

MITO2

Microscope Camera With Temperature Overlay



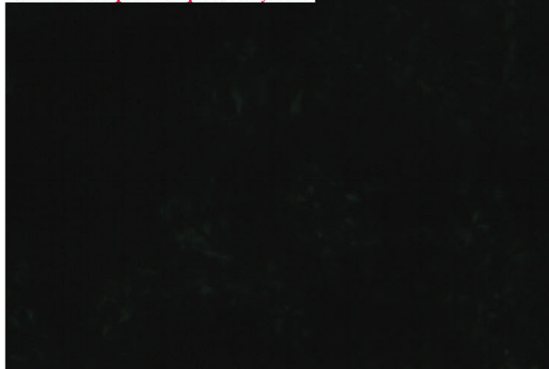
Instec's MITO2 camera system integrates digital image acquisition and time-temperature recording into a convenient package for use with Instec's microscope hot and cold stages and plates. USB communication and passive cooling make the MITO2 camera a fast and robust option for adding digital image acquisition to any optical microscope. Using our WinDV software, each sample image is stamped with the sample temperature, time and date, and experiment notes provided by the user. Captured images are also software indexed to allow for easy sorting and movie creation. WinDV's features include temperature-triggered image capture (convenient for generating clean and precise temperature-property data), live video feed for positioning samples, easy snap capture for single images, and all of the temperature control features normally found in our WinTemp software.



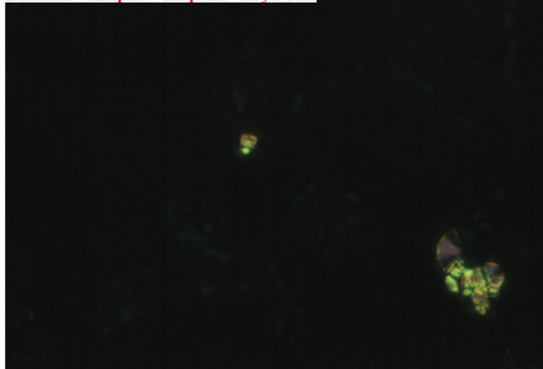
Features

- USB 2.0 communication
- Real time image monitoring and image capture
- Temperature-triggered image capture for easy collection of temperature-property data
- C-mount microscope connection standard
- 1.92 megapixel UXGA resolution
- WinDV software overlays sample temperature, time & date, and other experiment notes directly onto the digital images when interfaced with an Instec temperature controller

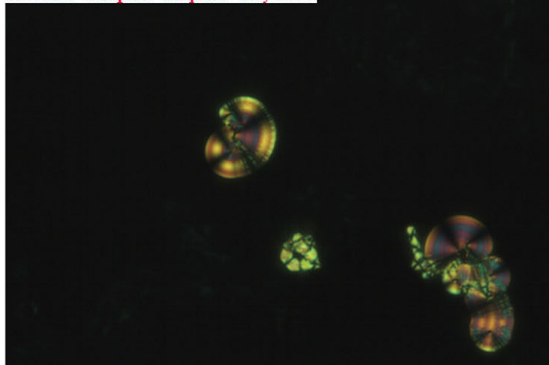
2015-03-12 12:10:52
118.329°C
Banana-shaped liquid crystal



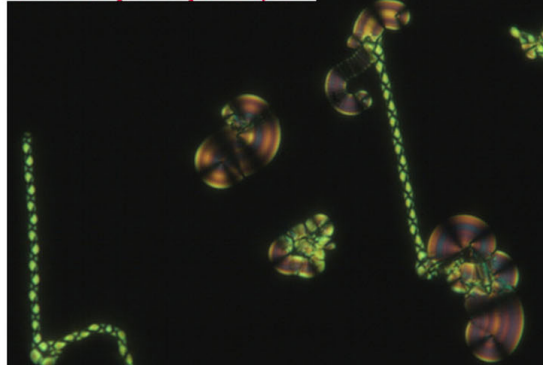
2015-03-12 12:12:48
118.520°C
Banana-shaped liquid crystal



2015-03-12 12:17:03
118.930°C
Banana-shaped liquid crystal



2015-03-12 12:26:32
119.874°C
Banana-shaped liquid crystal



Images are automatically stamped with time, temperature and experimental notes for easy reference. Let the MITO2 do the record keeping for you!

Technical Specifications

Image Sensor	1/1.8" Interline UXGA color progressive CCD: ICX274AQ (Sony)
Chip Size	8.50 (H) x 6.80 (V) mm
Resolution	1600 (H) x 1200 (V) (1.92 megapixel)
Scanning System	Progressive
Scanning Methods	Full scanning, 1/1 partial scanning, 1/2 partial scanning, 1/4 partial scanning, variable partial scanning
Maximum Frame Rate (Full Scanning)	15.32 fps
Pixel Frequency	36.818 MHz
Video Output	8bit / 10bit (1/2 clock) / 12bit (1/4 clock)
Minimum Scene Illumination	7.7 Lux at F1.2
Sync System	Internal
Electronic Shutter	Auto / Manual (software selectable)
Gain	Auto / Manual (software selectable)
Gamma	Manual (software selectable)
White Balance	Auto / Manual
Trigger Mode	Free-run / Edge preset trigger / Pulse width trigger / Start & stop trigger (software selectable)
Input / Output	USB 2.0 High Speed
Input Voltage	+5 Vdc through USB connector (+4.4 to +5.25 V)
Power Consumption	< 450 mA
Dimensions	28 (W) x 28 (H) x 42 (D) mm (excluding connector)
Lens Mount	C mount
Weight	Approximately 45g
Interface Connector	USB: mini-B USB connector IO signal: 6 p in connector (HR10A-7R-6PB or equivalent)
Operational Temperature	0 to 40°C
Storage Temperature	-30 to 65°C
Vibration	20 Hz to 200 Hz to 20 Hz (5 min. /cycle), acceleration 10G, 3 directions 30 min. each
Shock	Acceleration 70G, half amplitude 6 ms, 3 directions 3 times each
Standard Compliancy	EMS: En61000-6-2, EMI: EN61000-6-3 (Class B)
RoHS	RoHS Compliant

Ordering Information

Part Number	Description
MITO2-2MC	C-mount ready microscope CCD camera system with 1.92 megapixel resolution, RGB-color image.
CMT	C-mount Adaptor for Olympus BX microscope.