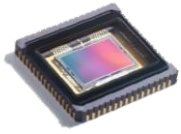


HD2500T

Global Exposure - Professional scientific CMOS Color Camera

- 01 Precision Color Reproduction Algorithm ensures the best possible color fidelity
- 02 Global Shutter Technology Rapid global shutter results in undistorted image capture
- 03 Professional Software Revolutionary computing software features

Excellent imaging performance for both brightfield and fluorescence imaging needs



Sony professional CMOS sensor

Uses a Sony 5 megapixel CMOS 2/3" sensor-IMX264, with 3.45 x 3.45 μm pixels. The resolution of the captured image can reach 2448 x 2048. Images taken at low magnification readily resolved.

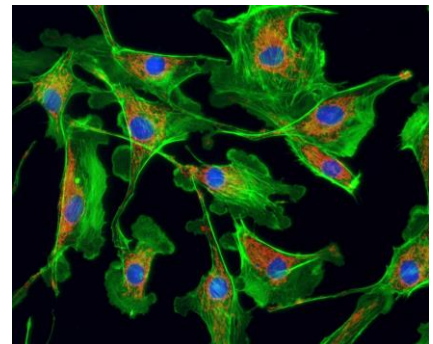
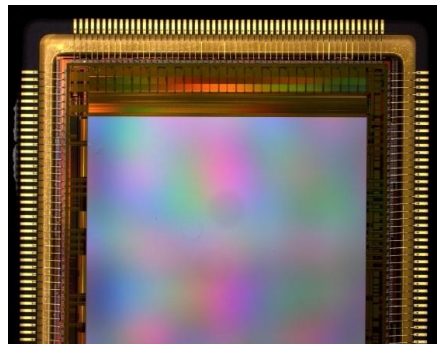
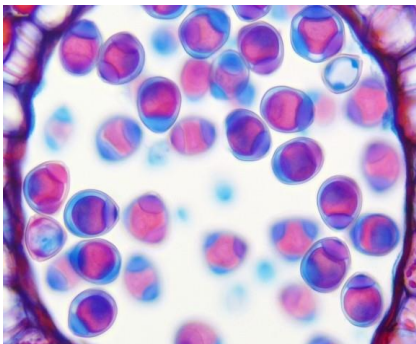


Stable high-speed transmission

USB 3.0 high-speed transmission interface, simple and convenient while ensuring a stable High transmission rate which allows fast focusing at high resolution. Imaging can be performed at a rate of 35 fps.

○ Excellent Color Reproduction

The use of Meiji Techno's core ISP color-interpolation algorithm effectively corrects the color deviation of the sensor's spectral response, to simulate the human eye's sensitivity to color. The true color in the eyepiece, whether it is a biological bright field, stereo or fluorescence image.



○ Advanced Global Shutter Technology

With global shutter technology, all pixels are exposed simultaneously, which allows accurate tracking and capture of dynamic samples and provides, crisp, undistorted, clear images of fast moving specimens.



Global shutter



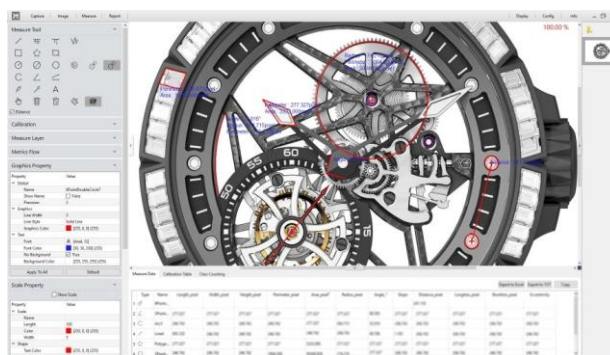
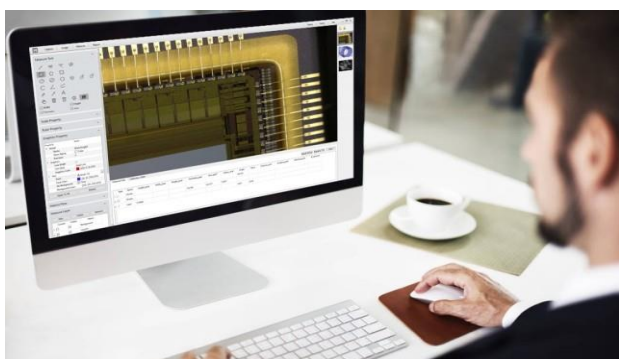
Rolling shutter

Mosaic V 2.0

Revolutionary computational imaging software

○ Innovative Interface, Workflow-based Design, with a Dramatically Improved User Experience!

From the user's point of view, taking into account the best operating procedures, through modular design, redefining the image acquisition - editing - measurement - report output workflow process. The inclusion of Meiji Techno's latest image processing algorithm, greatly saves the operating time, effectively improving productivity.

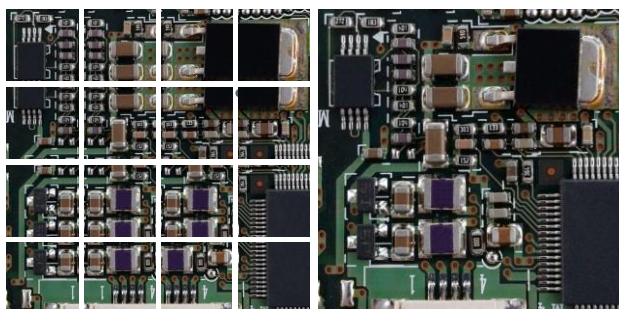


○ Core Technology I: "Real-time" depth-of-field fusion

General microscopes focus only on shallow depth planes. To acquire large depth-of-field images, multiple static images of different focal points need to be post-processed. Reason, the operation is difficult and cumbersome. Mosaic V 2.0 revolutionizes the "real-time depth of field fusion" which produces perfect results just by turning the focus ring to switch the depth.



○ Core Technology II: "Real-time" image stitching



Due to limited field of view, in order to obtain large-field images in the past, it was necessary to perform post-processing on multiple static images in different positions. Mosaic 2.0 core breaks out "real-time image stitching", which can generate mosaic images while moving the stage. Just one click, stitching effect is immediate with a mosaic frame up to 10000x10000 resolution.

Quality within reach

- Meticulous CNC arc processing
- Environmental protection spraying
- Stainless steel C ring with no debris



HD2500T specification

Product Model	HD2500T
Sensor Model	IMX264LQR-C
Sensor Type	CMOS
Sensor Size	2/3"
Color/Mono	Color
Pixel Size	3.45 x 3.45(μm)
Resolution	2448(H) x 2048(V)
Frame	35fps @5MP
Shutter Mode	Global
Exposure Time	0.13ms-15s
Automatic Set	Exposure, Color Scale, White Balance
Manually Set	Exposure, Gain, Noise Reduction, Gamma, Flat Field Correction
Color Temperature	2000-15000K
ADC Depth	12Bit
PC Software	Mosaic V 2.0
Picture Format	JPG / PNG / TIFF
Operating System	Windows / Linux / Mac
Multiple Cameras	Supports 4 Cameras Simultaneously
Data Interface	USB 3.0
Optical Interface	Standard C Mount
Camera Size	68 x 68 x 46 mm
Camera Weight	330 g
Operating Temperature	0-60°C

Mosaic V 2.0 software feature function

- 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
- Smart measurement workflow
- Implements multiple iterations of workflow execution
- Supports single shot, integral camera, delayed camera
- Automatic video and delay video generation
- Output format selection
- User parameter group save and load
- Dynamic/static measurement, layered measurement
- Supports measuring gauges, layers, precision, naming, style
- Implements drawing: points, lines, rectangles, polygons, circles, arcs, angles
- Data export as TXT or Excel
- Report generation and printing

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