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A13.0901N

Upright Metallurgical Microscope, BD, DIC, Semi-APO, Polarizing



Ergonomics - High Working Efficiency



Infinity Tilting Trinocular Head

ETTR Erect Gemel Trinocular Head, Same Direction And Same Moving Direction For Objective And Image, Easy To View And Operate. The Head Can Be In Common Use For A13.0910 Series.

Long Working Distance Metallurgical Objectives

New Design Of Long Working Distance Professional Metallurgical Objectives. Use Semi-apochromatic And Multilayer Broadband Coating Technology, Image Clear And Sharp In The Whole Field, Color Nature And Bright. Long Working Distance Design, W.D.7.9mm For 50x, W.D.2.1mm For 100x, And There Is 20x Ultra-long Working Distance Metallurgical Objective, Which Greatly Expands The Application Field Of Mx Series. Complete Set Of Bright/darkfield Objectives Special Use For Mx6r, Luminance Of Darkfield Illumination Reaches Double More Than Traditional

Design Of Large-stroke Mobile Platform

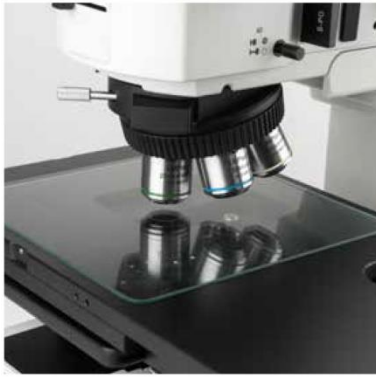
Adopt 4"/6" Platform Design, Not Only Suitable For Corresponding Size Wafer And Fpd Inspection, But Also For Array Inspection Of Small Size Samples. 6" Three Layer Mechanical Stage, For Transmit & Reflect Light
Size 445*240mm, Moving Range For Reflect Light 158*158mm, For Transmit Light 100*100mm, Low Position X/Y Moving Handle, With Glass Plate, With Clutch Handle To Move Quickly In Full Range

Modular Components - Flexible Configuration

Safe And Stable Frame Structure Design

Industrial Inspection-grade Microscope Body, Metal Frame With Low Center Of Gravity, High Rigidity And High Stability Greatly Improve The System's Vibration Resistance And Imaging Stability. The Front Low-hand Coarse And Fine Coaxial Focusing Structure, Built-in 100-240v Wide Voltage Transformer, Can Adapt To The Grid Voltage Of Different Regions. The Base Is Equipped With An Air Circulation Heat Dissipation System, Which Will Not Overheat The Rack For A Long Time.





High-performance Nosepiece

Precision Bearing Design For Nosepiece, Comfortable And Positioning Accurate, Good Concentricity, Different Kind Of Nosepiece For Option.

Different Source For Option

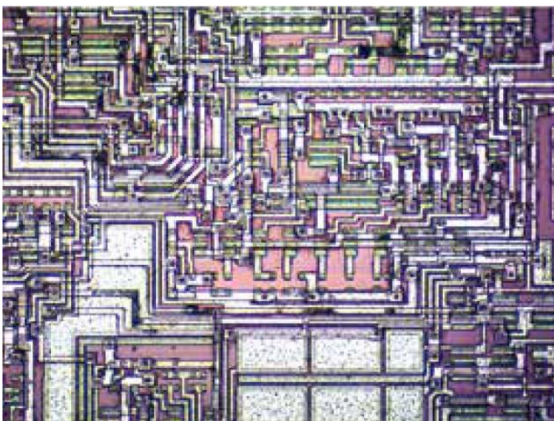
With Variable Aperture Diaphragm, Field Aperture, And Center Can Be Adjusted; switching Mechanism For Light And Dark Field



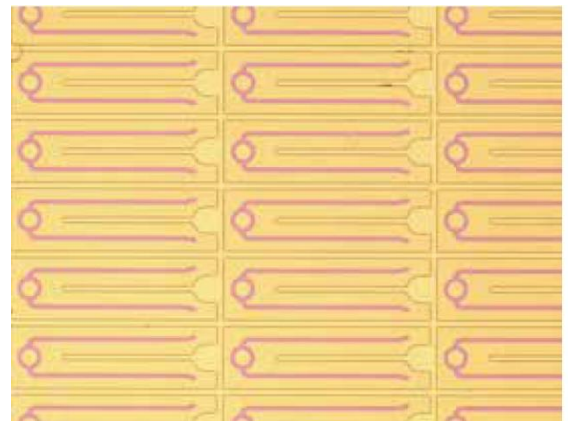
Multifunction - Meet Various Testing Needs

Bright Field Observation (Reflect)

Kohler Reflected Illumination, Infinity Long Working Distance Plan Achromatic Metallurgical Objectives Ensure Image Clear, Flat And Sharp From Low To High Magnification.



IC 5X Brightfield

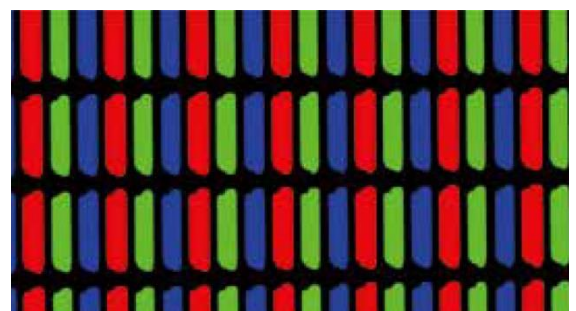


Sapphire 5X Brightfield

Bright Field Observation (Transmit)

5W LED, N.A.0.5 Condenser, Can Observe Lcd Color Liquid Crystal Display, Device Frame Edge, Etc. Under Transmission Illumination.

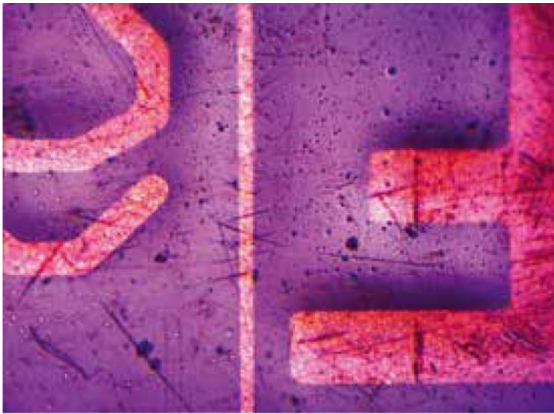
Transmitted Illumination And Reflected Illumination Are Independently Controlled And Can Be Used Simultaneously Or Independently



LCD 10X Transmit Light

Oblique Lighting

The Use Of Oblique Illumination Can Make The Three-dimensional Patterns Of Different Material Parts On The Surface Of The Object Increase The Contrast And Visual Effect Of Observation.



FPC 10X Brightfield



FPC 10X Oblique

Dark Field Observation

Pull The Transfer Stick To Dark Field Position To Observe Scratch, Impurity Dot And Other Small Defect Of The Sample Surface. Built-in Attenuator Reduces The Intensity Of Light Change To Eyes When Switching Between Bright Field And Dark Field.



FPC 10X Dark Field

Simple Polarizing Observation

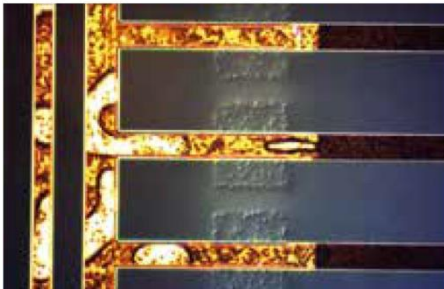
Insert Polarizer And Analyzer To Suitable Position Of Illuminator For Polarizing Observation. Fixed Type And 360 ° Rotation Type Analyzer For Options.



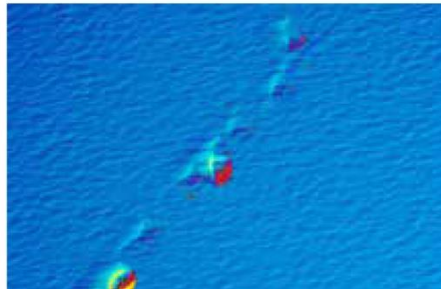
PCB Cross Section 20X Simple Polarizing

DIC Observation

Based On Orthogonality Polarizing, Insert Nomarski Dic Prism To Match Dic Observation. Using DIC Technology Can Show Obvious Emboss For The Small High-low Difference, Increase The Image Contrast. It Can Match Objectives With Dic Function To Insure The Interference Colors Same Of The Whole Field Of View. Differential Interference Result Is Excellent, And Dic Result Of High Magnification Objectives Is Good As Well.



Conductive Particles 20X DIC



LED Outer Edge 20X DIC



Wafer 50X DIC

Multifunction - Meet Various Testing Needs

Adapter

Trinocular Head Comes With Video Accessories, User Can Get The Image From Monitor Or Computer, To Do Image Analysis, Processing, Saving Or Transmitting. Use A Special C Mount And A Relay Lens, And Connect With A Digital Camera To Take Photos And Catch Images.



Various Interference Filters For Option

When Lighting With 12v100w Halogen Lamp, Lbd Sunlight Filters Can Be Selected To Get Soft Bright And White Background. In Industry Use, Other Filters Can Be Selected To Adjust The Light Spectrum To Get The Best Image Result.



Various Interference Filters For Option

- 1-LMPLAN
- 2-LMPLAN-BD
- 3-LMPLANFL-BD
- 4-LMPLANFL-BD
- 5-LCPLFL



1



2



3



4



5

Other Attachments



Precision Measurement Can Use 0.01mm Micrometer



Allen Wrench With Straight Shank / Allen Wrench

Product Specification

A13.0901N BD DIC Semi-APO Polarizing Metallurgical Microscope		-R	-RT	Cata. No.
Optical System	Bright Field, Dark Field, Polarizing, DIC, Reflect Light	●		
	Bright Field, Dark Field, Polarizing, DIC, Transmit & Reflect Light		●	
Head	ETTR 5°-35° Tilttable Trinocular Head, Infinity Sedentopf, Interpupillary Distance 50~76mm, Light Spilting Ratio Switch E100:P0/E0:P100, Erect Image	●	●	A53.0911-T535
CCD Adapter	0.5x C-Mount, For 1/2"CCD, Focus Adjustable	○	○	A55.0931-05
	0.35x C-Mount, For 1/2"CCD, Focus Adjustable	○	○	A55.0931-35
	0.65x C-Mount, For 1/2"CCD, Focus Adjustable	○	○	A55.0931-65
	1.0x C-Mount, For 1"CCD, Focus Adjustable	○	○	A55.0931-10
Eyepiece	High Eyepoint Plan PL10x/22mm	●●	●●	A51.0903-1022
	High Eyepoint Plan PL10x/22mm With Reticle	○	○	A51.0905-1022R
	High Eyepoint Plan PL10x/22mm, Diopter Adjustable	○	○	A51.0904-1022T
	High Eyepoint Plan PL10x/22mm, Diopter Adjustable, With Reticle			A51.0905-1022RT
	High Eyepoint Plan PL10x/23mm, Diopter Adjustable	○	○	A51.0904-1023T
	High Eyepoint Plan PL15x/16mmPL15x16	○	○	A51.0903-1516
Objective	LWD Infinity Plan Metallurgical BF/DF DIC Objective			
	LMPLAN-BD 5X-DIC LMPL5X/0.15 W.D.9mm	●	●	A5M.0939-5
	LMPLAN-BD 10X-DIC LMPL10X/0.3 W.D.9mm	●	●	A5M.0939-10
	LMPLAN-BD 20X-DIC LMPL20X/0.50 W.D.3.4mm	●	●	A5M.0939-20
	LWD Infinity Plan Metallurgical BF/DF Semi-APO Objective			
	LMPLAN-BD 50x LMPLFL50X/0.55 W.D.7.5mm	●	●	A5M.0940-50
Nosepiece	LMPLAN-BD 100x LMPLFL100X/0.80 W.D.2.1mm	○	○	A5M.0940-100
	Backward, Quintuple For Bright/Dark Field, With DIC Slot	●	●	A54.0930-MX5BD
DIC	DIC Interfere Set	○	○	A5M.0950
Working Stage	6" Three Layer Mechanical Stage, For Transmit & Reflect Light Size 445*240mm, Moving Range For Reflect Light 158*158mm, For Transmit Light 100*100mm, Low Position X/Y Moving Handle, With Glass Plate, With Clutch Handle To Move Quickly In Full Range	●	●	A54.0944-M6RT
	Adapter for 4" Plate, for Reflect Light	○	○	A54.0944-M4A
	Adapter for 4" Plate, for Transmit & Reflect Light	○	○	A54.0944-M4ART
	4" Double Layer Mechanical Stage, For Reflect Light, Low Position Handle, Size 230x215mm, Moving Range For Reflec Light 105*105mm, With Metal Plate, Right Hand Use	○	○	A54.0944-M4
	4" Double Layer Mechanical Stage, For Reflect Light, Low Position Handle, Size 230x215mm, Moving Range For Reflec Light 105*105mm, With Metal Plate, Left Hand Use	○	○	A54.0944-M4N
	4" Double Layer Mechanical Stage, For Transmit & Reflect Light, Low Position Handle, Size 230x215mm, Moving Range For Reflec Light 105*105mm, With Glass Plate	○	○	A54.0944-M4RT
	Rotatable Working Stage 6", For Wafer 4", 5", 6"	○	○	A54.0944-W6

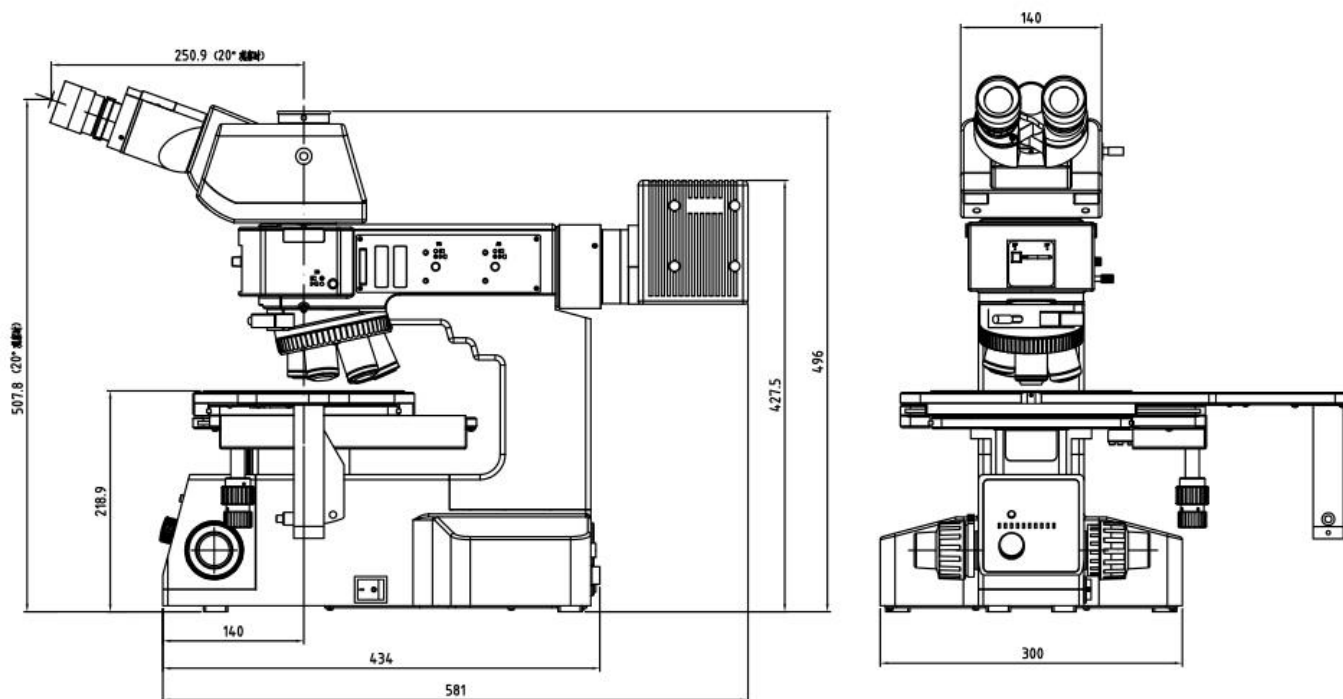
Main Body & Focusing	Reflected Frame: Coaxial Coarse And Fine Adjustment, Coarse Range 33mm, Fine Precision 0.001mm, With Pp-limited Device And Tension Adjustment. Built-in 90-240V Wide Voltage Transformer.	●		
	Transmitted & Reflected Frame: Coaxial Coarse And Fine Adjustment, Coarse Range 33mm, Fine Precision 0.001mm, With Up-limited Device And Tension Adjustment. Built-in 90-240V Wide Voltage Transformer, Transmitted Lamp-house With Single 5W LED. With NA 0.5 Condenser.		●	
Reflect Light	BF/DF Reflect Illumination, With Iris Field Diaphragm and Aperture Diaphragm, Both Central Adjustable, With Filter Slot and Polarizing Slot, With Bright Field/Dark Field Switch, With Bright Intensity Setting And Reset Function On Stand	●	●	A56.0915
	12V100W Halogen Light Box, Pre Centered	●	●	A56.0909-LH
	12V100W Halogen Bulb (Philps 7724)	●	●	A56.0923-12100
	Interference Filter, For Reflect Light, Natural White	●	●	A5M.0953-LBD
	Interference Filter, For Reflect Light, Blue, <480nm	○	○	A5M.0953-B
	Interference Filter, For Reflect Light, Green, 520~570nm	○	○	A5M.0953-G
	Interference Filter, For Reflect Light, Red, 630~750nm	○	○	A5M.0953-R
Transmit Light	Transmit Illumination, Single High Power 5W LED, Brightness Adjustable, N.A.0.5 Condenser, With Iris Diaphragm		●	
Polarizing For Reflect Light	Fixed Polarizer Flashboard	●	●	A5P.0924-RP
	360° Rotatable Analyzer Flashboard	●	●	A5P.0924-RA360
	Fixed Analyzer Flashboard		○	A5P.0924-RA
Power	90-240V Wide Voltage, One Way Power Output	●		
	90-240V Wide Voltage, Double Way Power Output		●	
Other	Allen Key M3	●	●	
	Allen Key M4	●	●	
	Specimen Presser	○	○	A5M.0920
New Developed Optional Accessories 2020				
Head	Trinocular Head, 30° Inclined, Inverted Image, Interpupillary Distance 50~76mm, Light Split Ratio 0:100; 20:80; 100:0, Support Super Large Wide Field Eyepiece 25mm/26.5mm	○	○	A53.0913-T30
	Trinocular Head, 30° Inclined, Erect Image, Interpupillary Distance 50~76mm, Light Split Ratio 0:100, 100:0, Support Super Large Wide Field Eyepiece 25mm/26.5mm	○	○	A53.0913-T30E
Eyepiece	High Eyepoint Plan PL10x/25mm, Diopter Adjustable	○	○	A51.0904-1025T
	High Eyepoint Plan PL10x/26.5mm, Diopter Adjustable	○	○	A51.0904-10265T
	High Eyepoint Plan PL10x/25mm, Diopter Adjustable, With Reticle	○	○	A51.0905-1025T
	High Eyepoint Plan PL10x/26.5mm, Diopter Adjustable, With Reticle	○	○	A51.0905-10265T
CCD Adapter	0.5x C-Mount, For 1/2"CCD, Focus Adjustable	○	○	A55.0930-05
	0.35x C-Mount, For 1/2"CCD, Focus Adjustable	○	○	A55.0930-35
	0.65x C-Mount, For 1/2"CCD, Focus Adjustable	○	○	A55.0930-65
	1.0x C-Mount, For 1"CCD, Focus Adjustable	○	○	A55.0930-10
Objective	LWD Infinity Plan Metallurgical BF/DF DIC Semi-APO Objective			
	5X/0.15, WD=13.5mm	○	○	A5M.0941-5
	10X/0.30, WD=9mm	○	○	A5M.0941-10
	20X/0.50, WD=2.5mm	○	○	A5M.0941-20
	20X/0.40, WD=8.5mm	○	○	A5M.0941-20A
	50X/0.80, WD=1.0mm	○	○	A5M.0941-50
	100X/0.90, WD=1.0mm	○	○	A5M.0941-100
DIC	Semi-APO Objective With Correcting Ring 50X/0.70, WD=2.3~2.9mm	○	○	A5M.0945-50
	DIC Interfere Set, For BF/DF Semi-APO Objective Objective	○	○	A5M.0952
	DIC Interfere Set, For BF/DF Semi-APO Objective Objective, Olympus Level	○	○	A5M.0952-O

Remark: '●' Means Standard Outfit, '○' Means Optional

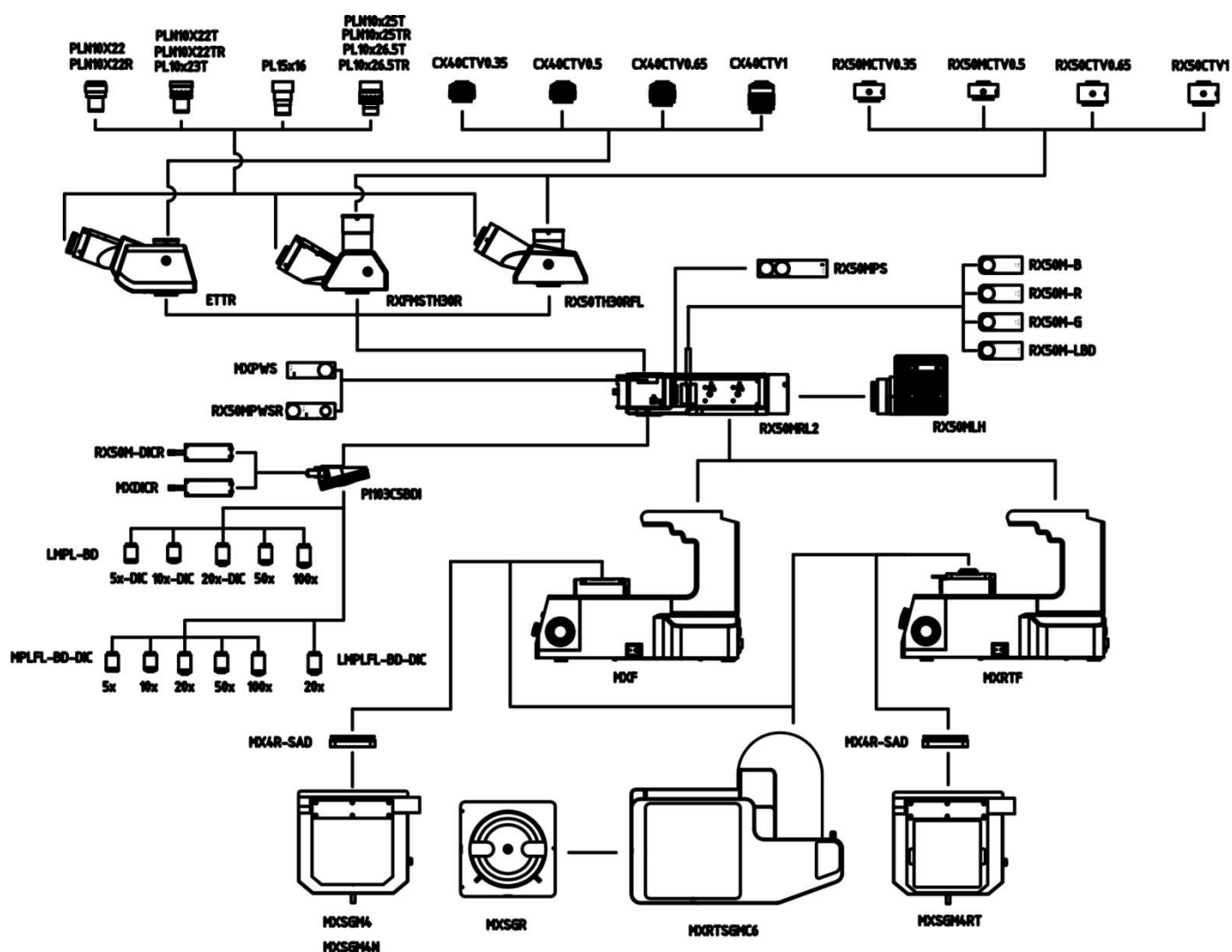


Size And Configuration

Size: mm



System Configuration Diagram



MICROSCOPE IS OUR FOCUS

The Key To Micro World

Opto-Edu is one of the most professional supplier for microscope & educational instruments from China. We have been focusing in this field for more than 25 years, has a professional sales team who can assist our customer to find the BEST SELECTED microscope with competitive price and 3 YEARS Warranty.

25+ Year professional experience we know Microscopes the best!

150+ Microscope & accessory manufacturers supply all models from China

200+ Hot sale microscopes & Newest Models Updated Every Month

750+ Customer from all over the world & keep rising every day

1500+ Microscope products create your one-stop purchase platform

3000+ Educational Instruments For School, College And University Teaching

The Most Professional Microscope Manufacturer in China!



MICRO
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The Key To OPTO-EDU



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