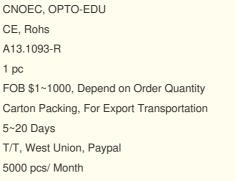
China

OPTO-EDU A13.1093-R Trinocular Metallurgical Microscope Semi Auto Reflect BF / DF DIC Polarizing

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:





Product Specification

- Observation Method:
- Main Body:
- Head:
- Eyepiece:
- Nosepiece:
- Objective:
- Highlight:

- Bright Field, Dark Field, Polarizing, DIC ATH Semi-Auto Body + Halogen Illumination. Ergo Tilting Trinocular Head, Inclination 0°~35°
- SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm
- Auto Coded Nosepiece, Sextuple, Backward
 - N-MPFN Infinity Plan BF/DF Semi-APO Metallurgical Objective
 - opto edu trinocular metallurgical microscope, trinocular metallurgical microscope opto edu, 25mm trinocular metallurgical microscope



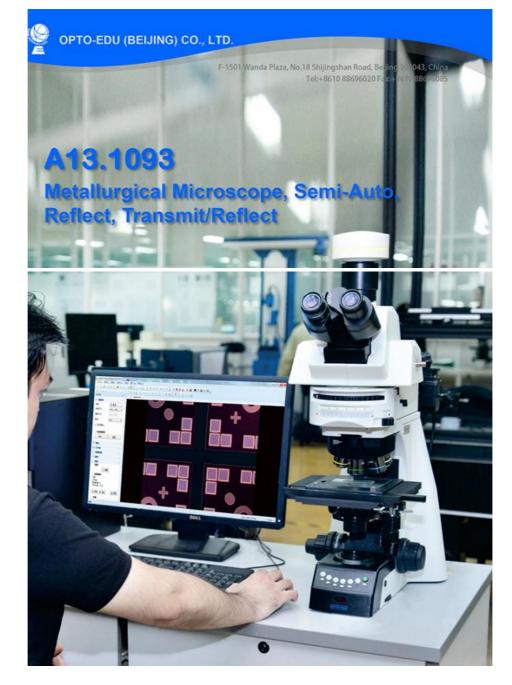
More Images





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Research Level Metallurgical Microscope Semi-Auto, With Reflect, Transmit/Reflect Light Manual 6 Holes Nosepiece With NIS45 Infinity Plan Semi-APO BD Objective 5x10x LWD 20x50x100x 4" Working Stage, Size 210x170mm, Move Range 102x102mm, With Round Crystal Holder, Wafer Holder Etc. Reflect 12V100W Halogen Illuminator, Bright Field, Polarizing, DIC View Transmit 12V100W Halogen Kohler Illumination, Auto Adjust Brightness, ECO Function



A13.1091, A13.1093 Series Microscope



Product Details





With newly designed DIC module, the height difference of a specimen which can not be detected with brightfield becomes a relief-like or 3D image. It is ideal for the observation of LCD conducting particles and the surface scratches of hard-disk etc.



A5M.1091, A5M1092 Series Infinity Plan BF/DF Semi-APO Objectives By using carefully selected high- transparent glass and advanced coating technology, A5M.1091 objective lens can provide high resolution image and accurately reproduce the natural color of the specimen. For special applications, a variety of objectives is available, including polarizing and long working distance.

Focusing System In order to make the system suitable for the operating habits of the operators, the knob of focusing and stage can be adjusted to the lefthand side or right-hand side. This design makes the operation comfortable





Remote Control Pad

Objectives could be switched by simply pressing the rotating buttons. Users could also self-define two of the most commonly used objectives.User could swap between these two objectives by pressing the green button.

A13 1001 A13	1093 Metallurgical Microscope, BF/DF, DIC, PL, APO	A13.	A13.1091		1093	Cata.No.
A13.1051, A13.1		-R	-TR	-R	-TR	
Optical System	NIS45 Infinite Optical System	٠	٠	٠	٠	
Observation Method	Bright Field	•	٠	٠	٠	
	Dark Field	•	٠	٠	٠	
	Polarizing	٠	٠	٠	٠	
	DIC	•	٠	٠	٠	
	BH Manual Body + Halogen Illumination.	٠	٠			A54.1090-BH
	BL Manual Body + LED Illumination.	0	0			A54.1090-BL
Aain Body	ATH Semi-Auto Body + Halogen Illumination.			_		AE4 1000 ATU
Main Bouy	Auto Nosepiece + Auto Condenser + Auto Brightness Adjust			•	•	A54.1090-ATH
	ATL Semi-Auto Body + LED Illumination.			0	0	A54.1090-ATL
	Auto Nosepiece + Auto Condenser + Auto Brightness Adjust			0	0	
	Seidentopf Binocular Head, Inclined 30°,	0	0	0	0	A53,1090-B
	Interpupillary Distance 47-78mm	0	0			А53.1090-Б
	Seidentopf Trinocular Head, Inclined 30°,					
lead	Interpupillary Distance 47-78mm,	0	0	0	0	A53.1090-T
heau	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100					
	Ergo Tilting Trinocular Head, Inclination 0°~35°,					
	Interpupillary Distance 47-78mm,	•	•	•	٠	A53.1090-TT
	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100					
Eyepiece	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	••	••	••	••	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1090-1022
	EW12.5x/16mm, High Eyepoint	0	0	0	0	A51.1090-12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1090-2012
	Manual Nosepiece, Sextuple, Backward	٠	٠			A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto Brightness Adjust	0	0			A54.1091-6C

	Auto Coded Nosepiece, Sextuple, Backward,					
Nosepiece	Motorized Switch Objectives, Controled By:					
	1. Shortcut Button On Right Side Of Base, Can Switch 2 Preseted					
	Objectives Quickly			•	•	A54.1091-6A
	2. Remote Control Pad In Front Of Base, Press Each Button To					
	Switch Objectives And Adjust The Light Intensity Automatically. 2					
	Buttons Can Be Self-Defined For Most Commonly Used Objecives,					
	Press Green Button Can Swap Between Them					
	With Slot For Polarizing Compensator Slider Or DIC Slider	•	•	٠	٠	
	Protect Cover For Nosepiece Holes	٠	•	•	٠	A54.1091-C
	BD 5x/0.15, W.D.20mm, No Cover Glass	•	٠	٠	٠	A5M.1091-5
IIS45 N-MPFN	BD 10x/0.3, W.D.11mm, No Cover Glass	•	•	•		A5M.1091-10
nfinity Plan	BD 20x/0.45, W.D.3mm, No Cover Glass	0	0	0	0	A5M.1091-20A
BF/DF Semi-APO			-			
Netallurgical	BD LWD 20x/0.4, W.D.12mm, No Cover Glass	٠	•	•	•	A5M.1091-20
Objective	BD LWD 50x/0.5, W.D.10.6mm, No Cover Glass	•	•	•	•	A5M.1091-50
	BD LWD 100x/0.8, W.D.3.5mm, No Cover Glass	•	•	•	٠	A5M.1091-100
IIS45	BD 50x/0.8, W.D.1mm, No Cover Glass	0	0	0	0	A5M.1092-50
BF/DF APO	BD 100x/0.9, W.D.1mm, No Cover Glass	0	0	0	0	A5M.1092-100
	4" Working Stage, Size 210x170mm, Move Range 4"x4"					
	(102x102mm), Right Handle Optional, Hard Oxide Surface, Y Can	•	•	•		A54.1093-L
	Be Locked	•	•	•	•	A04.1000 E
Norking Stage	4" Working Stage, Size 210x170mm, Move Range 4"x4"	-				
For Metallurgical	(102x102mm), Left Handle Optional, Hard Oxide Surface, Y Can Be	0	0	0	0	A54.1093-R
Aicroscope	Locked				<u> </u>	l
	Round Crystal Holder, For 2",3",4" Diameter Crystal	٠	٠	٠	٠	A54.1093-H1
	Wafer Holder	٠	٠	٠	٠	A54.1093-H2
	Glass Substrate, Size 145(X)x152(Y)mm	٠	•	٠	٠	A54.1093-H3
	Metal Stage Plate, Size 145(X)x152(Y)mm	•	•	•	•	A54.1093-H4
	LWD Condenser, N.A.0.65, W.D.10.2mm, Center Adjustable, Dual	-	-	۲, T	Ļ	
Condenser		٠	•	٠	٠	A5M.1095
	Condenser Lifting Handle					
	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing					
	Range 35mm, Coarse Stroke 37.7mm, Fine Stroke 0.1mm,Can	•	•	•	٠	
Focusing	Exchange Hand Wheel Between Left/Righ,					
	Max Sample Space 76mm	٠		٠		
	Max Sample Space 56mm		٠		٠	
	Reflect Epi Metallurgical Illuminator, Turret Disc With 6					
	Positions For Filter Block, Kohler Illumination	٠	•	•	•	A5M.1090
Reflect	12V100W Halogen Lamp Housing	•	•	•	•	A5M.1090-100W
_iaht Source		-		-	-	
Light Source	BF/DF View Block	•	•	•	•	A5M.1090-BD
	BF1 View Block	•	٠	٠	•	A5M.1090-B1
	BF2 View Block	٠	٠	٠	٠	A5M.1090-B2
	Filter Blue	•	٠	٠	٠	A56.1093-B
Filter For Reflect	Fibler Green	•	•	•	٠	A56.1093-G
_ight Source	Filter Yellow	•	•	•	•	A56.1093-Y
g		-	-	-	-	
	Filter Forested	•	•	•	•	A56.1093-F
Polarizing	Polarizer For Reflect Light Source	•	٠	٠	٠	A5P.1090-RP
olalizing	Analyzer For Reflect Light Source	٠	•	٠	٠	A5P.1090-RA
	Blank Slider	•	٠	٠	٠	A5P.1090-E
DIC	Nomarski DIC Slider For Reflect Light Source	•	•	•	•	A5M.1090-DIC
	Transmit Kohler Illumination, Brightness Adjustable,	•	-	•	•	Nomin 1000 Bio
			•		٠	A56.1090-12V10
	12V100W Halogen, External Lamp House		<u> </u>	<u> </u>	<u> </u>	-
	Transmit Kohler Illumination, Brightness Adjustable,		0	l	0	A56.1090-3WLE
	3W S-LED, Built-in Main Body					
Transmit	ECO Function Support Auto Power Off After 30 Mins From Operator	_	•		•	A56.1090-ECO
Light Source	Leave To Save Energy		L	L	L	1030-200
	Auto Brightness Adjust, Brightness For Each Objective Can Be					
	Memorized And Restored When Objective Is Selected					
			0		•	A56.1090-AB
	A13.1091 Upgradeable To Auto Brightness Adjust, Must Upgrade To					
	A54.1091-6C Coded Nosepiece At Same Time					
	Filter Holder On Base, Can Hold 3 Filters		•		•	A56.1092-H
Filter For Transmit Light Source				<u> </u>		
	Filter LBD		•		•	A56.1092-LBD
	Filter Green		•		٠	A56.1092-G
	Filter Yellow		•		٠	A56.1092-Y
	Filter ND6		٠		٠	A56.1092-ND6
	Filter ND25		•		•	A56.1092-ND25
		0	0	0	0	A55.1090-E
Adapter	Eyepiece Adapter Dia.23.2mm					1
	C-Mount 1.0x	0	0	0	0	A55.1090-1.0x
	C-Mount 0.5x	0	0	0	0	A55.1090-0.5x
Software	NOMIS Basic Image Processiing Software	0	0	0	0	A30.1090
	Working Stage Holder Bracket	٠	•	•	•	A54.1096
	Adapter To Adjust Eye Position	0	•	0	0	A54.1096-A1
	Adaptor To Majuot Eyo Tobilion	Ŭ	Ŭ			
	Adoptor To Lower The Stage Desilier 1	~	~			
	Adapter To Lower The Stage Position 1"	0	0	0	0	A54.1096-A2
	Adapter To Lower The Stage Position 1" Immersion Oil	0	0	0	0	A54.1096-A2 A50.1090-01

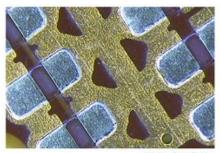
1	r					
Other Accessories	Power Cord	•	•	•	•	A50.1090-03
	Short Eye Cover, For Eyepiece	0	0	0	0	A50.1090-04
	Long Eye Cover, For Eyepiece	0	0	0	0	A50.1090-05
	Eyepiece Micrometer, Cross	0	0	0	0	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer	0	0	0	0	A50.1090-07
	USB Cable	0	0	0	0	A50.1090-08

Note:"•"In Table Is Standard Outfits,">" Is Optional Accessories "-" Is Unavailable



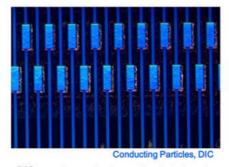
Various Observation Methods

With excellent optical system, A13.1091 series microscope provides high resolution and chromatic aberration corrected images both in the eyepieces and on the monitor. A13.1091 series has been designed with modularity to meet vairous industrial and materials science applications. It gives users flexibility to build a system for specific needs.

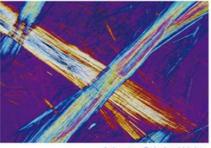


Wafer, Darkfield

Darkfield enables the observation of scattered or diffracted light from the specimen. Anything that is not flat reflects this light while anything that is flat appears dark so imperfections clearly stand out. The user can identify the existence of even a minute scratch or flaw down to the 8nm level-smaller than the resolving power limit of an optical microscope. Darkfield is ideal for detecting minute scratches or flaws on a specimen and examining mirror surface specimens, including wafers.



DIC is a microscopic observation technique in which the height difference of a specimen not detectable with brightfield becomes a relief-like or three- dimensional image with improved contrast. This technique utilizes polarized light and can be customized with a choice of three specially designed prisms. It is ideal for examining specimens with very minute height differences, including metallurgical structures, minerals, magnetic heads, hard-disk media, and polished wafer surfaces.



Asbestos, Polarized Light

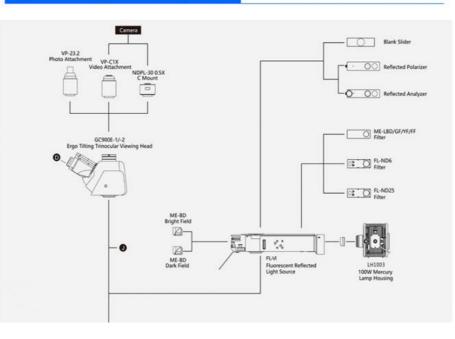
Polarizing Light generated by a set of filters (analyzer and polarizer). The characteristics of the sample directly affect the intensity of the light reflected through the system. It is suitable for metallurgical structures (i.e., growth pattern of graphite on nodular casting iron), minerals, LCDs and, semiconductor materials.

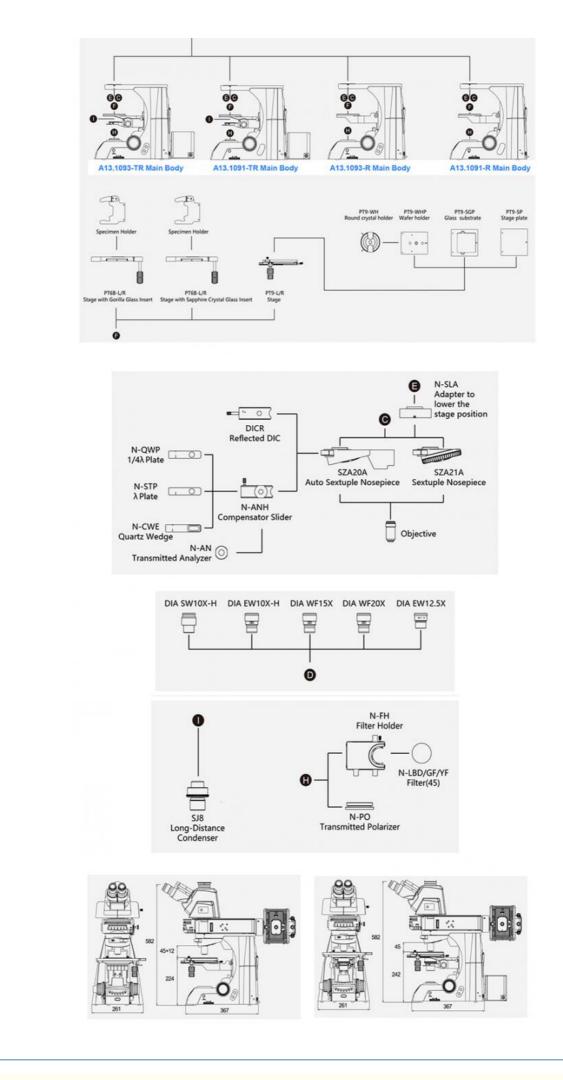


LCD, Transmitted Light Observation

Bright Field Transmit & Reflect View. For transparent specimen such as LCDs, plastics, and glass materials, true transmitted light observation is available by using a variety of condensers. Examining specimen in transmitted brightfield and polarized light can be accomplished all in one convenient system.

System Diagram & Size(mm)





Opto-Edu (Beijing) Co., Ltd.						
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