchangeable lens for magnifier LED light LS series

MATERIAL

- Hard glass

FEATURES

- Optional lens for Magnifier with LED light

SPECIFICATIONS

- Applicable product No.: Clamp type LS2-175A, LS4-150A
Deskstand type LS2-175S, LS4-150S

Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
140126	SL-2	178	2 ×	0.9kg
140123	SL-4	150	4 ×	1.1kg

NSK CLAMP TYPE MAGNIFIER DIMMABLE LED LIGHT

0

Magnifier with dimmable LED light.

Brightness is dimmable depending on environment and objects.



For precision assembly and inspection



Brightness is dimmable by dimmer control function

USE

- For precision assembly and inspection

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
- Protection cover included
- Clear glass lens does not affect color of view

SPECIFICATIONS

- POWER (Using included AC Adapter)
- Power consumption: Approx. 100W (Max. brightness)
- Luminous intensity: Approx. 3100lx (Max. brightness and 250mm distance from lens to object)
- LED color temperature: Approx. 5000K (daylight white)
- Number of LED: 60
- Room temperature: 0~40°C
- Clamping range: Approx. 10~60mm
- AC adapter (Approx. 1.5m), clamp

Order No.	Model No.	Arm length (mm)	Lens Diameter (mm)	Magnification	Weight
140127	LS2-125AD	Lower: 480 Upper: 490 Max.: 700	φ 116	2 ×	2.3kg

MICROSCOPE

FIBERSCOPE

MAGNIFIER

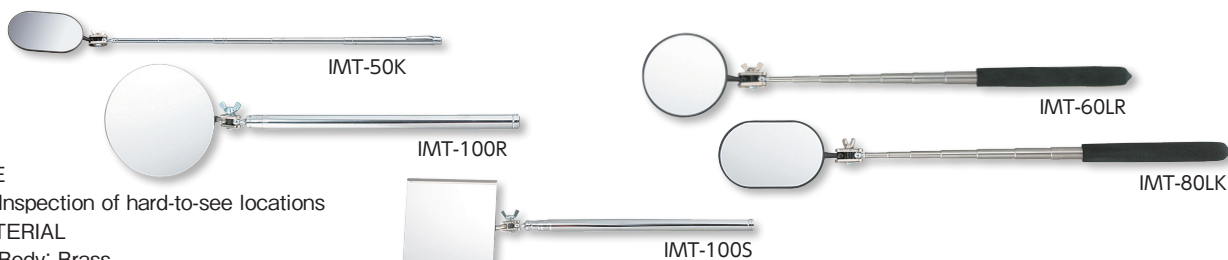
INSPECTION MIRROR

LOUPE



TELESCOPING INSPECTION MIRROR

Suitable for inspection of hard-to-see locations



USE

- Inspection of hard-to-see locations

MATERIAL

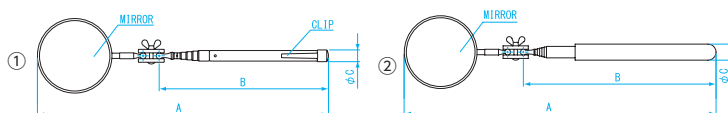
- Body: Brass
(IMT-60LR, IMT-80LK: Stainless steel)
- Mirror: Glass

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 $\phi 20$	Approx. 525	Approx. 130~475	10	①	40g
011150	IMT-30R	Round $\phi 30$	Approx. 535		10	①	40g
011160	IMT-60R	Round $\phi 60$	Approx. 560		9	①	63g
011170	IMT-50K	Oval 50×25	Approx. 555	Approx. 130~475	10	①	45g
011185	IMT-85S	Square 100×85	Approx. 745	Approx. 245~610	13	①	200g
011186	IMT-100S	Square 100×100	Approx. 745			①	200g
011187	IMT-100R	Round $\phi 100$	Approx. 745			①	200g
011181	IMT-80LK	Oval 80×50	Approx. 945	Approx. 160~840	14	②	100g
011161	IMT-60LR	Round $\phi 60$	Approx. 925			②	100g

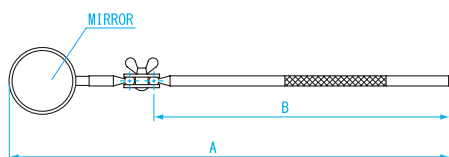
INSPECTION MIRROR

Suitable for inspection of hard-to-see locations



● DIMENSIONS

Units : mm



USE

- For inspection in hard-to-see location

MATERIAL

- Body: Steel
- Mirror: Glass

FEATURES

- Mirror firmly held for easy inspection
- With mirror protective film

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

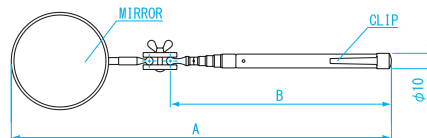
MAGNIFYING INSPECTION MIRROR WITH TELESCOPING

Suitable for inspection of hard-to-see locations



● DIMENSIONS

Units : mm



USE

- For inspection in hard-to-see location

MATERIAL

- Body: Brass
- Mirror: Glass

FEATURES

- Extendable reach and easy to carry
- Mirror magnifies objects for better visibility
- With mirror protective film

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	2	40g
011196	IMTR-30R	Round $\phi 30$	Approx. 535		2	40g
011197	IMTR-60R	Round $\phi 60$	Approx. 560	Approx. 145~475	1.5	60g
011198	IMTR-50K	Oval 50×25	Approx. 555	Approx. 130~475	2	45g
011199	IMTR-80K	Oval 80×50	Approx. 575	Approx. 145~475	1.5	60g

MICROSCOPE

FIBERSCOPE

MAGNIFIER

INSPECTION MIRROR

LOUPE



INSPECTION MIRROR WITH LIGHT - TYPE M (LED/ NIPPLE BULB) **NEW!** (LMF-M-LED)

Suitable in dim and hard-to-see locations.
LED bulb model is also available.



USE

- For inspection, repair and check-up in poorly lit areas

MATERIAL

- Flexible stem can be bent to any angle
- Mirror can be removed for use as flexible light
- LED bulb model is also available for stronger luminosity (LFM-M-LED)

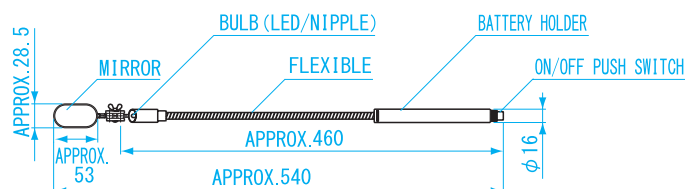
- With mirror protective film

POWER

- Two AA batteries included for testing

● DIMENSIONS

Units : mm



■ LED 3V BULB

Order No.	Model No.
011109	E10LED

Order No.	Model No.	Mirror Shape (mm)	Bulb type	Weight
NEW! 011107	LMF-M-LED	Oval 50 × 25	LED 3V bulb/ E10LED (3V 90mA)	180g
011100	LMF-M		Nipple bulb (2.2V 0.25A)	180g

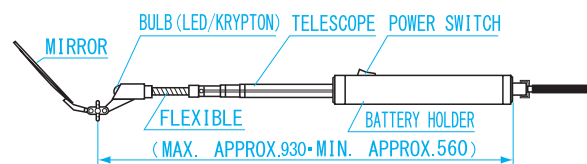
INSPECTION MIRROR WITH LIGHT - TYPE L (LED/ KRYPTON BULB) **NEW!** (LMF-L-LED)

Suitable in dim and hard-to-see locations.
LED bulb model is also available.



● DIMENSIONS

Units : mm



■ LED 3V BULB

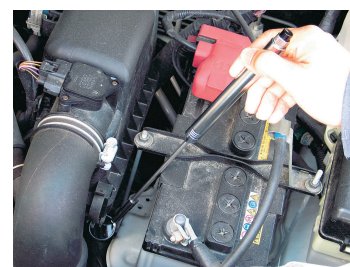
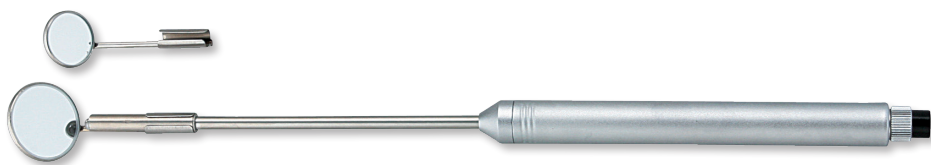
Order No.	Model No.
011109	E10LED

Order No.	Model No.	Mirror Shape (mm)	Bulb type	Weight
NEW! 011108	LMF-L-LED	Round φ 100	LED 3V bulb/ E10LED (3V 90mA)	420g
011103	LMF-L		Krypton bulb (2.4V 0.75A)	420g



INSPECTION MIRROR WITH LED LIGHT

Suitable in dim and hard-to-see locations.



USE

- Inspection around and behind obstacles and in poorly lit areas

MATERIAL

- Stalk: Stainless steel
- Grip: Brass (Silver finish)

FEATURES

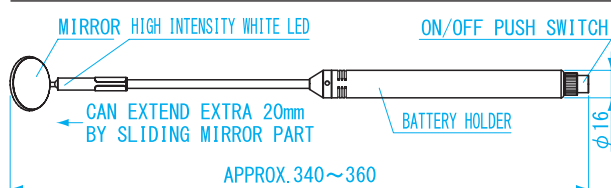
- LED light for high visibility
- Inspection mirror: 2 pcs ($\phi 20\text{mm}$, $\phi 30\text{mm}$)
- With mirror protective film

POWER

- Two AA batteries included for testing

● DIMENSIONS

Units : mm

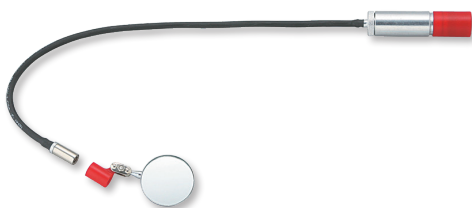


Order No.	Model No.	Operating Temperature	Luminance	Weight
011105	LM-340	- 10 ~ 40°C	10000mcd	126g

FLEXIBLE LIGHT WITH MAGNET

Suitable in dim and hard-to-see locations.

0



Inspection mirror ($\phi 38\text{mm}$)
can be inserted on end for
inspection



White LED for
high intensity
and long life
Magnet tip to
pick up small parts



Bottom magnet for
hand free use

Flexible tube
Length 350mm

USE

- Locate and pick up small fasteners, temporary lighting for test, maintenance

MATERIAL

- Flexible stem: Stainless steel

FEATURES

- With attached inspection mirror ($\phi 38\text{mm}$)
- LED for long usage life
- Adheres to steel surfaces for hand free operation
- Flexible stem conforms to any shape
- Magnet can also be used as pick-up tool
- Tip diameter: Approx. 9mm

POWER

- Three LR44 (alkaline button cell) included for testing

● Vehicle maintenance



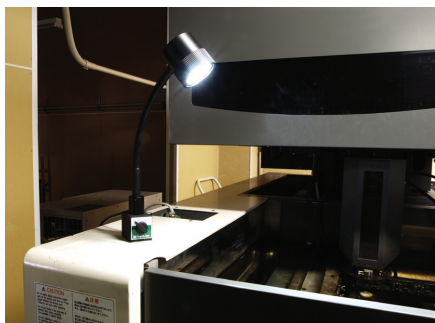
● Microscope light



Order No.	Model No.	Continuous Lighting	Magnetic force : approx. 600N	Weight
011092	MFL-350M	Approx. 12 hours	Tip 0.5N Bottom 10N	150g

MAGNETIC STAND LED WORK LIGHT

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
- Magnetic adsorption: Approx. 600N
- Power cord length: Approx. 1m
- Product dimensions: Approx. W70×H475×D80mm



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

MAGNETIC STAND WORK LIGHT

For second lighting where dim and hard-to-see.
Bulb guard cover for protection included.



USE

- For second lighting for better view

MATERIAL

- Body: Steel, brass

FEATURES

- ON/OFF lever for easy removal of magnet
- Height of light is adjustable by flexible shaft
- Bulb guard cover for protection included

SPECIFICATIONS

- Magnetic adsorption: Approx. 600N
- Power cable length: Approx.
- Product dimensions: Approx.
- Applicable bulb: 60W and base shape (not included)
※ Bulb not included



FL bulb and LED bulb
(base shape : E26) also attachable

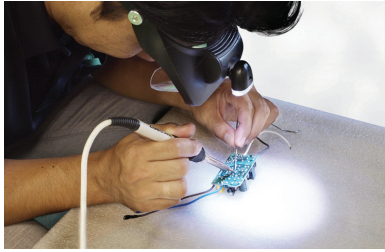


※ Bulb not included

Order No.	Model No.	Base Dimensions (mm)	Rated Voltage	Rated Frequency	Weight
011094	MFR-60	50 × 55 × 63	100V	50/60Hz	1.7kg

For hands-free.

Head loupe with LED light for best work efficiency.



USE

- Assembly of small parts and inspection

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	1.2 × , 1.8 × , 2.5 × , 3.5 ×	140g

HEAD LOUPE WITH ADJUSTABLE LIGHT AND INTERCHANGEABLE LENS

For hands-free.

Loupe with light for best work efficiency.

USE

- Assembly of small parts and inspection

MATERIAL

- Lens : Acrylic resin

FEATURES

- Adjustable belt to stay still on head to free both hands for detailed work
- Light angle adjustable to up, down, left and right to light up workpiece
- With four interchangeable lenses to adjust magnification

SPECIFICATIONS

- Battery life: Approx. 3.5hrs. with alkaline battery
- Bulb life: Approx. 800hrs.

POWER

- Two AA batteries (not included)

ACCESSORIES

- Lens 4 pcs
- Lens cleaning cloth
- Bulb cap
- Light bulb (attached)



Order No.	Model No.	Product Name	Magnification	Lens Dimension (mm)	Weight
111230	HMG-4L	Head Loupe	1.2 × , 1.8 × , 2.5 × , 3.5 ×	50 × 103	116g
111231	HMG-4LB	Replacement bulb for HMG-4L	—	—	2g
111232	1.2 ×	Replacement lens for HMG-4L	1.2 ×	50 × 103 × 4	17g
111233	1.8 ×	Replacement lens for HMG-4L	1.8 ×	50 × 103 × 6	26g
111234	2.5 ×	Replacement lens for HMG-4L	2.5 ×	50 × 103 × 8	30g
111235	3.5 ×	Replacement lens for HMG-4L	3.5 ×	50 × 103 × 12	42g



MAGNIFIER WITH HEAD BAND

For best work efficiency by hands-free



RX-59



USE

- Assembly of small parts, inspection

MATERIAL

- Lens: Acrylic resin
- Body: ABS resin

FEATURES

- Adjustable belt to stay still on head to free both hands for detailed work
- Light weight frame with velcro strap

Order No.	Model No.	Magnification	Lens Dimension (mm)	Weight
011252	RX-58	2.5×	190×260×45	100g
011253	RX-59	1.5×, 2×, 3×		100g



LED ILLUMINATED POCKET SIZE MAGNIFIER



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 × 54	3 ×, 5 ×, 7 ×	107	38g

LED ILLUMINATED POCKET SIZE MAGNIFIER

10× magnification loupe with power-saving LED light



USE

- Magnifier with LED light

MATERIAL

- Lens (external): Glass
- Lens (Internal): Acrylic

FEATURES

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

POWER

- Two C batteries (not included)



Order No.	Model No.	Lens Diameter (mm)	Magnification	Length (mm)	Weight
111238	M-100II	30	10×	180	90g

LED ILLUMINATED POCKET SIZE MAGNIFIER

2× magnification loupe with power-saving LED light



USE

- Magnifier with LED light

MATERIAL

- Lens: glass

FEATURES

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

POWER

- Two C batteries (not included)



Order No.	Model No.	Lens Diameter (mm)	Magnification	Length (mm)	Weight
111239	M-320II	80	2×	235	194g

MICROSCOPE

FIBERSCOPE

MAGNIFIER

INSPECTION MIRROR

LOUPE





LED ILLUMINATED POCKET SIZE MAGNIFIER

0

Durable 10× & 15× 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	10×	105	41g
111237	LL-15	20	15×		49g

MAGNIFIER WITH WOODEN HANDLE

For general use as inspecting knife edge and various small parts



USE

- Hand magnifier

MATERIAL

- Lens: Glass

FEATURES

- Wooden handle
- Scratch-resistant glass lens

Order No.	Model No.	Lens Diameter (mm)	Magnification	Length (mm)	Weight
011264	No.1430	75	2.5×	185	129g

MAGNIFIER WITH PLASTIC HANDLE

0

For general use as inspecting knife edge and various small parts



No.7507

USE

- Hand magnifier

MATERIAL

- Lens: Acrylic resin

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	2×・4×	185	55g
011267	No.7515	90	2×・4×	210	86g



FOLDING POCKET MAGNIFIER

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	50×40	3.5×·5×	24g
011269	No.3122-P	φ65	2.5×·4×	21g

FOLDING POCKET MAGNIFIER

For general use as inspecting knife edge and various small parts



No.7910



No.7920



No.7930

USE

- Slide type magnifier

MATERIAL

- Lens: Glass

FEATURES

- Slide-in-storage for easy-to-carry
- For general use

Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
011270	No.7910	36	4×	30g
011271	No.7920		4× 2 pcs	50g
011272	No.7930		4× 3 pcs	50g

MICRO
SCOPE

FIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE



NSK LED LIGHT SCALE LOUPE

Suitable in dimly-lit place by LED light

0



LSL-26

LSL-35

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

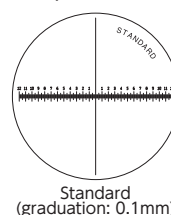
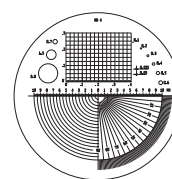
ACCESSORIES

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

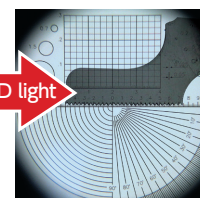
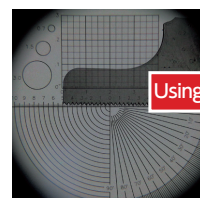
POWER

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

Scale plate

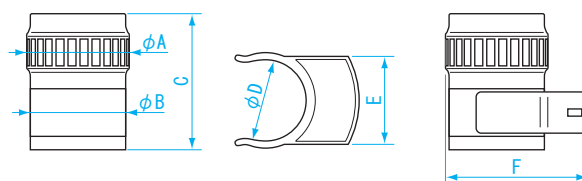
Standard
(graduation: 0.1mm)

No.4



Using LED light

● 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	10 ×	45g
140142	LSL-35		73g

MICRO
SCOPEFIBER
SCOPE

MAGNIFIER

INSPECTION
MIRROR

LOUPE

NSK LED LIGHT FOR LEDLIGHT SCALE LOUPE

0



HOW TO MOVE



L-26

USE

- Single light for LED Light scale loupe

FEATURES

- LED light that is included in LED light scale loupe (LSL-26, LSL-35)

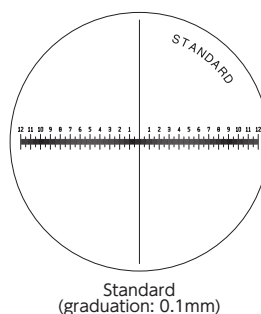
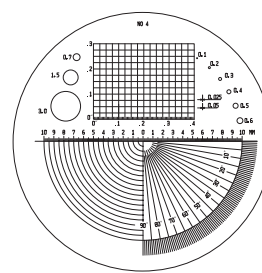
POWER

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

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

NSK SCALE PLATE FOR LED LIGHT SCALE LOUPE

0

Standard
(graduation: 0.1mm)

No.4

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	LSL-26	3g
140148	S-35-4	No.4	LSL-35	4g
140149	S-35-S	Standard	LSL-35	4g



SCALE LOUPE

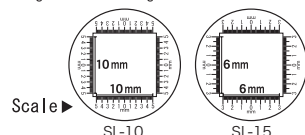
For precision work.
Use to examine various small parts.



SL-10

SL-15

■ Image visible through lens



USE

- Precision work, check edge of knife, use to examine various small parts

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

Order No.	Model No.	Lens Diameter (mm)	Magnification	Scale Graduation	Measurement Range (mm)	Weight
011274	SL-10	28	10×	0.2mm	±5	20g
011275	SL-15	20	15×	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	10×	23g
011285	L-15	21	15×	20g

HIGH MAGNIFICATION LOUPE

For precision work.
Use to examine various small parts.



HL-10

USE

- Check edge of knife, use to examine microfilm, jewelry appraisal etc.

MATERIAL

- Lens: Glass
- Case: PVC

FEATURES

- High magnification for precision work

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

METAL MAGNIFIER

For precision work.
Use to examine various small parts.



(No.7020-W)



No.7020-W

USE

- Examining minerals, observing insects, plant 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	3×·4×·5×	40g
011280	No.7020-W	8·13	10×·20×	60g

MICROSCOPE

FIBER SCOPE

MAGNIFIER

INSPECTION MIRROR

LOUPE



MAGNETIC STAND MAGNIFIER LENS WITH FLEXIBLE ARM



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
- Magnetice adsorption: 800N

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

STAND MAGNIFIER



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	2.5×	890g

STAND MAGNIFIER with Clips



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
- Helping hand with magnifier lens (with two crocodile clips)

Order No.	Model No.	Lens Diameter (mm)	Magnification	Weight
011286	CS-65	65	2.5×	520g

