### Opto Edu A13.2255 Metallurgical Microscope Fully Motorized Transmit Reflect **BX53 CX43 Level**

### **Basic Information**

. Place of Origin: China Brand Name: OPTO-EDU · Certification: CE, Rohs Model Number: A13.2255 • Minimum Order Quantity: 1 pc

• Price: FOB \$1~1000, Depend on Order Quantity Carton Packing, For Export Transportation Packaging Details:

• Delivery Time: 5~20 Days

Payment Terms: T/T, West Union, Paypal

. Supply Ability: 5000 pcs/ Month



### **Product Specification**

· Optical System: ECGO Infinity Plan Mutual Achromatic

Optical System, Confocal: 45mm

Head & Video Adapter: Trinocular Head, Light Split (0/100, 50/50,

100/0), Ultra Wide FN=26.5

• Eyepiece: Ultra Wide Field 10x/23mm, Diopter

Adjustable -2~+8°, With Eyecup

• Nosepiece: 5 Holes Motorized Nosepiece, M26 Screw,

For BF/DF

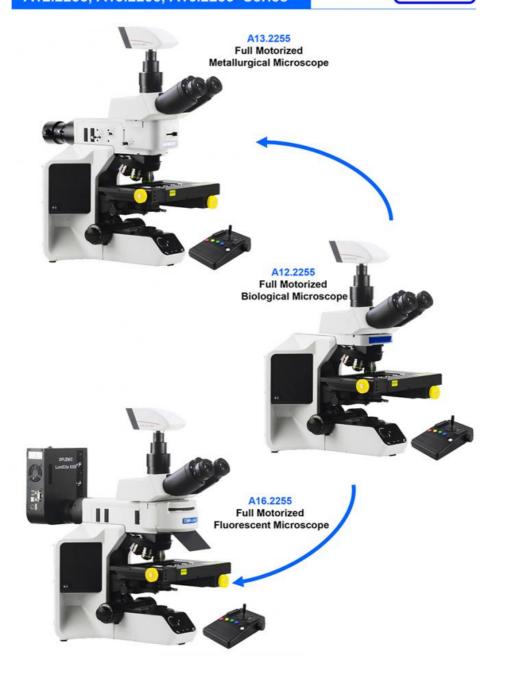
MPLFLN Infinity Plan Semi-APO EPI BD · Objective:

Objective

Abbe Condenser, N.A=1.1, 4x~100x . Condenser:

Full Motorized XYZRLCC, Infinity Plan Achromatic Optical System, Confocal 45mm
5 Holes BD Motorized Nosepiece, With Polarizing Slot
MPLFLN Infinity Plan Semi-APO EPI BD Objective 4x10x20x40x100x
Transmit Light Extra Large Power SUPERMLED 10W, ECO, Brightness Memory Function
XYZ Motorized Stage, Moving 118x76mm, 4 Slides Holder, Joystick Controller





### A12.2255, A13.2255, A16.2255 Motorize XYZRLCC



### A12.2255, A13.2255, A16.2255 Software

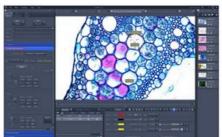




#### **Oplenic Professional Microscope Analysis Software, Support Function:**

- --Motorized XYZ Stage Control From Software
- --Motorized Fluorescent Band Switch From Software
- --Motorized Nosepiece Control Switch Objective Lens From Software
- --Calibration Auto Switch For Each Objective
- --Camera Parameter Auto Switch For Each Objective
- --Photo, Video Capture, Calibration & Measure, Parameter Adjustment etc.





A12.2255, A13.2255, A16.2255 Motorize Parts



### **High-Precision Electric Platform**

The electric platform (stepper motor) adopts the same connection and installation method as the ordinary manual stage. With only one bolt, the manual stage can be upgraded and replaced with an electric XY stage. The long X-axis travel can load 1-4 standard slides at same time. It comes with integrated control software, which can centrally operate and control all electronic components of the microscope.

#### **Encoded Electric Z-axis Accessories**

The encoded electric Z-axis accessories are composed of a dual-axis stepper motor and a multi-turn encoder, with a minimum step size of 0.8 degrees (360 degrees with 200 subdivisions). The encoder can provide real-time feedback of Z-axis coordinate data. The installation is simple and does not require any damage to the body structure. Only 2 screws are needed to complete the installation, and the structure is firm.





#### **Multifunctional computer drive**

It can achieve driving control of components such as the electric objective turntable (R), electric stage (XY), electric Z-axis (Z), camera external trigger, etc. It can communicate with the computer through RS232 and USB ports to achieve software control and programmed action processing.

#### Electric microscope joystick controller

Equipped with full control over the electric loading platform (XY), electric Z-axis (Z), and electric objective turntable (R), with high, medium, and low speed three speed switches. Change to precise control of XYZ, support up to 6 objective lenses for arbitrary switching, and need to be used in conjunction with M-DRV 200 multifunctional computer driver.







### Motorized Condenser

Abbe Condenser, N.A=1.1, 4x~100x

► Light Intensity Management (LIM)
SUPERMLED 10W LED Light House, Lifetime 60000 Hours, Wide Color Gamut 4500K Color Temperature, Kohler Illumination

### **▶** Button Control Magnification Switching

By touching the button on the body, the magnification of the objective can be switched easily, avoiding pollution, wear, and looseness caused by long-term contact with the objective lens.



#### ► Metallurgical Illuminator

EPI Reflect Illumination, with BF & DF Module, With Polarizing Slot

#### **▶** Fluorescent Illuminator

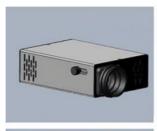
Turret Epi-Fluorescent Illumination, 4 Holes, Build-In UV, Blue, Green Excitation Module, With Polarizing Slot



#### **▶ Illumination System**

Lumi Cite Ultra-High Brightness, SUPERMLED High-Power And Wide Color Gamut LED Light, 60,000 Hours, 4500K Color Temperature, Sunlight Simulated

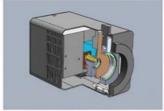




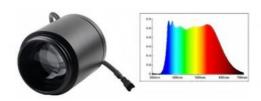


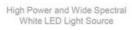














Ultra High Power and Wide Spectral White LED Light Source

A12.2255, A13.2255, A16.2255 Features



# Full Motorized .2255 Series Laboratory Research Microscope

- •Full Motorized XYZRLCC, Infinity Achromatic Plan Optical System, Confocal 45mm
- •UPLN or PLCN Infinity Plan Achromatic Objective, 4X, 10X, 20X, 40X, 100X
- •10W Wide Color Gamut LED Light, Color Temperature 4500K, Sunlight Simulated, Brightness =100W Halogen Lamp
- •5/6 Holes Coded Motorized Nosepiece, Support ECO, Brightness Memories
- •XYZ Motorized Stage, Moving 118x76mm, 4 Slides Holder, Joystick Controller

#### **Excellent Optical Properties**

The new ECGO infinite bidirectional chromatic aberration calibration system objective lens with a new optical architecture has three zoom distance designs of 45mm, 60mm, and 95mm, which can balance high resolution and long working distance, as well as special biology-specific 40x and 100x coverslip-free objective lenses, making it easier for users to capture microscopic structures of bacteria and chromosomes more clearly during coverslip-free sample detection.

#### Maintenance-free long-life light source

Transmission lighting uses SUPERMLEDIM large-scale LED light-emitting array packaged with multi-core stack technology, simulating solar light sources. The emission spectrum is uniform and continuous in the visible light range of 400nm to 650nm, with a constant temperature of 4500K. It has high-fidelity color reproduction ability for various stained specimens, especially for colors that are difficult to distinguish under ordinary LED lights such as cyan, purple, and pink, and has super strong color rendering ability.

#### **Antibacterial coating**

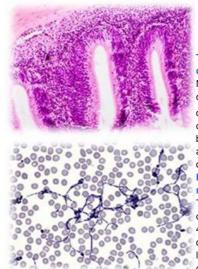
Microorganisms and viruses can be transmitted through contact, so we have treated all contact points with antibacterial additives to create a healthy laboratory environment.

#### Automatic light intensity management function:

By operating the LIMVSET key and dimming, different objective lenses can be independently set for brightness in advance, so that the brightness can always be maintained in the best state regardless of the magnification switch in daily use.

#### USB output to computer control

Through the USB data port at the back of the fuselage, it can be directly connected to the computer, and various electronic components of the microscope can be controlled through software, including cameras, stage objective lens turntables, bright field transmission light sources, fluorescent light sources, electric diaphragms, and electric polarizers.





# Tissue slice observation does not require cumbersome operations and complex settings

No special settings are required, and the factory mode can achieve perfect observation of tissue sections stained with conventional H. E staining; the specially designed simulated full-spectrum SUPERMLED<sup>TM</sup> high-power light source combined with the Kohler lighting system can easily obtain clear images with equal brightness, high contrast, and soft color temperature from 4x to 100x observation, and can easily distinguish stained colors such as blue, purple, and pink that are difficult to restore with high fidelity under ordinary microscopes

# High-contrast objective lenses for observing blood cells, chromosomes, and microorganisms

The new ECGO infinite bidirectional chromatic aberration calibration system objective lens with a new optical architecture has three zoom distance designs of 45mm, 60mm, and 95mm, which can balance high resolution and long working distance, as well as special biology-specific 40x and 100x coverslip-free objective lenses, making it easier for users to capture microscopic structures of bacteria and chromosomes more clearly during coverslip-free sample detection.

# A tool for observing details of animal and plant packaging - dark field condenser

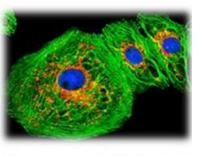
High-quality equal-path dark-field condenser provides more perfect dark-field illumination while suppressing the chromatic aberration of the objective lens, making the image edges of the observed sample sharp and clear, not only ensuring uniform background, but also ensuring uniform brightness throughout the field of view

#### Easy acquisition of high signal-to-noise ratio fluorescent images

Using a traditional fluorescence microscope to take high-quality fluorescence images takes up a long time for users: the background is not black enough, the signal is not strong enough, the details are unclear, and the quenching speed is too fast... Moreover, we use OD6 high transmittance IBS hard coating filter, self-developed ultra-high-power LumiCite series solid-state fluorescence dedicated light source, fluorite material high transmittance high-resolution fluorescence objective lens, electronic shutter, software programmed exposure control, making fluorescence shooting no longer difficult, and work efficiency has improved by leaps and bounds.

# Observation of polymer materials, starch, crystals, cosmetics, and traditional Chinese medicine - polarizing

For the above applications, high-performance polarizing accessories are essential. We use a seventh-generation thin polarizer with a higher extinction ratio and no change in color temperature to improve the orthogonal background contrast. The standard 45mm polarizer can be placed at the light source outlet, and the 30mm polarizer can be placed in the DIC slot of the objective lens turntable. It is extremely convenient to push in and pull out, and there is no need to increase the cost of purchasing additional slot accessories.





## A12.2255, A13.2255, A16.2255 Specification

## OPTO-EDU



A12.2255 A16.2255 A13.2255

Item.	A12.2253 Full Motorized Laboratory Biological Microscope Series	A12.2255 Biological	A16.2255 Fluorescent	A13.2255 Metallurgical	Model. No	Part No.
Optical System	ECGO Infinity Plan Mutual Achromatic Optical System, Confocal:	_	•	•		
	45mm	•	•	•		
	Standard Observation Method	BF	BF,FL	BF/DF		
	Optional Observation Method	DF,PH,PL,FL	DF,PH,PL	PL, DIC		
	SC53F Manual Body,					
	Power Supply For Both Transmit & Reflect Light, One Key Switch					
	T/R					
	Transmit Kohler Illumination Built-inLIM, Light Intensity Management, Brightness Memory & Restore	0	0	0	A54.2201-S53F	SC53F
	ECO, Auto Power Off Function					
	USB Port, Connect To Computer, Support Software Control					
	Microscope					
Main Body	SC53F2 Motorized XYZRLCC Body					
	All Funcitons of SC53F, Plus Computer Sotware Control:					
Focusing	Motorized X/Y/Z Stage Moving			0	A54.2201-	
Transmit	Motorized Revolving Nosepiece	0	0		S53F2	SC53F2
Light	Motorized Light Control					
LIM	Motorized Condenser Control					
Motorized	Motorized Capture Photo & Video					
	SC63F Motorized XYZRLCC Body					
	All Funcitons of SC53F, Plus Computer Sotware Control:					
	Motorized X/Y/Z Stage Moving, Z Axis With Grating Ruler	_	_	_	A54.2201-	SC63F
	Motorized Revolving NosepieceMotorized Light Control	•	•	•	S53F2	3063F
	Motorized Condenser Control					
	Motorized Capture Photo & Video					
	Arm For Installing Nosepiece, Fixed To Main Body By 4 Screws	•	/	/	A54.2201-SA	SC3-ARM
	Trinocular Head, Light Split (0/100, 50/50), FN=23mm	0	0	•	A53.2201-ST01	U-TR30
	Trinocular Head, Light Split (0/100, 50/50, 100/0), Ultra Wide			_		
	FN=26.5	•	•	0	A53.2201-ST02	U-1R30-2
	1.0x C-Mount, For Sensor 2/3"~4/3", Used With ST01, ST02	•	•	•	A55.2201-1xC	U-TV1XC+U- TVDP
	Focus Compensator For 1x C-Mount	•	•	•	A55.2201-1xC	U-TVDP
Head &	0.63x C-Mount, For Sensor 1/1.8"~ 2/3", Used With ST01, ST02	0	0	0	A55.2201-63xC	U-TV0.63XC
Video	0.5x C-Mount, For Sensor 1/2"~ 1/1.8", Used With ST01, ST02	0	0	0	A55.2201-05xC	U-TV0.5XC
Adapter	Erect Image Trinocular, Light Split (0/100, 50/50), Ultra Wide FN=26.5	0	0	0	A53.2201-ST03	U-SWTR
	0.63x C-Mount, For Sensor 1/1.8"~ 2/3", Used With ST03	0	0	0	A55.2201-63xB	U-TV0.63XB
	Erect Image Trinocular, Light Split (50/50), Ultra Wide FN=26.5, Tiltable 0-45°	0	0	0	A53.2201-ST04	U-TTR
	1.0x C-Mount, For Sensor 2/3"~4/3", Used With ST04	0	0	0	A55.2201-1xA	U-TV1XA
	0.63x C-Mount, For Sensor 1/1.8"~ 2/3", Used With ST04	0	0	0	A55.2201-63xA	U-TV0.63XA
	Ultra Wide Field 10x/23mm, Diopter Adjustable -2~+8°, With Eyecup	•	•	•	A51.2201-1023	WHN10X-H
Eyepiece	Ultra Wide Field 10x/25mm, Diopter Adjustable -2~+8°, With Eyecup	0	0	0	A51.2201-1025	SWHN10X-H
Суеріесе	Ultra Wide Field 10x/26.5mm, Diopter Adjustable -2~+8°, With Eyecup	0	0	0	A51.2201- 1026.5	SWH10X-H
Nosepiece	6 Holes Coded Manual Nosepiece, M20.32 Screw (RMS)	0	0	/	A54.2202-S6	SC3-D6RE
	6 Holes Motorized Nosepiece, M20.32 Screw (RMS)	•	•	/	A54.2203-6	M-6REA
	5 Holes Manual Nosepiece, M26 Screw, For BF/DF, Center Adjustable	/	/	0	A54.2202- UP5BD	U-P5RE-BD
	5 Holes <b>Motorized</b> Nosepiece, M26 Screw, For BF/DF	/	/	•	A54.2203-5BD	M-5BDREA
	5 Holes Motorized Nosepiece, M26 Screw, Center Adjustable	/	/	0	A54.2203-5CA	M-265RES
	, , , , , , , , , , , , , , , , , , , ,	,	,	<del>-</del>		2001120
	PLCN Infinity Plan Achromatic Objective, Cover Glass- 0.17				A51.2201	

	10X, N.A=0.25, W.D=10mm, OFN=23	0	0	/	A51.2202-10	PLCN10X
	20X, N.A=0.40, W.D=3mm, OFN=23	0	0	/	A51.2202-20	PLCN20X
	40X, N.A=0.65, W.D=0.6mm, OFN=23	0	0	/	A51.2202-40	PLCN40X
	60X, N.A=0.80, W.D=3mm, OFN=23	0	0	,	A51.2202-60	PLCN40X
Objective			_	,	1	
	100X, N.A=1.25, W.D=0.25mm, OFN=23	0	0	/	A51.2202-100	PLCN100XO
	UPLN Infinity Plan Achromatic Objective, Cover Glass- 0.17				A51.2203	
	4X, N.A=0.13, W.D=17mm, OFN=26.5	•	0	/	A51.2203-4	UPLN4X
	10X, N.A=0.30, W.D=10mm, OFN=26.5	•	0	/	A51.2203-10	UPLN10X
	20X, N.A=0.50, W.D=3mm, OFN=26.5	•	0	/	A51.2203-20	UPLN20X
	40X, N.A=0.75, W.D=0.6mm, OFN=26.5	•	0	1	A51.2203-40	UPLN40X
	· · · · · · · · · · · · · · · · · · ·		0	/	A51.2203-100	UPLN100XC
	100X, N.A=1.3, W.D=0.25mm, OFN=26.5	•	0	/		UPLINIUUXC
	UPLFLN Infinity Plan Semi-APO FL Objective, Cover Glass- 0.17				A5F.2201	
Fluorescent	4X, N.A=0.15, W.D=12mm, OFN=26.5	0	•	/	A5F.2211-4	UPLFLN4X
	10X, N.A=0.30, W.D=9mm, OFN=26.5	0	•	/	A5F.2211-10	UPLFLN10X
Objective	20X, N.A=0.65, W.D=23mm, OFN=26.5	0	•	/	A5F.2211-20	UPLFLN20X
	40X, N.A=0.9, W.D=0.7mm, OFN=26.5	0	•	/	A5F.2211-40	UPLFLN40X
	100X, N.A=1.3, W.D=0.3mm, OFN=26.5	0	•	/	A5F.2211-100	UPLFLN100
			-	,	+	OI LI LIVIOO
	MPLFLN Infinity Plan Semi-Apo EPI BF Objective				A5M.2211	
	5X, N.A=0.16, W.D=16mm, OFN=26.5	/	/	0	A5M.2211-5	MPLFLN5X
	10X, N.A=0.30, W.D=9mm, OFN=26.5	/	/	0	A5M.2211-10	MPLFLN10X
	20X, N.A=0.45, W.D=3mm, OFN=26.5	/	/	0	A5M.2211-20	MPLFLN20X
	50X, N.A=0.80, W.D=3mm, OFN=26.5	/	/	0	A5M.2211-50	MPLFLN50X
	100X, N.A=0.90, W.D=1.1mm, OFN=26.5	/	,	0		MPLFLN100
	, , , ,	-	,		+	1
	20X-L, N.A=0.40, W.D=12mm, OFN=26.5	/	/	0		LMPLFLN20
	50X-L, N.A=0.60, W.D=9.5mm, OFN=26.5	/	/	0	A5M.2211-50L	LMPLFLN50
	100V I NIA 0 90 W D 2 OFN 90 F	,	,	_	AEM 0011 100:	LMDLEARA
	100X-L, N.A=0.80, W.D=3mm, OFN=26.5	/	/	0	A5M.2211-100L	LIVIPLFLN10
	NEOPLAN Infinity Semi-APO FL EPI BF Objective,				A5M.2212	
letallurgical	High Resoluiton For Industry Fluorescent Observation					
F Objective	2.5X, N.A=0.08, W.D=10mm, OFN=26.5	/	/	0	A5M.2212-2.5	NEOPLAN2.
	5X, N.A=0.16, W.D=15mm, OFN=26.5	/	/	0	A5M.2212-5	NEOPLAN5
	10X, N.A=0.30, W.D=15mm, OFN=26.5	/	/	0	A5M.2212-10	NEOPLAN10
	20X, N.A=0.55, W.D=5mm, OFN=26.5	/	/	0	A5M.2212-20	NEOPLAN20
					+	1
	20X-L, N.A=0.50, W.D=9mm, OFN=26.5	/	/	0	A5M.2212-20L	NEOPLAN20
	20X-L, N.A=0.45, W.D=12mm, OFN=26.5	/	/	0	A5M.2212-	NEOPLAN2
	, , , , , , , , , , , , , , , , , , , ,				20SL	L
	50X, N.A=0.85, W.D=1mm, OFN=26.5	/	/	0	A5M.2212-50	NEOPLAN50
	50X-L, N.A=0.80, W.D=2mm, OFN=26.5	/	/	0	A5M.2212-50L	NEOPLAN50
					A5M.2212-	NEOPLAN50
	50X-L, N.A=0.55, W.D=8.7mm, OFN=26.5	/	/	0	50SL	L
	100X-L, N.A=0.80, W.D=3.1mm, OFN=26.5	/	/	0	A5M.2212-100	NEOPI AN1
		,	,			11201 25 1111
	MPLFLN Infinity Plan Semi-APO EPI BD Objective				A5M.2215	
	5X, N.A=0.16, W.D=16mm, OFN=26.5	/	/	•	A5M.2215-5	MPLFLN5XE
	10X, N.A=0.30, W.D=9mm, OFN=26.5	/	/	•	A5M.2215-10	MPLFLN10X
	20X, N.A=0.45, W.D=3mm, OFN=26.5	/	/	0	A5M.2215-20	MPLFLN20X
	50X, N.A=0.80, W.D=3mm, OFN=26.5	/	/	0	A5M.2215-50	MPLFLN50X
	100X, N.A=0.90, W.D=1.1mm, OFN=26.5	/	/	0	A5M.2215-100	MPLFLN100
	, , , ,	-	,			
	20X-L, N.A=0.40, W.D=12mm, OFN=26.5	/	/	•	A5M.2215-20L	LMPLFLN20
	50X-L, N.A=0.60, W.D=5mm, OFN=26.5	/	/	•	A5M.2215-50L	LMPLFLN50
	100X-L, N.A=0.80, W.D=3mm, OFN=26.5	/	/	•	A5M.2215-100L	LMPLFLN10
letallurgical	100X 2, 1111-0.00, 1115-0.1111, 0111-20.0	,	,	·	7101111221011002	D
BF/DF	MXAPO Infinity Plan Semi-APO FL EPI BD Objective	_				
Objective	High Resoluiton For Industry Fluorescent Semi-Conductor				A5M.2216	1
Objective	Observation					1
	5X, N.A=0.15, W.D=15mm, OFN=26.5	/	/	0	A5M.2216-5	MXAPO5XB
	· · · · · · · · · · · · · · · · · · ·			0	A5M.2216-10	MXAPO10X
	10X N A=0.30 W D=14mm OFN=26.5	/	/		, NOIVILEE 10-10	MINULOIUX
	10X, N.A=0.30, W.D=14mm, OFN=26.5	/	/		A F N A CO 4 C C C	MANABOSS
	20X, N.A=0.55, W.D=4mm, OFN=26.5	/	/	0	A5M.2216-20	
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5				A5M.2216-20 A5M.2216-50	MXAPO50X
	20X, N.A=0.55, W.D=4mm, OFN=26.5	/	/	0	1	MXAPO50X
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5	/	/	0	A5M.2216-50	MXAPO50XI
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5	/ /	/ /	0 0	A5M.2216-50 A5M.2216-100	MXAPO50XI MXAPO100X MXAPO20XI
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5	/ / / /	/ / / /	0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L	MXAPO50XI MXAPO100XI MXAPO50XI
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5	/ / /	/ / /	0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L	MXAPO50XI MXAPO100X MXAPO20XI MXAPO50XI
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5	/ / / /	/ / / /	0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L	MXAPO50XI MXAPO100X MXAPO20XI MXAPO50XI
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5	/ / / /	/ / / /	0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L	MXAPO50XI MXAPO100XI MXAPO50XI
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 40X-L, N.A=0.85, W.D=3mm, OFN=26.5	/ / / /	/ / / /	0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L	MXAPO50X MXAPO1002 MXAPO20X MXAPO50X
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 40X-L, N.A=0.85, W.D=3mm, OFN=26.5	/ / / / /	/ / / / /	0 0 0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L A5M.2231	MXAPO50X MXAPO1003 MXAPO20X MXAPO50X MXAPO1003 L
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 40X-L, N.A=0.85, W.D=3mm, OFN=26.5	/ / / /	/ / / /	0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L	MXAPO50X MXAPO1003 MXAPO20X MXAPO50X MXAPO1003 L
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 40X-L, N.A=0.85, W.D=3mm, OFN=26.5	/ / / / /	/ / / / /	0 0 0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L A5M.2231	MXAPO50XI MXAPO1003 MXAPO50XI MXAPO1003 L MYAPO1003 MYAPO1003
I.W/D	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 20X-L, D.A=0.85, W.D=3mm, OFN=26.5 MPLSAPO Infinity Plan APO FL LWD Objective, Confocal 95mm For Large Sample, High Temperature Heating Sample Observation 2X, N.A=0.06, W.D=35mm, OFN=26.5	/ / / / /	/ / / / /	0 0 0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L A5M.2231	MXAPO50X MXAPO1003 MXAPO20X MXAPO50X MXAPO1003 L MPLSAPO2 MPLSAPO2
LWD	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5  MPLSAPO Infinity Plan APO FL LWD Objective, Confocal 95mm For Large Sample, High Temperature Heating Sample Observation 2X, N.A=0.06, W.D=35mm, OFN=26.5 5X, N.A=0.15, W.D=45mm, OFN=26.5 10X, N.A=0.30, W.D=35mm, OFN=26.5	/ / / / /	/ / / / / / / / / / / / / / / / / / /	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L A5M.2231 A5M.2231-2 A5M.2231-5 A5M.2231-10	MXAPO50X MXAPO1003 MXAPO20X MXAPO50X MXAPO1003 L MPLSAPO2 MPLSAPO5 MPLSAPO1
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5  MPLSAPO Infinity Plan APO FL LWD Objective, Confocal 95mm For Large Sample, High Temperature Heating Sample Observation 2X, N.A=0.06, W.D=35mm, OFN=26.5 5X, N.A=0.15, W.D=45mm, OFN=26.5 10X, N.A=0.30, W.D=35mm, OFN=26.5 20X, N.A=0.45, W.D=21mm, OFN=26.5	/ / / / / / / / / / / / / / / / / / /		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L A5M.2231 A5M.2231-2 A5M.2231-5 A5M.2231-10 A5M.2231-20	MXAPO50XI MXAPO100X MXAPO50XI MXAPO100X L  MPLSAPO2: MPLSAPO5: MPLSAPO1I MPLSAPO2: MPLSAPO2: MPLSAPO2:
LWD Objective	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5  MPLSAPO Infinity Plan APO FL LWD Objective, Confocal 95mm For Large Sample, High Temperature Heating Sample Observation 2X, N.A=0.06, W.D=35mm, OFN=26.5 5X, N.A=0.15, W.D=45mm, OFN=26.5 10X, N.A=0.30, W.D=35mm, OFN=26.5 20X, N.A=0.45, W.D=21mm, OFN=26.5 50X, N.A=0.75, W.D=21mm, OFN=26.5				A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L A5M.2231 A5M.2231-2 A5M.2231-5 A5M.2231-10 A5M.2231-20 A5M.2231-50	MXAPO50XI MXAPO100X MXAPO50XI MXAPO100X L  MPLSAPO5X
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5  MPLSAPO Infinity Plan APO FL LWD Objective, Confocal 95mm For Large Sample, High Temperature Heating Sample Observation 2X, N.A=0.06, W.D=35mm, OFN=26.5 5X, N.A=0.15, W.D=45mm, OFN=26.5 10X, N.A=0.30, W.D=35mm, OFN=26.5 20X, N.A=0.45, W.D=21mm, OFN=26.5 50X, N.A=0.75, W.D=12mm, OFN=26.5	/ / / / / / / / / / / / / / / / / / /			A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L A5M.2231 A5M.2231-2 A5M.2231-5 A5M.2231-10 A5M.2231-20 A5M.2231-50 A5M.2231-100	MXAPO50XI MXAPO100XI MXAPO50XI MXAPO100X L  MPLSAPO20XI MPLSAPO50XI
	20X, N.A=0.55, W.D=4mm, OFN=26.5 50X, N.A=0.80, W.D=4mm, OFN=26.5 100X, N.A=0.90, W.D=1mm, OFN=26.5 20X-L, N.A=0.50, W.D=9mm, OFN=26.5 50X-L, N.A=0.85, W.D=1mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5 20X-L, N.A=0.85, W.D=3mm, OFN=26.5  MPLSAPO Infinity Plan APO FL LWD Objective, Confocal 95mm For Large Sample, High Temperature Heating Sample Observation 2X, N.A=0.06, W.D=35mm, OFN=26.5 5X, N.A=0.15, W.D=45mm, OFN=26.5 10X, N.A=0.30, W.D=35mm, OFN=26.5 20X, N.A=0.45, W.D=21mm, OFN=26.5 50X, N.A=0.75, W.D=21mm, OFN=26.5				A5M.2216-50 A5M.2216-100 A5M.2216-20L A5M.2216-50L A5M.2216-100L A5M.2231 A5M.2231-2 A5M.2231-5 A5M.2231-10 A5M.2231-20 A5M.2231-50	MXAPO20XE MXAPO50XE MXAPO50XE MXAPO50XE MXAPO100X L  MPLSAPO20XE MPLSAPO50

	[		1 1		T	<u></u>
	Adapter to Raise Height 40mm For A5M.2231 APO 95mm Objectives	0	0	0	A5M.2231-HA	BX3M-ARMAD
Madina	Manual Working Stage 3"x2", 255x160mm, Moving 55x75mm, Ultra Hard Nano Wear-resistant Ceramic Coating, With Damping Adjust Ring (Same As Olympus)	0	0	0	A54.2204-O32	U-SVRB
	Manual Working Stage 4"x4", Ultra Hard Nano Wear-resistant Ceramic Coating, With Damping Adjust Ring (Same As Olympus)	0	0	0	A54.2204-O44	U-SVRM
Working Stage	Double Slide Holder, For Left Hand Use	0	0	/	A54.2204-SH	U-HLDT
Olago	Metal Sample Holder, 3"x2", With Metal Plate For Reflect Light	/	/	0	A54.2204-M32	U-MSSP
	Metal Sample Holder, 3"X3", With Glass Plate For Reflect & Transmit Light	/	/	0	A54.2204-M33	U-MSSPG2
	Metal Sample Holder, 4"X4", With Glass Plate For Reflect & Transmit Light	/	1	0	A54.2204-M44	U-MSSPG
	Abbe Condenser, N.A=1.1, 4x~100x	•	•	•	A56.2201-11	U-AC2
Condenser	Achromatic Aplanatic Condenser, N.A=1.4, 10x~100x	0	0	/	A56.2201-14	U-AAC
	Manual Swing-out Condenser N.A=0.9, 1.25x~100x (1.25x~4x When Swing Out)	0	0	/	A56.2201-S	U-SC3
	Motorized Swing-out Condenser N.A=0.9, 1.25x~100x (1.25x~4x When Swing Out)	0	0	/	A56.2201-SM	U-ACE
Focusing	Coaxial Coarse & Fine Focusing, With Safety Stop Lock Ring, With Tension Adjust Ring, Focusing Range 27mm, Coarse Stroke 17.6mm, Fine Stroke 0.1m, Fine Scale 1µm;	•	•	•		
Transmit	SUPERMLED 10W LED Light House, Life Time 60000 Hours, Wide Color Gamut 4500K Color Temperature, Kohler Illumination	•	•	•	A56.2204-1	U-LHLEDC10
Illumination	SUPERMLED 18W LED Light House, Life Time 60000 Hours, Wide Color Gamut 4500K Color Temperature, Kohler Illumination	0	0	0	A56.2204-2	U-LHLEDC20
	Epi Fluorescent Turret Illuminator, With 4 Position, With Polarizing Slot	/	•	/	A5F.2201	SC3-URS
	Lumi Cite 9100 Solid LED Extra Large Power Illuminator, Preset 4 Wavelengths of Excitation, Wavelength 340~750nm, <b>80W</b> , Support DAPI, FITC, TRITC, TxRed, Cy5	/	0	/	A5F.2201-L91	Lumi Cite 9100
	Solid LED Light Source Dimmer For Lumi Cite 9100	/	0	/	A5F.2201-LC91	LUC-05
Reflect	Lumi Cite 9300 Solid LED Extra Large Power Illuminator, Preset 4 Wavelengths of Excitation, Wavelength 330~750nm, <b>130W</b> , Support DAPI, FITC, TRITC, TxRed, Cy5	/	•	/	A5F.2201-L93	Lumi Cite 9300
Fluorescent	Solid LED Light Source Dimmer For Lumi Cite 9300		•		A5F.2201-LC93	LUC-06
Illumination	USB 2.0 Cable Length 2m, Connect Illuminator to Controller or Computer	/	•	/	A50.2202-3	USB220-ATB
	Chinese Standard Power Adapter 220V/12V/120W DC, For Solid LED Illuminator	/	•	/	A50.2203-5	GST120A12- R7B
	Solid LED Light Source Optical Adapter	/	•	/	A5F.2201-OLY	MOT-OLY
	UV Long Pass Exciter: BP340-390, Emitter: BA420IF, Dichroic: DM410	/	•	/	A5F.2210-UVL	U-FUW
	B Long Pass Exciter BP460-495, Emitter: BA510IF, Dichroic: DM505	/	•	/	A5F.2210-BL	U-FBW
	G Long Pass Exciter: BP530-550, Emitter: BA575I, Dichroic: DM570	/	•	/	A5F.2210-GL	U-FGW
Reflect Metallurgical	Epi Metallurgical Reflect Illuminator, With BF/DF Module, Polarizing Slot	/	/	•	A5M.2201-SC	SC3-RLA
Illumination	5W LED Light House, Life Time 60000 Hours, 4500K Color Temperature	/	/	•	A5M.2201-LH1	BX3M-LEDR
Dark Field	Dark Field Condenser (Dry), N.A=0.92, 10x~100x	0	0	/	A5D.2201-D	U-DCD
	Dark Field Condenser (Oil), N.A=1.4, 10x~100x	0	0	/	A5D.2201-I	U-DCW
	Universal Turret Phase Contrast Condenser, Support BF, DF, PH1, PH2, PH3	0	0	/	A5C.2201	U-PCD2
	Green Filter For Phase Contrast Dia.45mm	0	0	/	A5C.2201-G45	43IF550-W45
	UPLFLN Infinity Plan Semi-APO FL Phase Contrast Objective			/	450.00:-	LIDI S
Phase	4x, N.A=0.15, CG=0.17, W.D=12mm, OFN=26.5	0	0	/	A5C.2212-4	UPLFLN4XPH
Contrast	10x, N.A=0.30, CG=0.17, W.D=9mm, OFN=26.5	0	0	/	A5C.2212-10	UPLFLN10XPI
	20x, N.A=0.65, CG=0.17, W.D=2.3mm, OFN=26.5	0	0	/	A5C.2212-20	UPLFLN20XPI
	40x, N.A=0.90, CG=0.17, W.D=0.7mm, OFN=26.5	0	0		A5C.2212-40	UPLFLN40XPI UPLFLN100XC
	100x, N.A=1.30, CG=0.17, W.D=0.3mm, OFN=26.5  Polarizing Round Working Stage 360° Rotatable With Scale, Center	•	0	/	A5C.2212-100	Н
	Adjustable, Work With Center Adjustable Nosepiece	0	0	0	A54.2204-R	U-SRP
	Transmit Polarizer Filter Dia.45mm, Put On Transmit Light Port	0	0	0	A5P.2201-P45	RG-45-POL
Polarizing	Transmit Analyzer, Insert In Nosepiece Slot	0	0	0	A5P.2201-P30	RG-30-POL
	Transmit Analyzer Holder	0	0	0	A5P.2201-P45H	U- ANT_HOLDER
	Reflect Polarizer Slide, Insert In Reflect Illuminator Slot.	/	0	0	A5P.2201-A	U-PO3
	Reflect Analyzer Slide, Rotate 360°, Insert In Reflect Illuminator Slot.	/	0	0	A5P.2201-A3	U-AN360-3
DIC	DIC Slider For Reflect Light 3.0M USB 2.0 Camera, Sony 1/2" Color CMOS, Work With 0.5x C-	/	/	0	A5C.2210 A59.2271-3M	U-DICR D3000-C
	Mount 6.3M USB 3.0 Camera, Sony 1/1.8" Color CMOS, Work With					
	0.5x/0.63x C-Mount	0	0	0	A59.2271-6.3M	D630

Digital	20M USB 3.0 Camera, Sony 1" Color CMOS, Work With 1x C-Mount	0	0	0	A59.2271-20M	D2000
Camera	8.0M USB 3.0 Fluorescent Semi-Conductor Cooling Camera, Sony 1"	0	0	0	A59.2272-8M	PSC603-08H
	Color CMOS, Work With 1x C-Mount					
	12.8M USB3.0 Fluorescent Semi-Conductor Cooling Camera, Sony				A59.2272-	PSC603-12H
	1" Color CMOS, Work With 1x C-Mount		, i		12.8M	. 00000 1211
	Oplenic Professional Microscope Analysis Software, Support					
	Function:					
Software	Motorized XYZ Stage Control From Software					
	Motorized Fluorescent Band Switch From Software				Comes With I	Digital Camera,
	Motorized Nosepiece Control Switch Objective Lens From Software	•	•	•	No Need Or	der Separately
	Calibration Auto Switch For Each Objective					
	Camera Parameter Auto Switch For Each Objective					
	Photo, Video Capture, Calibration & Measure, Parameter					
	Adjustment etc.		L			
	Motorized System, Work With SC53F2, SC63F Motorized Body, No.	ed To Order	Full Set:		1	I
	Motorize X/Y Stage,					
	Surface Treatment: Anodizing + Wear-resistant Ceramic Coating					
	Moving Range 118x76mm					
	Max Speed 150mm/s (2mm Ball Screw Pitch)					
	Repetitive Positioning Accuracy: Bidirectional <1µm					
	Positioning Accuracy ± 2µm	•	•	•	A54.2206-30	HSG3000
	Resolution Minimum Step Size 0.03μm					
	Verticality<10 arcsec					
	Two-phase Stepper Motor					
	Eliminating Gaps Ball Screw					
	Weight 3.5kg,					
	SDK Support				1	
	4 Slides Holder For Motorized X/Y Stage	•	•	•	A54.2206- 30SH4	HSG-HLDT3
Motorized	Motorized Z Axis With Coded System, Directly Install On SC53F					
System	Body					
	Surface Treatment: Anodic Oxidation					
	Subdivision Accuracy: 200 Steps					
	Step Angl: 1.8°					
	Multi Circle Encoding: Support					
	Step Accuracy: ±0.01μm	•	•	•	A54.2207-3	GFDBX3
	Drive Motor: Two-phase Stepper Motor					
	Connection Method: Rigid Coupling					
	Computer Control: Support					
	Handle Control: Support					
	Weight: 0.85kg					
	SDK Support					
	Quarc Controller, Support Computer Software Control Motorized XYZ				A54.2208-M200	M-DRV-200
	Stage + Motorized Nosepiece, Power 24V DC		_	_		
	Toton Joystick, Directly Control Motorized XYZ Stage + Motorized		•		A54.2208-MCP	M-CP2
	Nosepiece				710 HZ200 HIG.	0. 2
	Immersion Oil 8ml, Reflect Ratio=1.518, Low Viscosity (135CST)	•	•	•	A50.2201-1	IMMOIL-8CC
	Chinese Standard Power Adapter 220V/24V/36W DC	•	•	•	A50.2203-2	GST36U24-P1
Other	Dust Cover	•	•	•	A50.2204-1	COVER-03
00101	Latex Gloves	•	•	•	A50.2204-2	WF7.5MR
				1	450,0004.0	MR6-T43
	Hexagonal Tool Kit 3#, 4#	•	•	•	A50.2204-3	WIN0-143

### A12.2255, A13.2255, A16.2255 Accessories



A54.2201-S53F Manual Main Body



A54.2201-S53F2, S63F Full Motorized Main Body



A54.2201-SA



A53.2201-ST01



A53.2201-ST02



A55.2201-1xC



A53.2201-ST03



A53.2201-ST04



A55.2201-1xA



A55.2201-63xA



A55.2201-63xB



A55.2201-63xC



A55.2201-05xC









A51.2201-1023

A51.2201-1025

A51.2201-1026.5

A54.2202-S6









A54.2203-6

A54.2202-UP5BD

A54.2203-5BD

A54.2203-5CA











A51.2202 (PLCN Infinity Plan Achromatic Objective)











A51.2203 (UPLN Infinity Plan Achromatic Objective)











A5F.2211 (Fluorescent Objective: UPLFLN Infinity Plan Semi-APO FL Objective)



A5M.2231 (LWD Objective: MPLSAPO Infinity Plan APO FL LWD Objective)



A5M.2211 (Metallurgical BF Objective: MPLFLN Infinity Plan Semi-Apo EPI BF Objective)



A5M.2212 (Metallurgical BF Objective: NEOPLAN Infinity Semi-APO FL EPI BF Objective)



A5M.2215 (Metallurgical BF/DF Objective: MPLFLN Infinity Plan Semi-APO EPI BD Objective)



A5M.2216 (Metallurgical BF/DF Objective: MXAPO Infinity Plan Semi-APO FL EPI BD Objective)



A5C.2212 (Phase Contrast Objective: UPLFLN Infinity Plan Semi-APO FL Phase Contrast Objective)







A54.2204-O32

A54.2204-O44

A54.2204-SH







A54.2204-M32

A54.2204-M33

A54.2204-M44











A56.2201-S

A56.2201-11

A56.2201-14

A56.2204-1

A56.2204-2







A5F.2201

A5F.2201-L93

A5F.2201-L91









A5F.2201-LC93

A5F.2201-LC91

A50.2202-3

A50.2203-5







A5F.2210-GL



A5F.2210-BL







A5M.2201-SC



A5D.2201-D









A5D.2201-I

A54.2204-R



A5C.2201-G45



A5P.2201-P30











A5M.2231-HA









A59.2271-3M



A59.2271-20M

A59.2272-8M

A59.2272-12.8M











A54.2206-30

A54.2206-30SH4

A54.2207-3

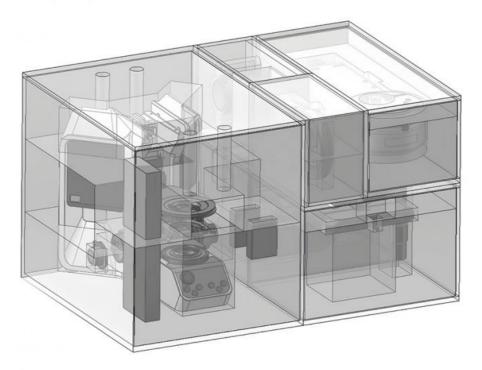
A54.2208-M200

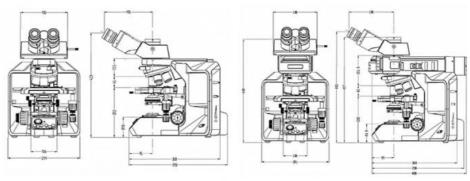
A54.2208-MCP

### A12.2255, A13.2255, A16.2255 Dimension



Carton Box: 695mm X 480mm X 435mm Gross Weight: 30kg



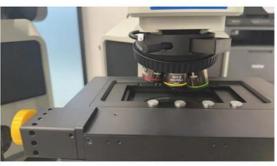


Unit: mm

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## A12.2255, A13.2255, A16.2255 More Pictures





















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