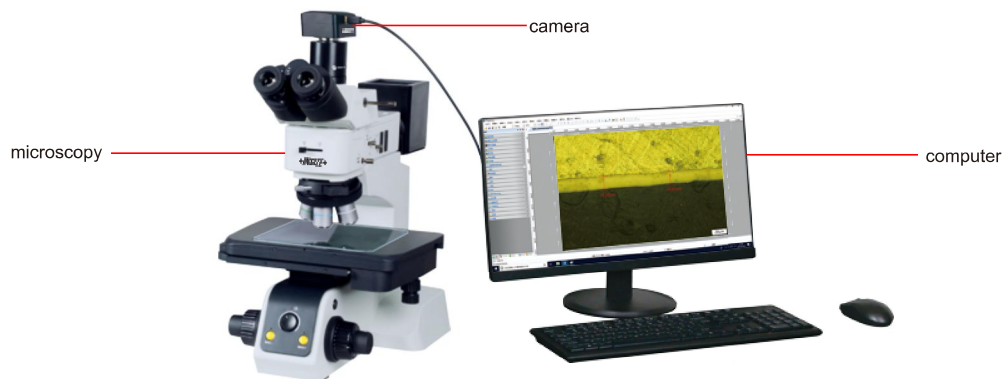


COATING/ FILM THICKNESS MEASUREMENT SYSTEMS



MTF-Y430

- Suitable for measuring the thickness of various coatings or multi-layer composite films, with a wide measurement range
- High accuracy with intuitive measurement judgment, applicable for verification and arbitration amid disputes over results from other thickness measurement methods
- Capable of analyzing the quality of coatings and identifying the causes of defects (such as pores, cracks, inclusions, peeling, etc.)
- High precision and good repeatability, generally used for strict thickness control



cold mounting mold
(optional)



cold mounting consumable
(optional)



slice clip
(optional)



grinder and polisher
(optional)

image measurement software (included)

selectable resolution

histogram
(quantify the distribution of color and brightness)

measurement items

black balance
(reduce color difference)

flat field correction
(reduce brightness difference)

dark field correction
(reduce thermal noise)

The software can control image completely, including measurement, image stitching, extend focus depth, image gray processing, RGB histogram observation, image color sampling, 3D plot (3D representation of image intensity), image exposure, white balance, black balance, image bit depth; flat field correction and dark field correction, etc

 measure length of line or distance between two points	 measure distance between two parallel lines	 measure radius, girth and area of circle	 measure area of polygon
 measure rectangle	 measure width and diameter of ring	 measure axis lengths, girth and area of ellipse	 measure center distance between two circles
 measure angle	 measure diameter, length, perimeter and angle of arc	 calibration	 measure length of open curve

Code	MTF-Y430 (standard type)				MTF-Y430H (high-definition type)			
Eyepiece	high eye point large field SWH10X-H (view field: Ø25mm, adjustable visibility)							
Objective (infinite long working distance bright and dark field semi achromatic)	5X	10X	20X	50X	5X	10X	20X	50X
Working distance	15mm	8.4mm	10.3mm	3.0mm	20mm	11mm	3.0mm	1.0mm
Numerical aperture	0.15	0.30	0.40	0.75	0.15	0.30	0.45	0.80
Optical magnification	50X~500X (up to 1000X with optional 100X objective)							
Digital magnification	170X~1700X (on 21.5" monitor), up to 3400X with optional 100X objective							
Stage	double layer							
	size: 310×240mm							
	travel: 150×100mm							
Condenser	roll-out achromatic condenser (numerical aperture 0.9)							
Illumination	5W LED, transmitted and reflected							
Observation Tube	inverse image, distance adjustment: 50~76mm, two grade spectral ratio binocular:trinocular=100:0							
Diopter adjustment	±5 diopter (two eyepieces)							
Power Supply	AC 100~240V							
Dimension (L×W×H)	310×600×500mm							
Weight	27kg							

CAMERA SPECIFICATION

Sensor	1/1.8" CMOS
Resolution	3072×2048
Pixel	6.3M
Single pixel size	2.4×2.4μm
Spectral range	380-650nm (with infrared cut filter)
Frame rate	30fps
Sampling average	1×1
Exposure time	0.1ms~15s
Power supply	USB port
Weight	400g

STANDARD DELIVERY

Microscopes	1 pc
Camera	1 pc
Software	1 pc
Glass calibration ruler	1 pc
Anti-dust cover	1 pc
0.65X camera adapter	1 pc
Polarizer and analyzer	1 pc of each
Computer	1 pc

OPTIONAL ACCESSORY

2.5X infinite long working distance bright field semi achromatic objective	5108-M-OB2D5X
100X infinite long working distance bright and dark field semi achromatic objective	5108-M-BD100X
50X infinite long working distance bright and dark field achromatic objective	5108-M-APO50X
100X infinite long working distance bright and dark field achromatic objective	5108-M-APO100X
Differential interference module (DIC)	5108-M-DIC
Cold mounting mold	MLP-QM series
Cold mounting consumable	MLP-CM series
Slice clip	MLP-QP series
Grinder and polisher	MLP-GP series