NEW

MoxiePlex™

Multi-spectral imaging system

C16919-01

The MoxiePlex® Multi-spectral imaging system captures high-resolution images of entire tissue samples stained with multiple fluorescent dyes. These images play a pivotal role in evaluating and visualizing biomarker localization and expression levels, empowering researchers to perform comprehensive analysis.

HAMAMATSU

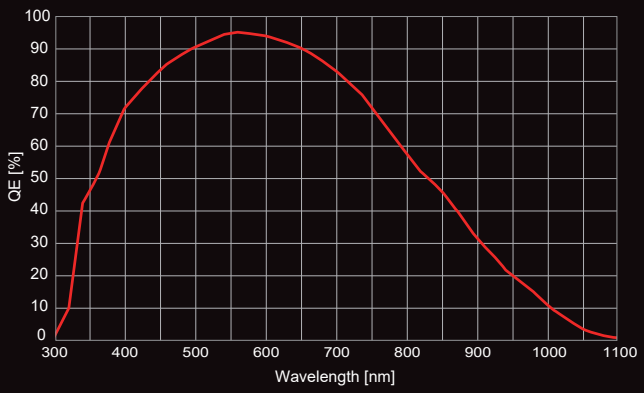
PHOTON IS OUR BUSINESS

Optimized for fluorescence multiplex analysis imaging system
Acquire high-resolution images with up to 9 channels

The MoxiePlex is designed to speed up multiplex immunofluorescence research by providing up to 9 channels across the entire tissue section.

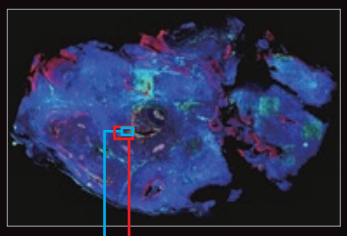
With a 16 bit output, it delivers high-resolution imaging essential for image analysis. Additionally, the system is equipped with a state-of-the-art camera featuring high quantum efficiency across a 400 nm to 900 nm wavelength range, allowing for a broader selection of fluorescent reagents and enhanced biomarker detection.

Spectral sensitivity

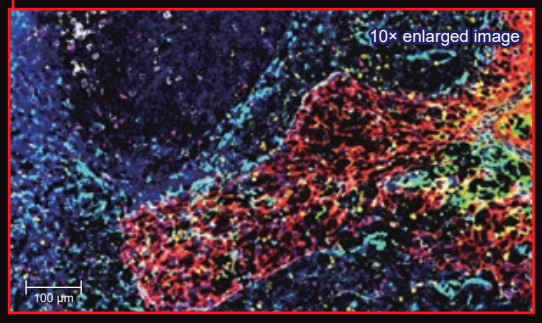


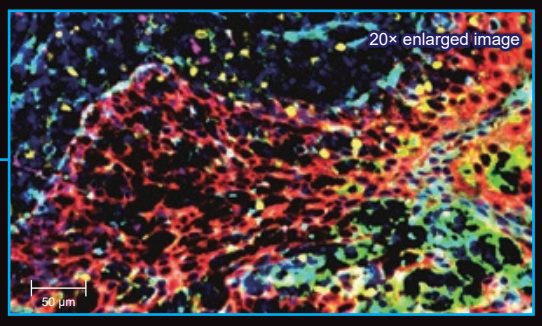
Imaging examples (Human tonsil)

Akoya Biosciences MOTiF PD-1/PD-L1 Panel 7plex kit

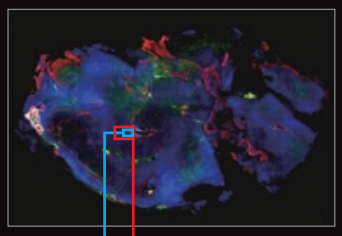


Target	Reagent
Nucleus	DAPI
CD8	Opal Polaris 480
PD-L1	Opal 520
FoxP3	Opal 570
PD-1	Opal 620
Cytokeratin	Opal 690
CD68	Opal Polaris 780

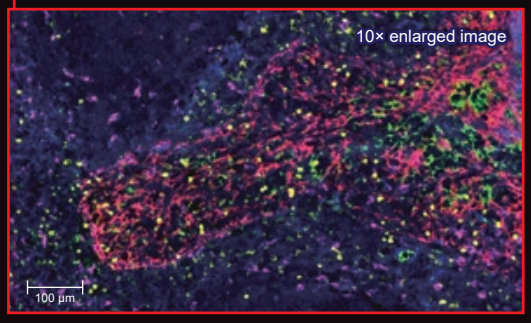


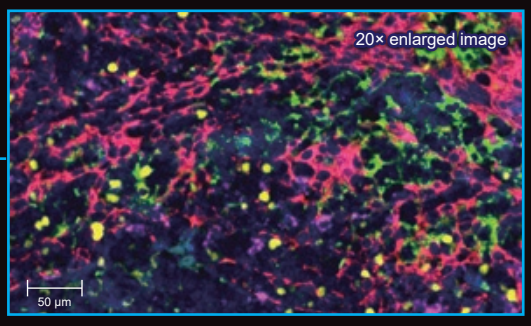


Akoya Biosciences MOTiF PD-1/PD-L1 Panel 5plex kit



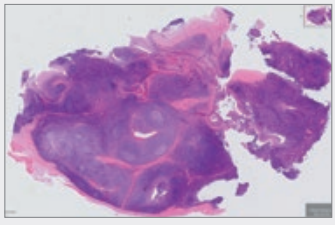
Target	Reagent
Nucleus	DAPI
PD-L1	Opal 520
FoxP3	Opal 570
Cytokeratin	Opal 690
CD68	Opal Polaris 780



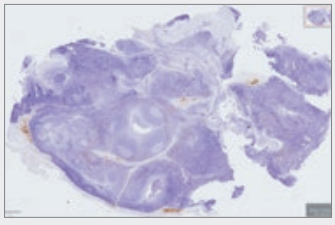


Compatible with BF

H&E



IHC



The MoxiePlex enables seamless superimposition of brightfield and fluorescence images within the Moxie software. It captures high-resolution images of H&E-stained, immunohistochemically (IHC)-stained, and specially stained samples, providing a comprehensive view of tissue morphology for in-depth observation and analysis.

Automated sample recognition and exposure time calculation

The MoxiePlex uses proprietary fluorescence optics technology and algorithms to automate sample recognition, scan range setting, focus position setting, and exposure time calculation. Users can choose between fully automated operation to minimize manual effort or manual adjustments for greater flexibility and control.

Conventional flow

1	2	3	4	5	6	7
Slide set	Set exposure time	Tissue recognition	Adjustment exposure	Scanning	Quality check	Image analysis

MoxiePlex automatic flow

1	2 Auto	3	4	5
Slide set	Tissue recognition/ Calculation of exposure time	Scanning	Quality check	Image analysis*

*3rd party image analysis

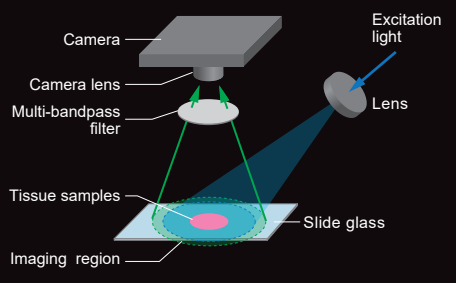
● Features of each flow

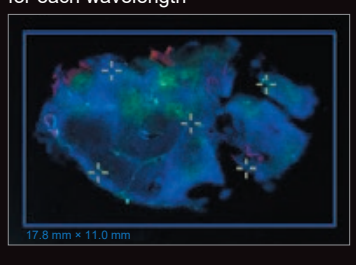
Slide set	Tissue recognition	Calculation of exposure time	Scanning	Quality check	Image analysis
Set 60 slides at once	Easily detect samples by fluorescence excitation	Automatic exposure time setting for each wavelength	5 channels, high-resolution images are acquired in 9 minutes	Easily check image quality after scanning	Compatible with 3rd party image analysis

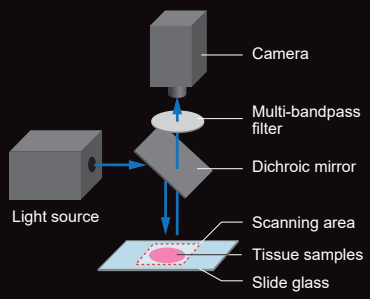
Automatically recognizes the entire tissue sample and automatically calculates exposure time to acquire fluorescent images

The MoxiePlex enhances immunofluorescence imaging by automatically detecting tissue samples that are challenging to identify in brightfield imaging. It intelligently sets scan profiles and optimizes exposure time for precise fluorescent image acquisition, ensuring a seamless workflow and high accuracy. (Patent pending)

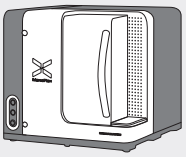
Fluorescence imaging of an entire tissue sample	Detection of tissue samples and automatic calculation of exposure time	Acquisition of fluorescence image







System configuration



MoxiePlex
Multi-spectral imaging system
C16919-01

MoxiePlexScan
Image acquisition software
U17138-01

MoxiePlexView
Image viewing software
U17663-01

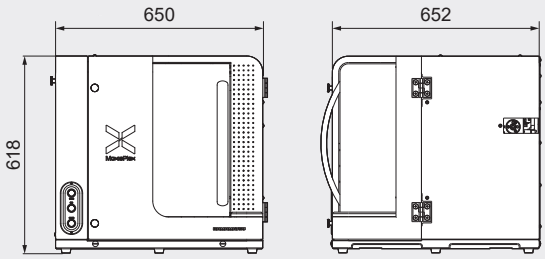
Specifications

Product name		MoxiePlex Multi-spectral imaging system
Product number		C16919-01
Cassette loader		Up to 60 slides
Compatible glass slide		75.0 mm to 76.0 mm × 25.0 mm to 26.0 mm (Thickness: 0.9 mm to 1.2 mm)
Objective lens		20× NA 0.8
Scanning resolution	20× mode	0.46 µm/pixel
	40× mode	0.23 µm/pixel
Brightfield scan speed	20× mode	Approx. 60 s (15 mm × 15 mm)
	40× mode	Approx. 70 s (15 mm × 15 mm)
Fluorescence throughput *1	20× mode	Approx. 12 min (15 mm × 15 mm, 5 channels)
	40× mode	Approx. 14 min (15 mm × 15 mm, 5 channels)
Fluorescence camera		In-house sCMOS camera
Z-stack feature		Included
Image format		OME-TIFF (16 bit, 8 bit), NDPI (8 bit)
Power supply		AC 100 V to AC 240 V
Power consumption		Approx. 180 VA

*1 Fluorescence throughput: The time from loading the glass slide, macro photography, prefocusing 5 points, scanning, image processing, to unloading the glass slide.

Dimensional outlines (Unit: mm)

Main unit: Approx. 95 kg



Filters

Standard compatible reagent	DAPI/FITC/TRITC/Cy5/Cy7/CFP/YFP/mCherry

*Please contact us for details.

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