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Гиперспектральный Микроскоп Hyperspectral Imaging Microscope



ATH5010 is self-developed hyperspectral imaging microscope with compact size, HD, high quality , it consists of microscope, hyperspectral imager and data processing work station.

ATH5010 employs 1920X1080 pixels high performance CCD imaging component, clear images, low noise, the integrated exclusive high compression images algorithm can improve database storage.

Hyperspectral imaging technology provides spectral images with fast, accurate, and high spectral and spatial resolution, and universality. It can widely applied to medicine, pathology, pharmaceutical, life science, etc. As well as medical institute, research science, medical college, pharmaceutical companies laboratory research equipment.

Models	Features
ATH5010	Upright Microscope
ATH5010INV	Inverted Microscope
ATH5010OPN	Scientific-grade

OPTOSKY OPTICAL PARAMETERS

Spectral Range	400-1000nm
Spectral Resolution	<3nm
Spatial Channels	480 (Max. 1920)
Spectral Channels	270 (Max. 1280)

OPTOSKY OPTICAL PARAMETERS

NA	F/2.4
Bit Depth	12bit
Spatial Resolution	<2mrad
Images Size	7.8mm×14.2mm
FOV Overlap	Shift < 10% of FOV diameter of microscope

OPTOSKY ELECTRICAL PARAMETERS

Operating Temp.	+10℃～+40℃
Working Humidity	30%～75%
Voltage	Rated voltage<500V, voltage shift<±10%
EMC Test	Pass

OPTOSKY PHYSICAL PARAMETERS

Cleanliness	No obvious pitting, scratches, bubbles and other defects that obviously affect the observation in the field of view, and no obvious broken edges,oil stains and attachments of optical parts
Stability	Stable and firm stand support, movement, moving parts
Air Pressure	700hPa～1060hPa

MICROSCOPE MODULE

Optical System	Infinite chromatic aberration-corrected optical system/common-corrected optical system
Observer Head	Siedentopf type binocular or trinocular head, 30°inclined,Interpupillary: 50-75mm
Eyepieces	PL10X/22mm High eye-point wide field plan eyepiece, PL20X/12mm High eye-point wide field plan eyepiece total 2 pairs, Diopter adjustment ±5 , tube:Φ30mm
Magnification	40～2000 times （total 8 classes）
Objectives	Infinite wide field plan achromatic objective 4X,10X,40X,100X

OPTOSKY OPTICAL PARAMETERS

Nosepiece	Inner 4 or 5 holes
Condenser	abbe condenser (optional plug-in phase contrast conversion, dark field condenser interface, polarized port)
Stages	220×148mm double-layer stage X -axis steel wire mechanical moving stage, moving range: 76X50mm,precision 0.1mm, two-slice is available
Condenser Mechanical	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm
Illumination System	3WLED brightness continuously adjustable Köhler Illumination system
Digital Camera Imaging System	5-mega Camer, HD digital USB port, clear and smooth images, Connectable to computer to imaging and taking pictures, videos, measurement, edit, save and print.

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