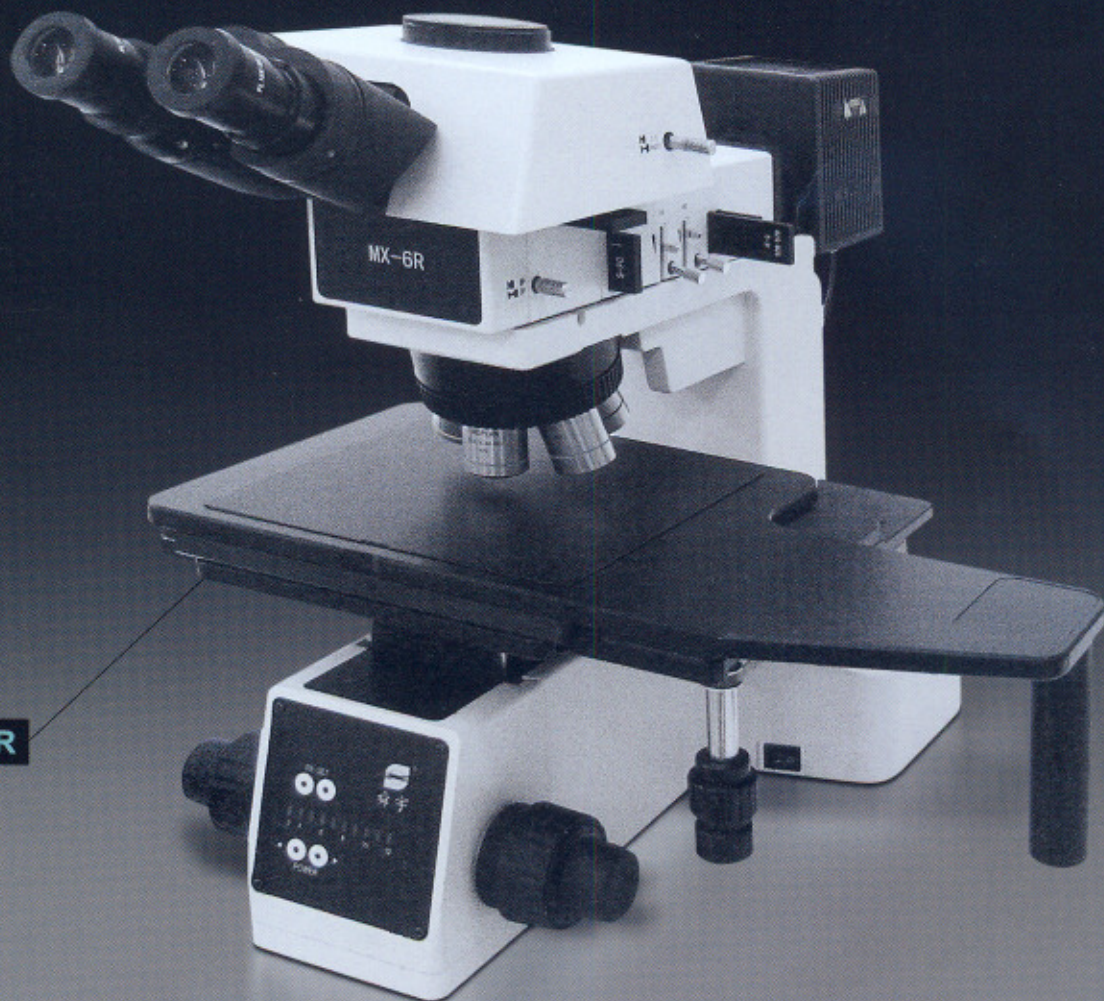


# MX

## Series Metallography Microscope

Color Corrected Infinity Optical System  
Precision Mechanical Structure; Ergonomic Design  
Kohler Illumination; Clearance Image and Flatness  
High Resolution; Sharp Image



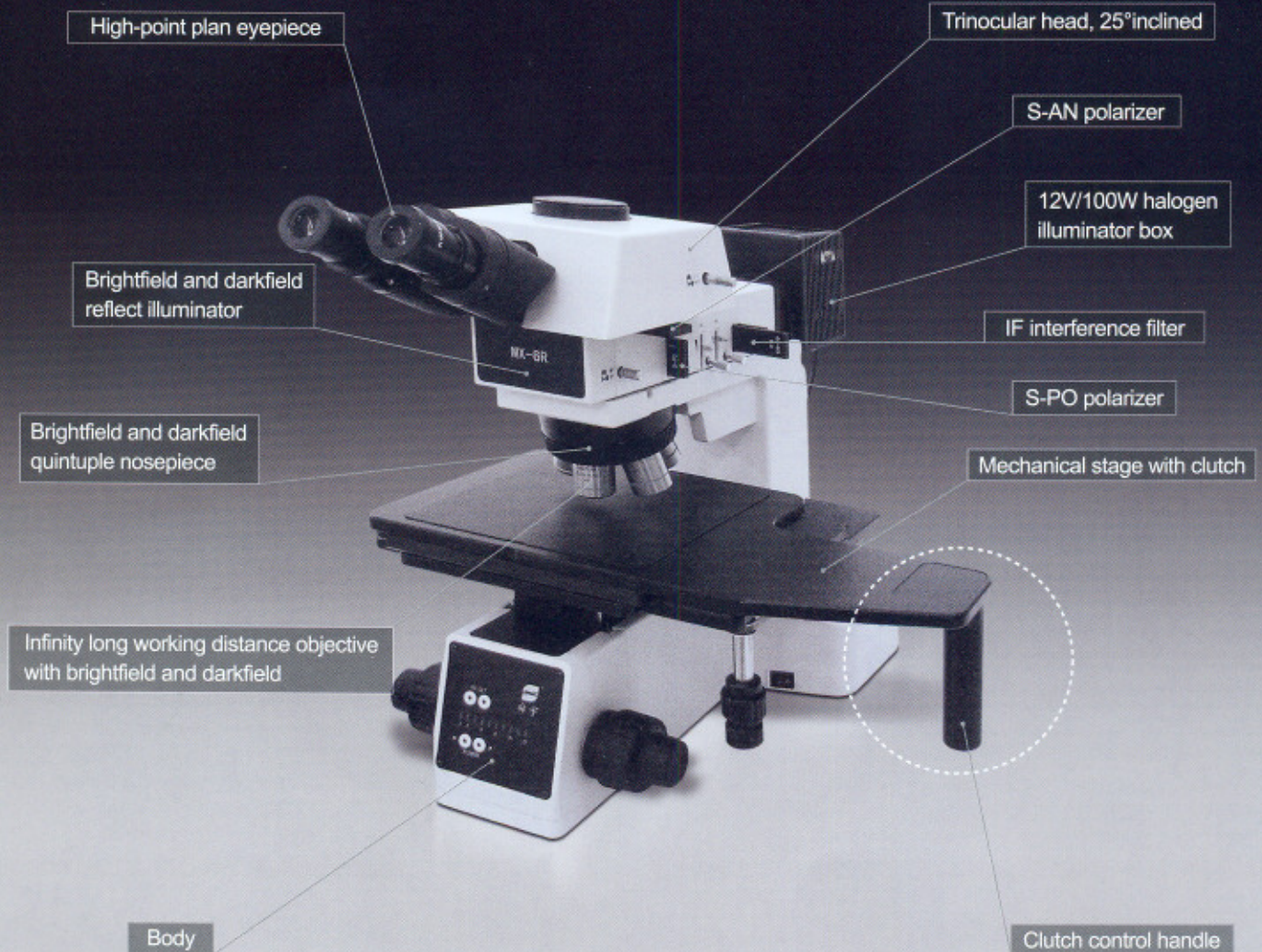
MX-6R

## MX Series Industry Metallography Microscope

Specially design for inspection of semiconductor silicon wafer, LCD inspection, laboratory material analysis and other precision project inspection areas for observation with brightfield and darkfield and simple polarizing.

### Function and character

- Color Corrected Infinity Optical System
- Long working distance and plan achromatic objectives for both brightfield and darkfield makes the image clearance and flatness.
- Reflected Kohler illumination supply enough equality brightness for different objectives.
- Trinocular head, 25° inclined that enhances observation effect comfortable and suitable.
- Come with 6" mechanical stage 200mmX200mm, moving range 158mmX158mm, can be moved fast.
- Ergonomic Design and shapely configuration, the "Y" stand, focusing system adopt the front operating control, coarse and fine coaxial adjustment.
- Illuminator with wide voltage digital adjustment, brightness can be set up and restored.
- Different attachment for option, such as TV adaptor, photo mount adaptor, simple polarizing device, interference filter, micrometer and so on.



## Viewing head

Trinocular head with erect image, the objective and image with same orientation to avoid operation mistake caused by reverse image, and make the work more efficiently.

- Gemel trinocular head, 25° inclined
- Refract rate: binocular 100%, trinocular 100%
- Interpupillary distance adjustable between 54-57, needn't tube compensation
- Diopter adjustment ( $\pm 5$ ) to keep alignment

## Coarse and fine focusing adjustment system

- New type of transmission structure, coarse and fine adjustment coaxial
- Low position design, comfortable for operation
- With tightness adjustment for coarse adjustment and place limit set
- Focusing scope: 33mm
- Focusing precision: 0.001mm
- Height of sample: no more than 32mm

## Mechanical stage

- Double layer mechanical stage, with clutch, can move fast
- Use special material with special technical treatment, wearable and rust resistant
- Low position coaxial handle make the operation more comfortable
- 6" rectangle 200mmX200mm, moving range 158mmX158mm

**By control the clutch, could loose handwheel so as to come away fast easily, and enhance the efficiency of inspection samples quickly.**

## Illumination system

- 12V/100W halogen bulb
- Adapted 90V-240V voltage, with a knob for digital brightness adjustment
- With brightness set up and restore for special view or take photograph
- Reflected Kohler illumination, with field of viewing diaphragm and aperture diaphragm, central adjustable
- Slide pinhole aperture  
—For the use of objectives which magnification more than 50X.

## Nosepiece

- Reversed quintuple nosepiece, both brightfield and darkfield available
- Easy to fix and operate
- High precision to ensure alignment

## Polarizing device

- Choose simple polarizing device enclosure for viewing
- S-PO polarizer, S-AN analyzer



## Eyepiece

PL10X eyepiece, wide of field 22mm  
 Can be added various kind of micrometer or pointer  
 Super wide field, swiftly search and easily viewing  
 High eyepoint design enable user even have on glass  
 Rubber eyecap to prevent light of interference and protect eyepiece

Eyeiece	PL10X23T (diopter adjustable)	PL15X16	PL10X/22(with eyecap)
View of field	23mm	16mm	22mm
Remarks	Standard specifications	Option	Option

## Objective

Infinity plan achromatic and long working distance metallurgical objective (to be used both brightfield and darkfield ) can supply perfect image. All the objectives passed by special technical treatment, it's durable and ensure the image clear for a long time.

Item	Magnification	Numerical aperture(N.A)	Working distance (W.D.)
Infinity plan achromatic objective (brightfield and darkfield available)	5X	0.17	12 mm
	10X	0.25	6 mm
	20X	0.40	5 mm
	50X	0.70	2 mm
	80X	0.80	1 mm

## MX-6R main technical parameter

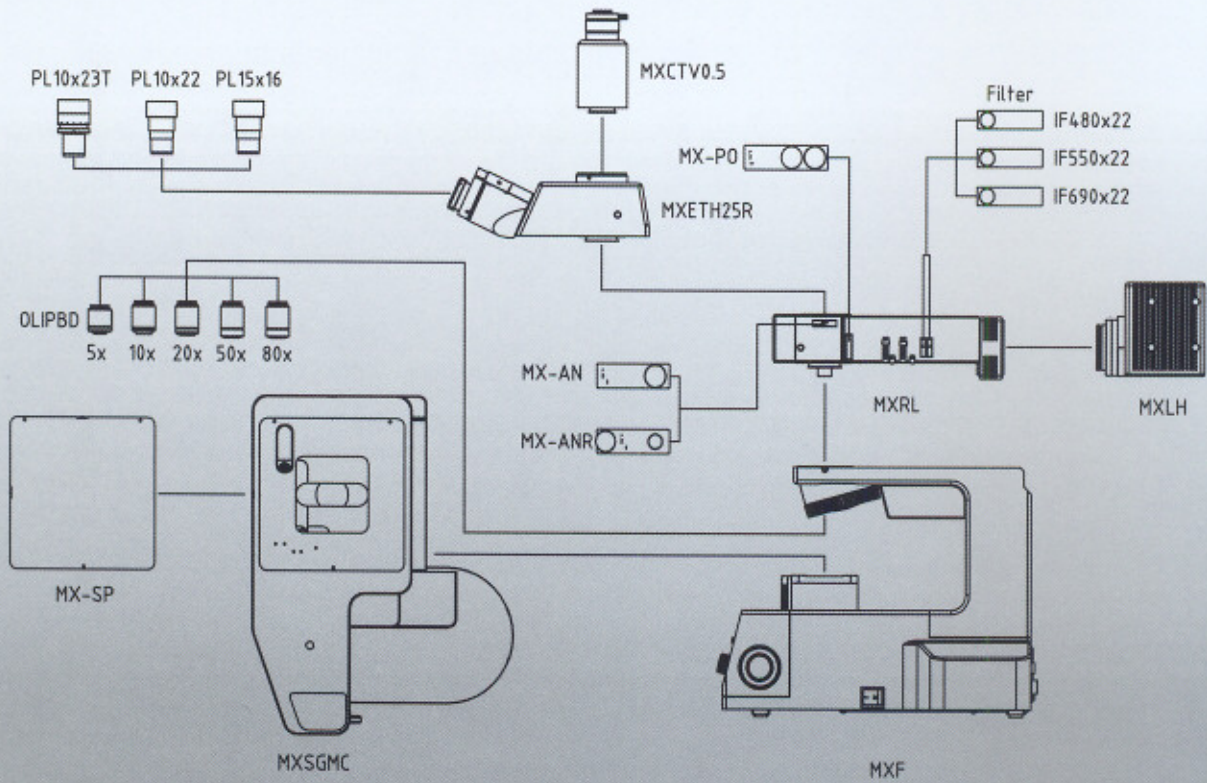
Optical system	Infinity color corrected optical system
Objective	Infinity plan achromatic, long working distance metallurgical objective (both brightfield and darkfield available), 5X, 10X, 20X, 50X, 80X
Eyepiece	High eyepoint plan eyepiece, PL10X22mm High eyepoint plan eyepiece, PL15X16mm
Viewing head	Erect image, gemel trinocular, 25° inclined, reflect rate: binocular head 100%, trinocular head 100%
Illumination system	Reflected Kohler illumination, shift between brightfield and darkfield, with simple polarizing adaptor, 12V/100W halogen bulb, adjustment of brightness, digital brightness adjustment, with brightness set up and restore, and pinhole aperture
Focusing adjustment	Coaxial coarse and fine adjustment, with coarse adjustment stop and tightness adjustment Coarse adjustment range: 33mm ( behind focus 1mm), precision of fine adjustment: 0.001mm Highest height of sample: 32mm
Nosepiece	Reversed and tilt quintuple nosepiece, both brightfield and darkfield available
Stage	6" rectangle mechanical stage 200mmX200mm, moving range 158mmX158mm Low position coaxial adjustable, with clutch handle, can be moved fast.
Stand	New ergonomic design, "Y" type stand, control in front position enable operate easily
Option	TV adaptor, photo mount adaptor, simple polarizing kit, interference filter, micrometer

## Specifications of MX-6R Metallography Microscope

Description of part	Model No	Order No.
	MX-6R	
Microscope body	●	MXF
Quintuple nosepiece (Brightfield/darkfield)	●	PI103C5BD
Reflected illumination	●	MXIL
6" mechanical stage with clutch	●	SGMC6A
12V/100W halogen bulb box	●	LH100
25° inclined, erect image, gemel trinocular	●	ETH25R
Objectives 5X,10X,20X,50X,80X (Brightfield/Darkfield)	●	OLIPBD5X/10X/20X/50X/80X
PL10X22 high eyepoint plan eyepiece (with eye cap)	●●	PL10X22
PL15X16 high eyepoint plan eyepiece	○○	PL15X16
PL10X23T high eyepoint plan eyepiece (diopter adjustable)	○○	PL10X23T
Cord	●	
12V/100W halogen bulb (spare)	●	
M3, M4 hex wrench (for each)	●	
Dustcover	●	
Operation manual	●	
S-PO polarizer	○	MX-PO
S-AN polarizer	○	MX-AN
IF-G green filter	○	IF-G
IF-B blue filter	○	IF-B
IF-R red filter	○	IF-R
0.1mm reticle	○	
Grid micrometer	○	
0.01mm micrometer	○	
Video adopter for 1/2 CCD, with C mount	○	MXCTV0.5
Adaptor for digital camera	○	MXDM

"●" For standard specification, "○" for option

MX Series Metallography Microscope Configuration Chart



MX Series Metallography Microscope Dimension Chart

