HD1500MET-AF and HD1500MET-AF-M

HDMI Autofocus Color Microscope Camera

Built-in mouse control for autofocus and image measurement operations
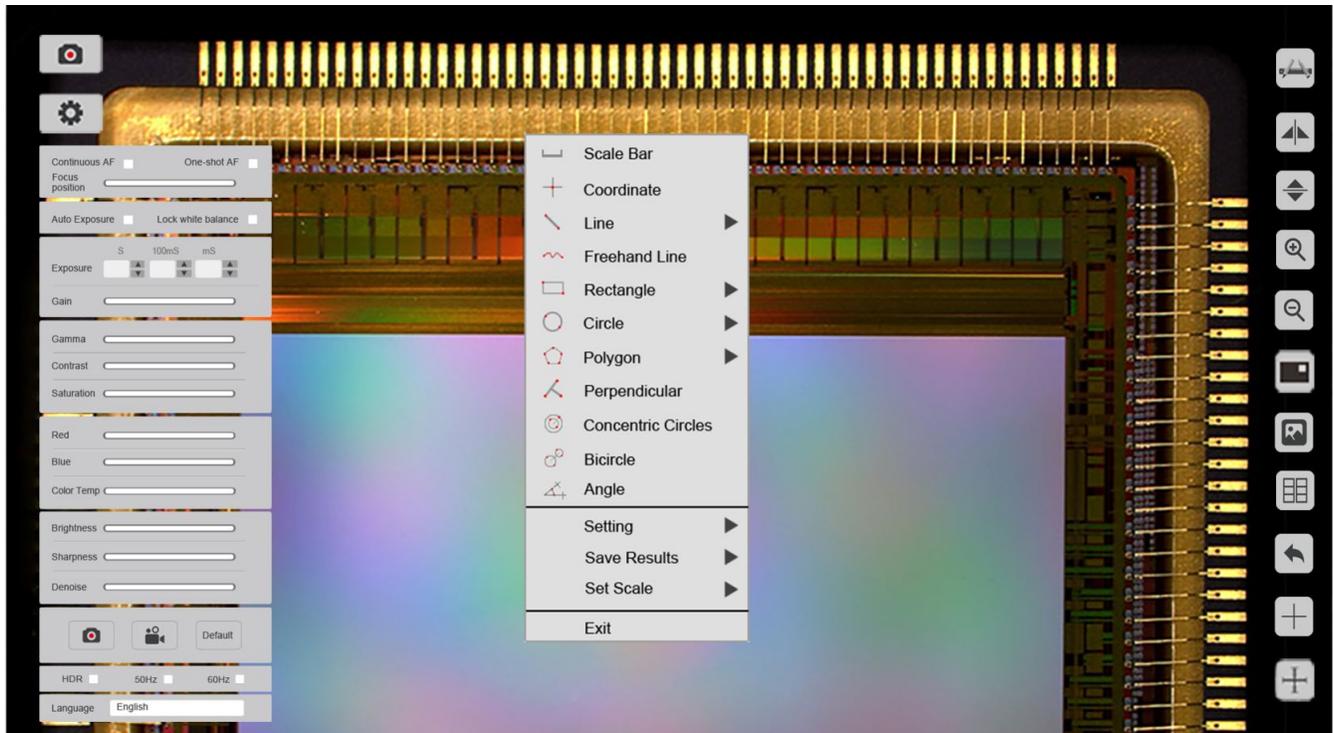
Compatible with Mosaic V2.0 Computational Imaging Software

MEIJI TECHNO

ISO9001 CE ⓔ RoHS

www.meijitechno.com

Built-in mouse control for autofocus and image measurement operations

○ An unprecedented high-speed focusing experience

HD1500MET-AF and HD1500MET-AF-M offer both continuous and single shot autofocus modes. They also support mouse wheel control for fine-tuning. Data transfer up to 60 frames per second enables users to get clear images with ease.

○ Professional digital image measurement system

HD1500MET-AF and MD1500MET-AF-M provide extremely powerful measurement functionalities including, freehand line, rectangle, polygon, circle, bicircle, angle, point-line distance and much more. Three different length units of millimeter, centimeter, and micrometer are provided to meet various measurement requirements in different applications.
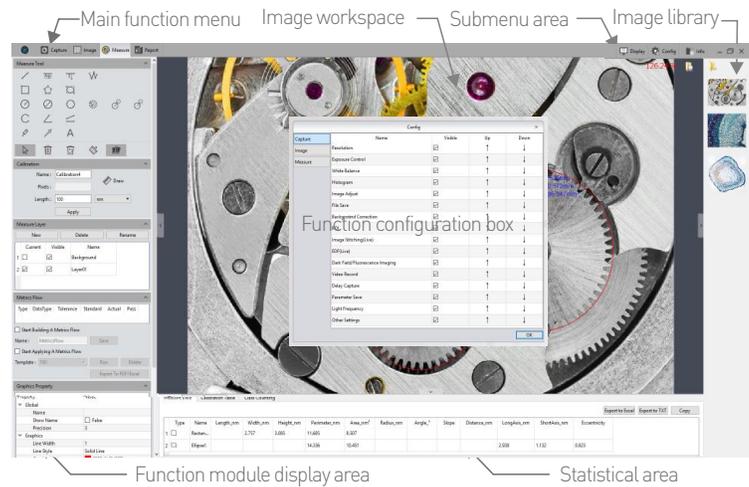
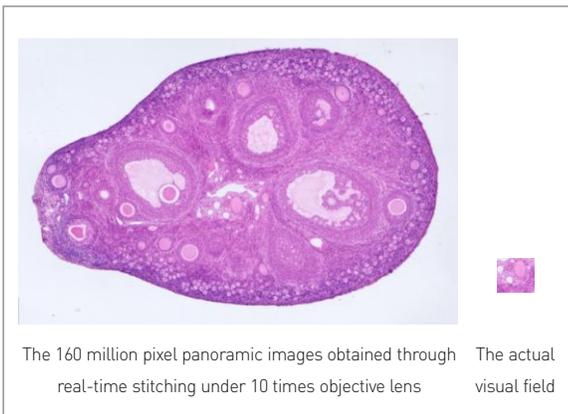# Revolutionary PC computing imaging software Mosaic V2.0

Fast, efficient and worry-free is the core design concept of Mosaic V2.0 software. It adopts a new image "shooting-processing-measurement-reporting" function, modular design, and integrates various intelligent image processing algorithms. It is dedicated to providing users with more simple operation modes and improve work efficiency in all circumstances.

○ Custom function module

❶ Autofocus and fine-tuning operations

❷ Intelligent image capture and processing

❸ Efficient measurement and attribute editing
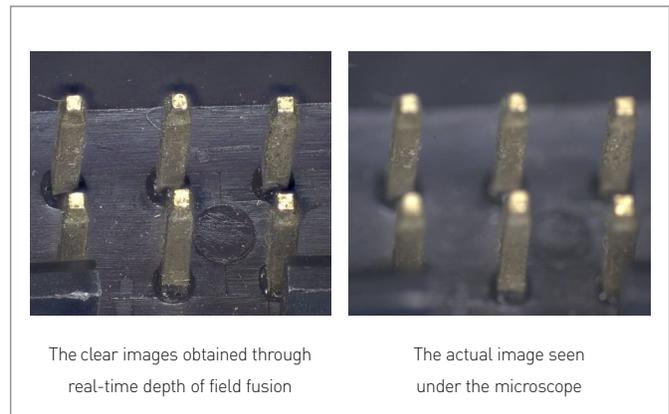
❹ Reports are automatically created and modified

Main function menu Image workspace Submenu area Image library

Function configuration box

Function module display area Statistical area

○ Real-time image stitching

The 160 million pixel panoramic images obtained through real-time stitching under 10 times objective lens

The actual visual field

It can generate large-sized mosaic images in a few seconds while moving the stage, which is light, smooth and worry-free!

○ Real-time depth-of-field fusion

The clear images obtained through real-time depth of field fusion

The actual image seen under the microscope

Turning the focus ring to capture different depth of field points while generating clear depth of field images, fast, accurate and efficient.

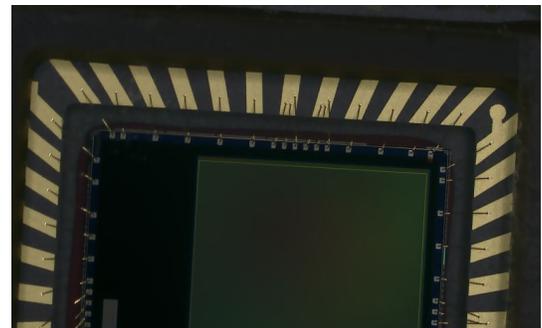# The continuation of the HD1500MET-AF and HD1500MET-AF-M

○ Perfect color reproduction

Meiji Techno's color processing is capable of a new level of precision, matches the monitor image to the eyepiece view, produces extremely-high color definition.

○ Fastest USB2.0 camera with 30fps

With 30fps data transfer at an uncompressed resolution of 1920 x 1080, HD1500MET-AF and HD1500MET-AF-M set a precedent. Making them one of the fastest USB2.0 cameras in the world

○ Tailored 1080p HD screen

In order to let users better feel the excellent quality of Meiji Techno's cameras, we specially customized a 1080p high definition display screen - Retina Screen, which perfectly matches the performance of the cameras.

Note: Retina Screen is an optional accessory that users can choose to use.

Camera specification

Sensor	CMOS	Sensor Size	1/2.8"
Dynamic Resolution	2MP, 1920x1080	Static Resolution	6MP, 3264x1836
Frame Rate	60fps @HDMI 30fps @USB2.0	Video Recording	30fps @SD Card 30fps @PC
Exposure Mode	Auto/Manual	Exposure Time	0.001s-10s
Output Interface	USB2.0,SD Card, HDMI	Setting	Gamma,Gain, WDR Noise Reduction,
White Balance	Auto/Manual	Optical Port	Standard C-Mount
Built-in Software	Cloud 1.0 Ver	PC Software	Mosaic V2.0
Size	90.7x78x70.8(mm)	Weight	452(g)
Compatible OS	Windows 7/8/10 (Real-time image stitching needs to run on a 64-bit system)		

Retina Screen Features

Resolution	1080P(1920x1080)	Display Type	IPS-Pro
Screen Size	11.6"	Aspect Ratio	16:09
Brightness	320cd/m2	Static Contrast Ratio	1000:01:00
HDMI Port	1	Power Supply Type	12V, 2A
Size	282.0x180.5x15.3(mm)	Weight	600(g)

Mosaic V2.0 features

Modular function configuration

Intelligent 12-bit ISP color reproduction

Real-time depth of field fusion

Real-time image stitching

Real-time fluorescence image synthesis and editing

HDR image synthesis

Micro-imaging-based intelligent automatic exposure

Intelligent flat field correction based on dynamic calculation

Smart measurement workflow

Implements multiple iterations of workflow execution

Supports single shot, delayed camera

Automatic video and delay video generation

Output format selection

User parameter group save and load

Dynamic \ static measurement

Layered measurement

Customize measuring gauges, layers, precision

Customize image naming, style, save location

Implements drawing: points, lines, rectangles, polygons, circles, arcs, angles

Data export as TXT or Excel

Report generation and printing

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