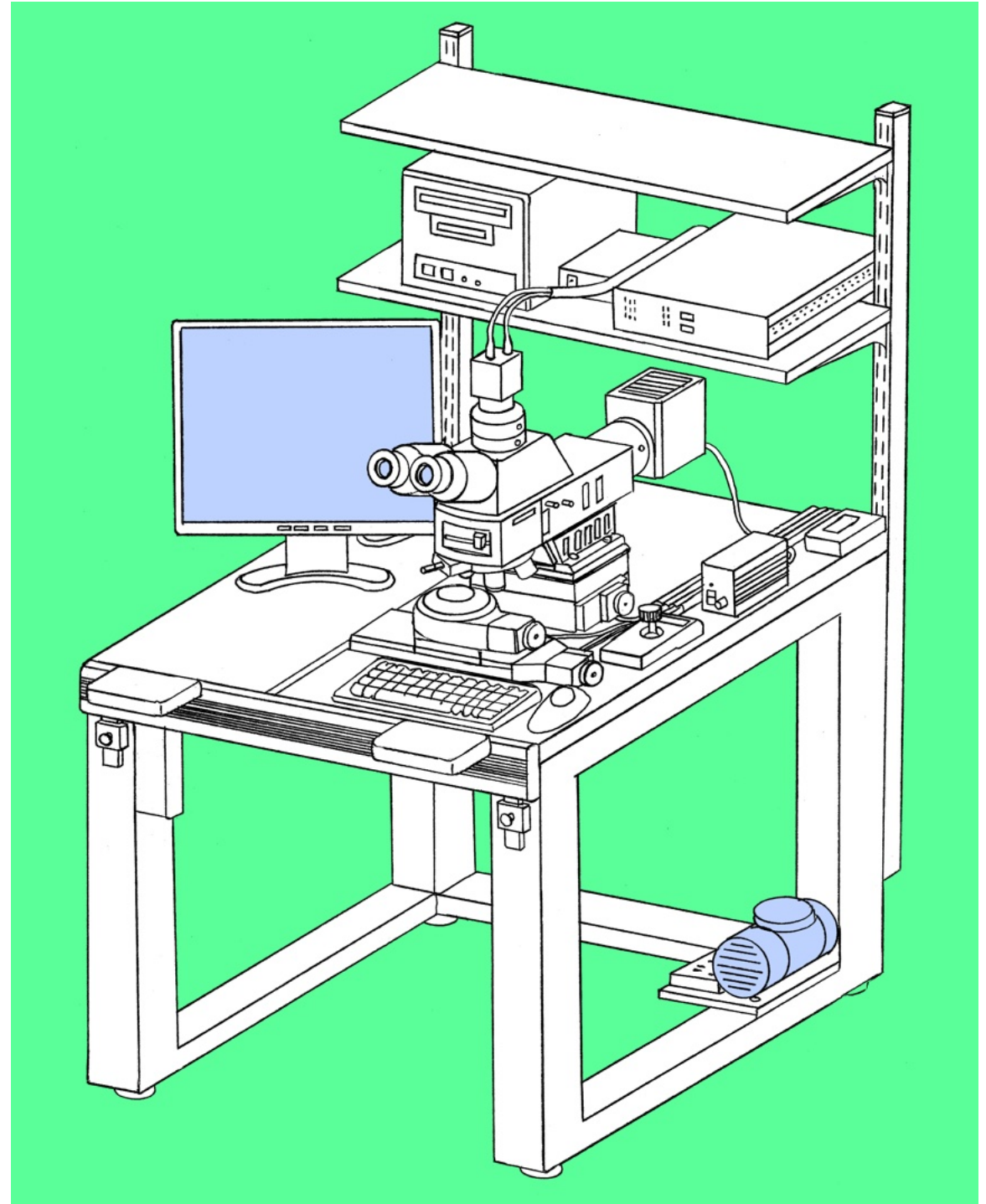


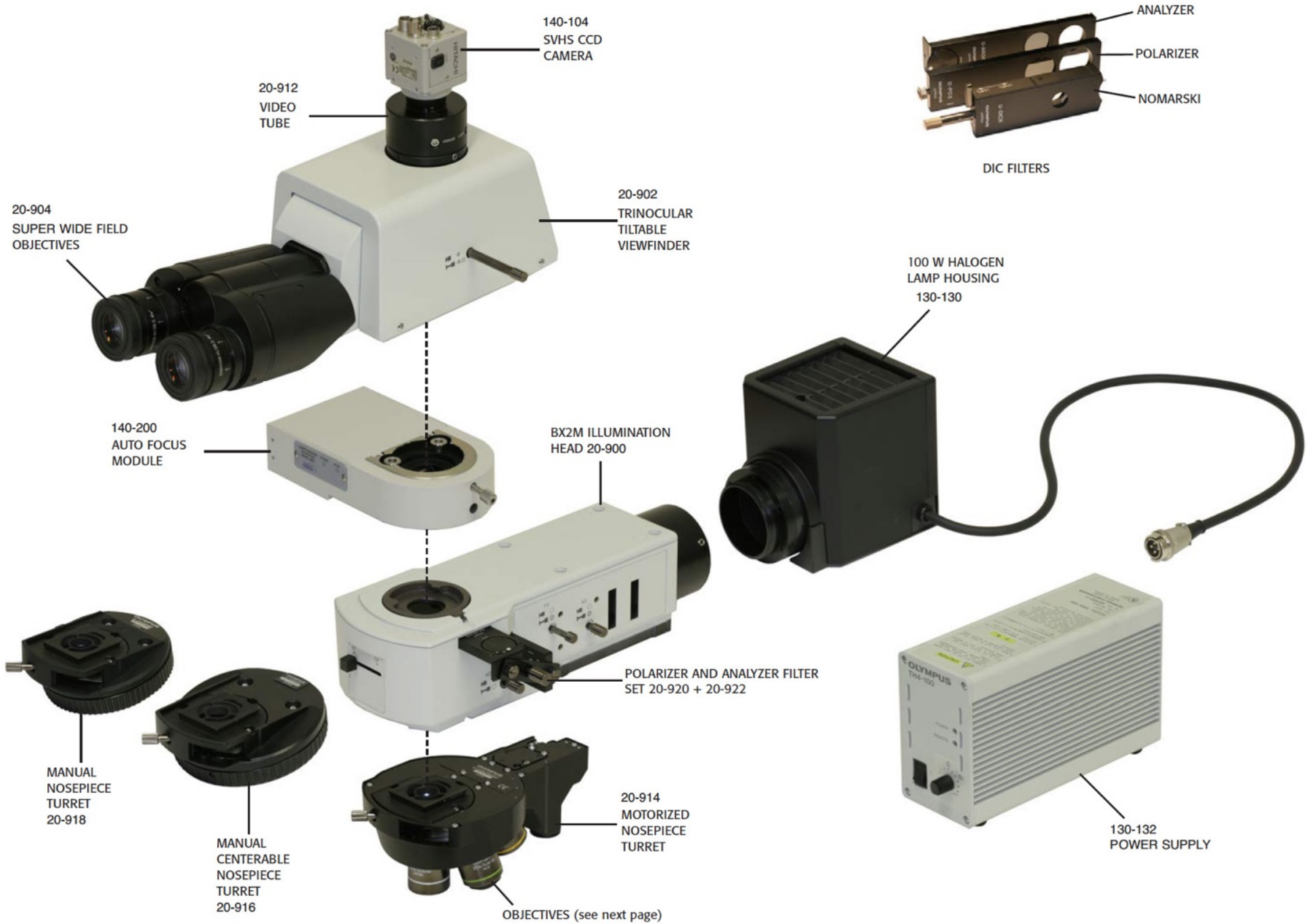
Inspection Microscope Workstation

Versatile Inspection
Workstation for
Silicon Wafer, and
Magnetic Media

www.optoform.com



5.6 OLYMPUS MODULAR MICROSCOPE



OLYMPUS OPTOMECHANICAL COMPONENTS

PART #	DESCRIPTION
20-900	BX2M Reflected Light complete illumination Head Assembly with open slots for filters, viewfindres, light sources, and nosepieces

OLYMPUS OBSERVATION HEADS

PART #	DESCRIPTION
20-902	Superwide Tilting Trinocular Observation Head, with 0~60° inclined viewing
20-904	Superwide Eyepiece (Two required for 20-902)
20-906	Widefield Erect Image Trinocular Observation Head with 60° inclined viewing
20-908	Tilting Binocular Head for observation only, with 0~60° inclined viewing
20-910	WHN 10X Eyepiece (Two required for 20-906/908)
20-912	C-Mount Camera Adapter complete

OLYMPUS OBJECTIVE TURRETS FOR BX2M

PART #	DESCRIPTION
20-914	5 position Motorized Nosepiece
20-916	5 position Centerable Nosepiece
20-918	5 position Standard Nosepiece

OLYMPUS ILLUMINATION COMPONENTS FOR BX2M

PART #	DESCRIPTION
130-130	Halogen Lamp Housing, 100 W, 3ft cable
130-132	Power Supply for Halogen Lamp Housing 130-130
130-134	Remote Control for the Halogen Lamp Housing 130-130
130-136	Xenon Lamp Housing, 75 W, with 3ft cable
130-138	Power Supply for Xenon Lamp Housing 130-136
130-140	Mercury Lamp Housing, 100 W, with 3ft Cable
130-142	Power Supply for Mercury Lamp housing 130-140, with adjustable output

OPTOELECTRONICS COMPONENTS

PART #	DESCRIPTION
140-200	Auto Focus Unit, with Laser Track
20-714	IR block filter for the Auto Focus Unit
140-208	USB I/O Interface box for Auto Focus Unit with Power Supply



PULL OUT LEVER FOR SHORT/LONG WORKING DISTANCE OBJECTIVES

20-924 STANDARD NOMARSKI PRISM

20-928 HIGH CONTRAST NOMARSKI PRISM SLIDER



Standard Nomarski Prism for DIC MICROSCOPY, compared to the HC version. The U-DICR is intended for long working distance objectives, specially the 150X and 250X which could utilize more contrast enhancement.

OLYMPUS NOMARSKI PRISM AND POLARIZER/ANALYZER COMPONENTS FOR THE BX2M SYSTEM

PART #	DESCRIPTION
20-920	U-AN360-3 Rotatable Analyzer for Illumination Head 20-900
20-922	U-P03 Polarizer Slider W/Lock works with analyzer above
20-924	U-DICR Nomarski Prism Slider, Standard Version
20-926	U-DICRH Nomarski Prism Slider, High Resolution Version
20-928	U-DICRHC Nomarski Prism Slider, High Contrast Version
00-400	Scriber unit, with interchangeable Diamond tip

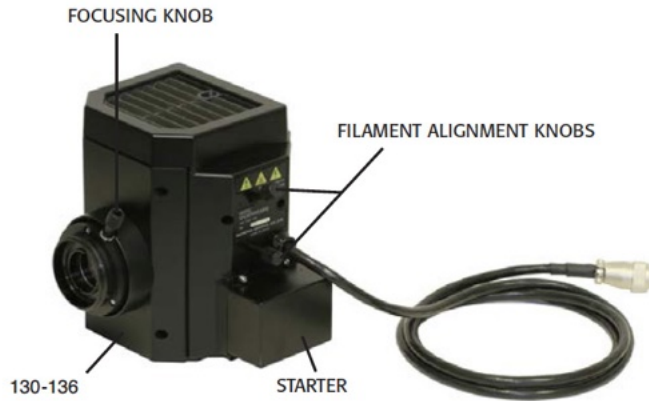
OLYMPUS UMPLFL MICROSCOPE OBJECTIVES SPECIFICATIONS

Objective	Numerical Ap.	Working Dis.	Focal Length	Depth of Focus	Weight	FOV (WF)	Magnification	Depth of Focus	FOV (SWF)
UMPLFL5X	0.15	12.0 mm	36.0 mm	59.0 μ	120 g	4.4 mm	50 X	59 μ	5.3 mm
UMPLFL10X	0.30	6.5 mm	18.0 mm	15.0 μ	160 g	2.2 mm	100 X	15 μ	2.7 mm
UMPLFL20X	0.46	3.0 mm	9.0 mm	5.10 μ	150 g	1.1 mm	200 X	5.1 μ	1.3 mm
UMPLFL50X	0.80	0.66 mm	3.60 mm	1.30 μ	160 g	0.44 mm	500 X	1.3 μ	0.53 mm
UMPLFL100X	0.90	0.31 mm	1.80 mm	0.73 μ	180 g	0.22 mm	1000 X	0.73 μ	0.27 mm

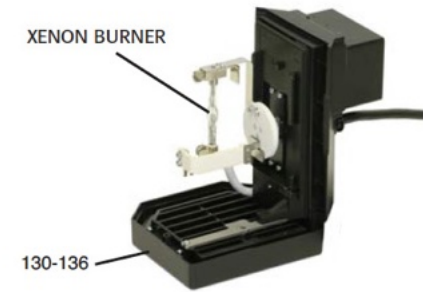
Olympus BX2M is among the highest quality and flexibility in both biological, and industrial inspection microscope systems. There are 5 illumination heads, 8 viewfinders, 9 nosepiece turrets, 6 video tubes, 5 lamp housings, 53 objectives, and over 25 filters to choose from. Table above, describes the general characteristics of the UMPLFL objectives (opposite page). The field of view is given for both widefield (WF) eyepieces (20-910), and super wide field (SWF) eyepieces (20-904).



XENON LAMP POWER SUPPLY WITH LCD LIFE TIME METER



XENON LAMP HEAD SHOWN WITH LAMP ALIGNMENT KNOBS



XENON LAMP HEAD WITH THE COVER REMOVED

OLYMPUS INFINITY CORRECTED OBJECTIVES FOR THE BX2M

PART #	DESCRIPTION		
20-930	UMPLFL5XBD	Objective lens 5X,	For Metallurgical use, High Resolution Applications
20-932	UMPLFL10XBD	Objective lens 10X	For Metallurgical use, High Resolution Applications
20-934	UMPLFL20XBD	Objective lens 20X	For Metallurgical use, High Resolution Applications
20-936	UMPLFL50XBD	Objective lens 50X	For Metallurgical use, High Resolution Applications
20-938	UMPLFL100XBD	Objective lens 100X	For Metallurgical use, High Resolution Applications
20-940	LMPLFL5XBD	Objective lens 5X	For Metallurgical use, Long Working Distance Applications
20-942	LMPLFL10XBD	Objective lens 10X	For Metallurgical use, Long Working Distance Applications
20-944	LMLFL20XBD	Objective lens 20X	For Metallurgical use, Long Working Distance Applications
20-946	LMLFL50XBD	Objective lens 50X	For Metallurgical use, Long Working Distance Applications
20-948	LMLFL100XBD	Objective lens 100X	For Metallurgical use, Long Working Distance Applications
20-950	LMLFL150XBD	Objective lens 150X	For Metallurgical use, Long Working Distance Applications
20-952	LMLFL250XBD	Objective lens 250X	For Metallurgical use, Long Working Distance Applications
20-954	MPLAPDO 1.25X	Objective lens 1.25X	For Biological Applications (No Dark Field in Metallurgical use)
20-956	MPLAPDO 2.5X	Objective lens 2.5X	For Biological Applications (No Dark Field in Metallurgical use)
20-958	MPLAPDO 20X	Objective lens 20X	For Biological Applications (No Dark Field in Metallurgical use)
20-960	MPLAPDO 50X	Objective lens 50X	For Biological Applications (No Dark Field in Metallurgical use)
20-962	MPLAPDO 60X	Objective lens 60X	For Biological Applications (No Dark Field in Metallurgical use)
20-964	MPLAPDO 100X	Objective lens 100X	For Biological Applications (No Dark Field in Metallurgical use)



140-210 MOTORIZED NOSEPIECE CONTROLLER WITH 140-212 12 V POWER SUPPLY



MOTORIZED NOSEPIECE REMOTE 140-220 PROVIDES PUSH BUTTON MAGNIFICATION CHANGE WITHOUT RS-232.



OUR SMC SOFTWARE COMPENSATES FOR IMAGE DISPLACEMENT, AND FOCUS SHIFT AT EACH MAGNIFICATION

OLYMPUS CONTROL INTERFACE ELECTRONICS COMPONENTS

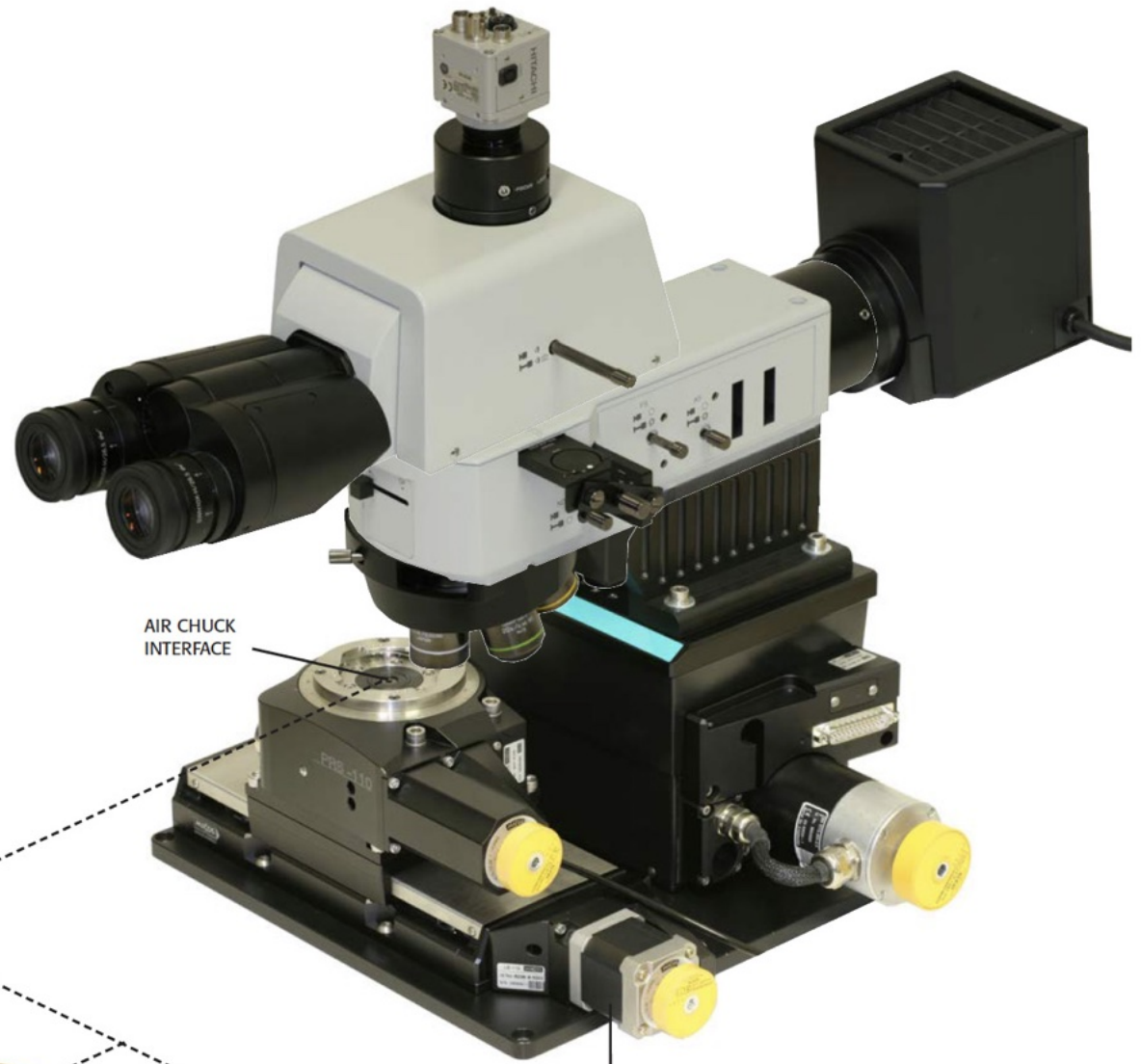
PART #	DESCRIPTION
140-210	Motorized Nosepiece Controller
140-212	U-ACAD4515 AC Adapter for 140-210
140-214	U-REMET Interface Cable For Motorized Nosepiece/140-210 OR 140-218
140-218	BX-UCB Controller for full Automation, with built-in power supply for Halogen Lamp
140-220	Control Pad for motorized controllers, with push button magnification and function control

INTERCHANGEABLE VACUUM CHUCKS FOR THE MAGNETIC MEDIA

PART #	DESCRIPTION
00-410	25 mm Quick Interchangeable Chuck
00-412	20 mm Quick Interchangeable Chuck
00-414	12 mm Quick Interchangeable Chuck
00-416	8 mm Quick Interchangeable Chuck
00-418	7 mm Quick Interchangeable Chuck
00-420	6 mm Quick Interchangeable Chuck
00-422	27 mm Quick Interchangeable Chuck with magnetic clamping

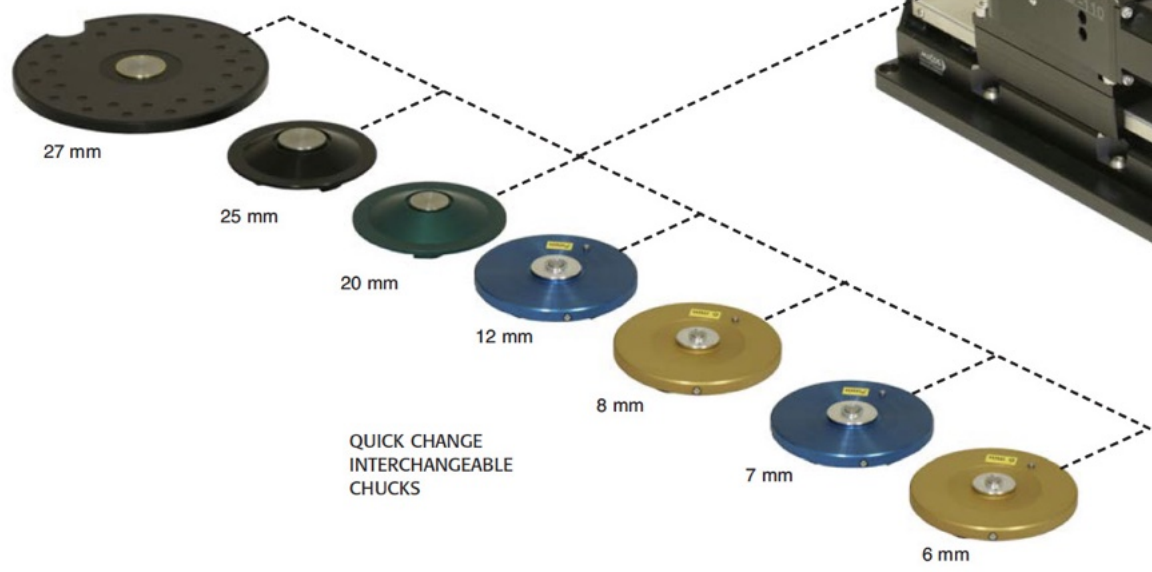


140-218 FULL AUTOMATION CONTROLLER WITH BUILT-IN POWER SUPPLY, CAPABLE OF CONTROLLING THE IRIS, DIC SETTING, ILLUMINATION.



AIR CHUCK INTERFACE

MOTORIZED DISK POSITIONING ASSEMBLY



QUICK CHANGE INTERCHANGEABLE CHUCKS

27 mm

25 mm

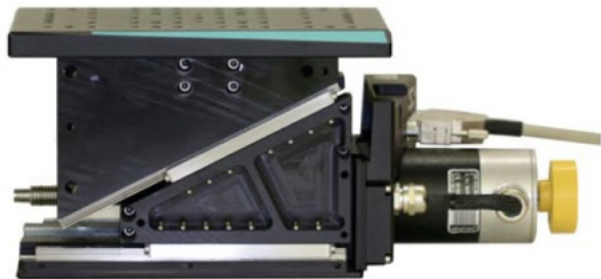
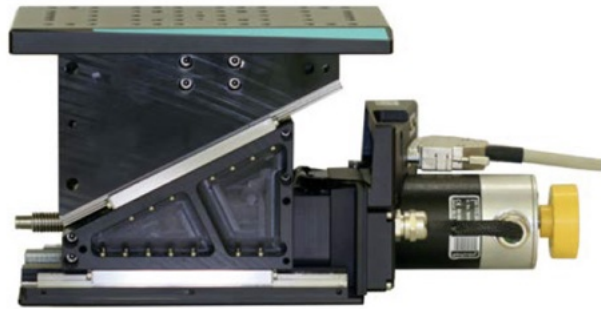
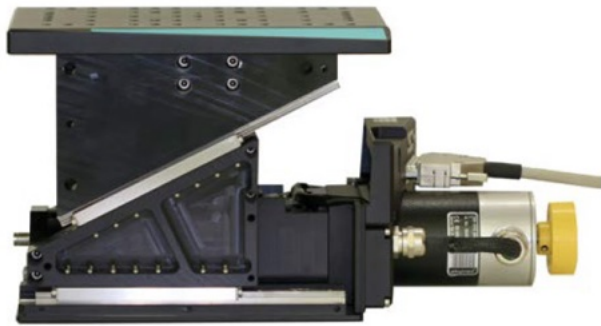
20 mm

12 mm

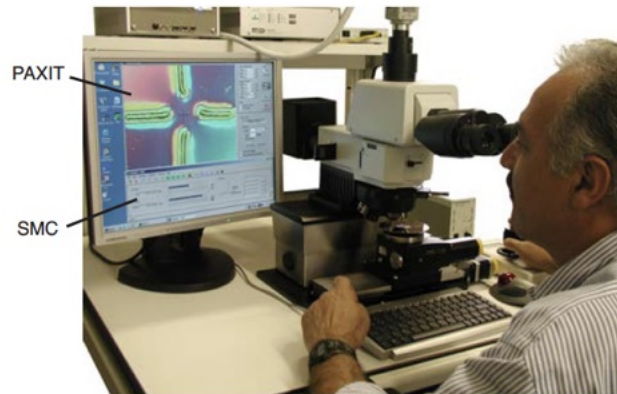
8 mm

7 mm

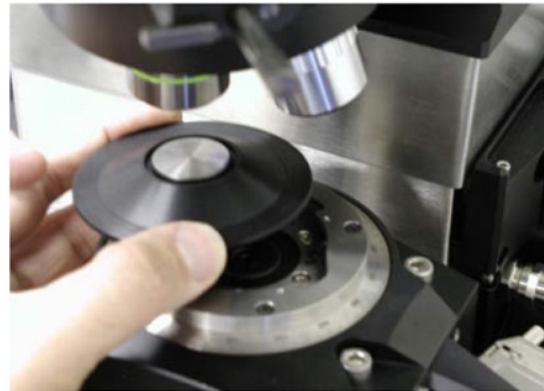
6 mm



UPL-160 provides the extreme rigidity required for vibration free imagery. During an AFM scan, the motor is turned off, and is in brake mode. In the Optical mode, the brake is released to allow focusing.



Super WIDE FIELD eyepieces and tiltable viewfinder eliminates fatigue during extended usage.



Interchangeable Air Chucks provide quick change of mounting platforms.



Microscope Workstation layout is a computer user based layout with the microscope placed in between.



Joystick 2 offers positional readout in back illuminated green LCD.

THE MOST VERSATILE INSPECTION MICROSCOPE IN INDUSTRY

Ever since AF Optical entered the inspection microscopy market in the year 2000, it has been first to offer many new capabilities to the industry, such as the quick change interchangeable air chucks, the fastest and the most accurate scribing scheme available, and a new AFM quick tip alignment.

Choose from any of the components in this catalog to put together the most application specific workstation that would fit your needs. We have in house assembly line to manufacture the final configuration you have selected, and offer full technical support and free software update for up to one year.

5.2 DIC MICROSCOPE FOR MAGNETIC MEDIA

Specifications

Microscope

Observation Technique	BF, DF, DIC
Lamp Source	Halogen 100W
Viewfinder	Tilttable 10X Super Wide Filed Obj
Objectives	5X, 20X, 50X, 100X, Motorized
Optical Resolution	0.4 μ m
Magnification Centering	Auto image shift compensation

Motion Control

Travel Range	150 mm x 360° x 25 mm R-T-Z
Resolution	0.1 μ m
Scan Range	150 mm \varnothing Disc
Joystick Control	Digital Slow/Fast search
Defect Search	Relative/Absolute positioning

Disc Handling

Interchangeable Chucks	20, 25 mm chucks standard
Disc Concentricity	+/- 2 mils

Scriber Mechanism

Technique	Nosepiece-mounted Auto Scribe
Scriber Tip	Diamond tip, interchangeable
Scribe Window Range	0, 50~1000 mils

Imaging Resolution

SVHS, 480X640 Pixels, 30 fps

Computer Workstation

PC pentium 4 with 512 MB Ram
20" Monitor with tilt/height control

Software

Paxit image capture/management
SMC motion control with auto
Defect import, Defect Click Search

Optional

Auto Focus Module
Auto intensity at each mag.
Auto Image capture
AFM Module
6~27 mm air Chucks

