

**NEW**

# Carton

by Japan Manufacturing



Carton Optical (Siam) Co., Ltd.  
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with requirements of ISO 9001 and ISO 14001



## GEM MICROSCOPES

BEST QUALITY & TECHNOLOGY



# GEM MICROSCOPE

# Carton

## Model DSZ-44 JS

### Specification Microscope for Jewelry

Magnification : 10x to 44x (field of view : 20 mm. To 4.5 mm.)

Objective Lenses : 1.0x to 4.4x (zoom ratio : 4.4:1)

Eyepieces : Wide Field 10x (DSW10x) (field number : 20)

Optical Body : 360° rotatable trinocular type, 45° inclined eyepiece tube

Working Distance : 90 mm.

Interpupillary Distance : 52 mm. to 75 mm.

Diopter Adjustment :  $\pm 5.6D - 7.2D$  on both eyepiece tubes &  $\pm 8D$  on verticle tube

Stand type : Regular type

Incident Light : Fluorescent Lamp 9W (YH9RZ) w/dimmer

LED 16 UV 405 Nm

Transmitted Light : LED Ring 48 w/dimmer

Fuse : 250V 2A

Stage plate : Darkfield 45 mm.

Base : 180 mm. x 265 mm.

Power cord : VDE cord

Electrical rating : 110-220V. 50Hz / 60Hz

Adj. stand : 0-10°

Hight : 400 mm.

Net Weight : 5.25 kgs.

Color : White

Accessories : Rubber eyeguards, Tension control pin,

Dust cover, Spare fuse, Tweezer type III

Plate Slide A 300 mm.

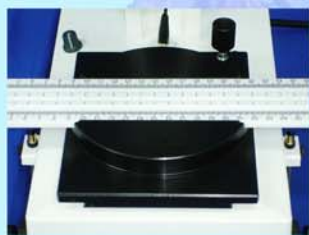
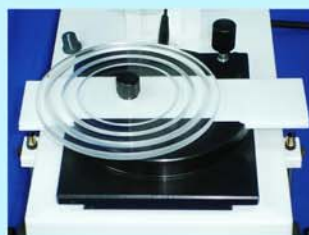


Plate Slide B 200 mm.

Circle Revolver Ø130 mm.



**DSZT-44  
Trinocular**



**DSZ-44  
Binocular**





# GEM MICROSCOPE

# Carton

## Model DSZ-44 JV

Magnification : 10x to 44x (field of view : 20mm. To 4.5 mm.)

Objective Lenses : 1.0x to 4.4x (zoom ratio : 4.4:1)

Eyepieces Wide Field : 10x (DSW10x F.N.20)(field number : 20)

Optical Body : 360° rotatable trinocular type, 45° inclined eyepiece tube

Working Distance : 90 mm.

Interpupillary Distance : 52mm. to 75mm.

Diopter Adjustment :  $\pm 5.6D - 7.2D$  on both eyepiece tubes &  $\pm 8D$  on verticle tube $\pm$

Stand type : Regular type

Front Light: Fluorescent Lamp 9 W Dulux S/E 840

Transmitted Light : Halogen lamp 12V 20-25W w/dimmer

Fuse : 250V 2A

Stage plate : Darkfield 42 mm.

Base : 180mm. x 265mm.

Power cord : VDE cord

Electrical rating : 110-220V 50Hz / 60Hz

Adj.stand : 0-10°

Hight : 400 mm.

Net Weight : 4.33 Kg.

Color : White

Accessories : Rubber eyeguards, Tension control pin,

Dust cover, Spare fuse, Tweezer type III

Single Light Guide (Halogen)



## Model DSZ-44 JH

Magnification : 10x to 44x (field of view : 20mm. To 4.5 mm.)

Objective Lenses : 1.0x to 4.4x (zoom ratio : 4.4:1)

Eyepieces : Wide Field 10x (DSW 10x)(field number : 20)

Optical Body : 360° rotatable trinocular type, 45° inclined eyepiece tube

Working Distance : 90 mm.

Interpupillary Distance : 52mm. to 75mm.

Diopter Adjustment :  $\pm 5.6D - 7.2D$  on both eyepiece tubes &  $\pm 8D$  on verticle tube

Stand type : Regular type

Incident Light : Fluorescent Lamp 9W (YH9RZ) w/dimmer

Front Light : Halogen lamp 12V 20-25W w/dimmer

Fuse : 250V 2A

Stage plate : Darkfield 42 mm.

Base : 180mm. x 265mm.

Power cord : VDE cord

Electrical rating : 110-220 V 50Hz / 60Hz

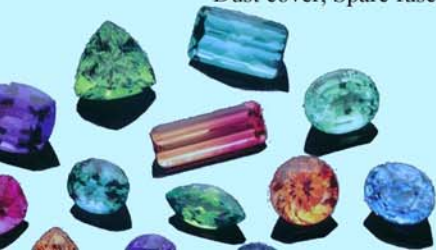
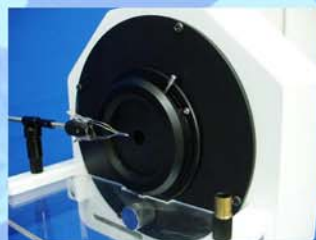
Hight : 400 mm.

Net Weight : 5.40 kg.

Color : White

Accessories : Rubber eyeguards, Tension control pin,

Dust cover, Spare fuse, Tweezer type III





## BENCH MICROSCOPE

### Designed for the jewelry

The bench microscope "CARTON" brand with various magnification

\* Dual magnification of 10x & 20x or 10x & 30x or 20x & 40x bodies available.

\* Single magnification of 10x or 20x bodies available.

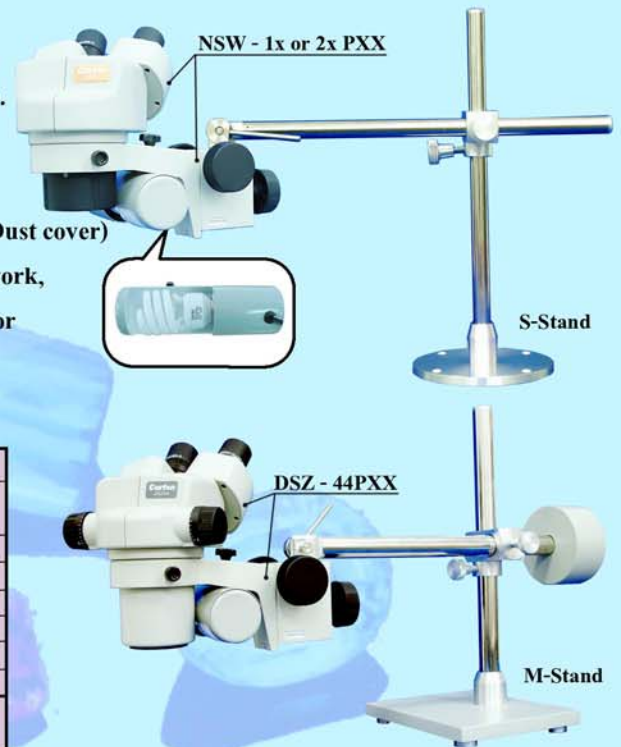
\* Zoom magnification 10x-44x (zoom ratio 4.4:1)

(Each body comes with Wide Field 10x eyepieces, Rubber Eye Guards and Dust cover)

All are a proven value with the right high-quality optics for your fine handwork, no longer will your eye limited your engraving, stone setting, jewelry making or other works.

### Specification

Models	NSW-1 or 2	NSW-12	DSZ-44
Magnification (Filed of View)	10x or 20x (23mm)or(11.5mm)	10x (23.0mm) 20x (11.5mm)	10x to 44x (23.0mm to 5.2mm)
Objective Lenses	1X OR 2X	1X & 2X	1X to 4.4x (zoom ratio : 4.4:1)
Eyepieces	Wide Field 10x (DSW 10x) (field number : 23)		
Optical Body	360° rotatable binocular type, 45° inclined eyepiece tube		
Working Distance	131 mm	131 mm	90 mm
Interpupillary Distance	52mm to 75mm		
Diopter Adjustment	+5.6 - 7.2D on left eyepiece tube		
Stand Type	Universal S-Stand Body holder & focus block (SCW-PXX w/hole)		Universal M-Stand (SCW-PXX w/hole)
Incident Light	Fluorescent Lamp 75W (Daylight)		



### Auxiliary Objective Lense



Remark : 1) By using NSAL 0.5x, 0.7x and NSAL 0.75x, the magnification is decreased while the W.D. is extend.  
2) By using NSAL 1.6x , the magnification is increased while the W.D. is shortened

### Swing-Out Inspection Loupe



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