

M₅D

CMOS | SONY IMX250 | GLOBAL SHUTTER

Ideal for use in any laboratory or industrial setting, Pixelink cameras let you capture high-quality images with your existing microscope equipment. We will work with you to choose and integrate the optimal USB 3.0 camera for your microscopy project. Our microscope cameras and associated software are designed to offer consistent, superior quality image acquisition and performance.

KEY FEATURES





















TYPICAL APPLICATIONS

Live Cell Imaging Microbiology Cell Analysis Vision Correction Packaging Measurements Inspection

Paint Analysis & Dirt Analysis





M5D KIT

TECHNICAL SPECIFICATIONS

SENSOR

Sensor Sony IMX250
Type CMOS Global Shutter
Resolution 5.01 MP (2448 x 2048)
Pixel Pitch 3.45 µm x 3.45 µm
Active Area 11.1 mm diagonal

PERFORMANCE SPECIFICATIONS

FPN < 0.03% of signal
PRNU < 0.4% of signal
Dynamic Range 70 dB
Bit Depth 8 or 12-bit
Color Data Formats Bayer 8, Bayer 12 Packed, Bayer 16 & YUV422
Mono Data Formats Mono 8, Mono 12 Packed & Mono 16

FRAME RATES

Resolution Free Running
2448 x 2048 79.8 fps
1280 x 1024 158.9 fps
640 x 480 325.8 fps
Frame rates will vary based on host system and configuration
*Above calculations based on fixed frame rate mode

INTERFACES

Interface | Date rate USB 3.0 | Micro-B | 5Gbps
Trigger Mode 0 Software

MECHANICALS

Dimensions (mm) 80.88 x Ø54.01 (without lens mount)
Weight (g) 218.5 (without optics)
Mounting C-Mount

ENVIRONMENTAL & REGULATORY

Compliance FCC, CE & ROHS
Shock & Vibration 300 G & 20 G (10Hz - 2KHz)
Operating Temperature 0°C to 50°C

SOFTWARE

Storage Temperature

Pixelink Capture Capture, control, measure & operate
Pixelink SDK Software Development Kit
Pixelink µScope Acquisition, analysis & reporting
3rd. Party U3V Vision Applications

-45°C to 85°C

COMPUTER & OPERATING SYSTEM

		Windows	Linux x86	Linux ArmV7	Linux ArmV8
	Processor	Intel i5 or better	Intel i5 or better	Arm7 (32 bit)	Arm8 (64 bit)
	Memory	4GB recommended	4GB recommended	2GB	2GB
	Hard Drive Space	150 MB	150 MB	50 MB	50 MB
	Operating System	Windows 7/8/10	Ubuntu 14.04/16.04 Desktop	Ubuntu 14.04/16.04	Ubuntu 14.04/16.04

POWER REQUIREMENTS

Voltage Required 5V DC (from USB connector)

AVAILABLE CONFIGURATIONS

M5DC-CYL M5DM-CYL
M5DC-KIT-CYL M5DM-KIT-CYL
M5DC-SE-CYL M5DM-SE-CYL
M5DC-PRO-CYL M5DM-PRO-CYL

Housing
CYL = Cylindrical Case

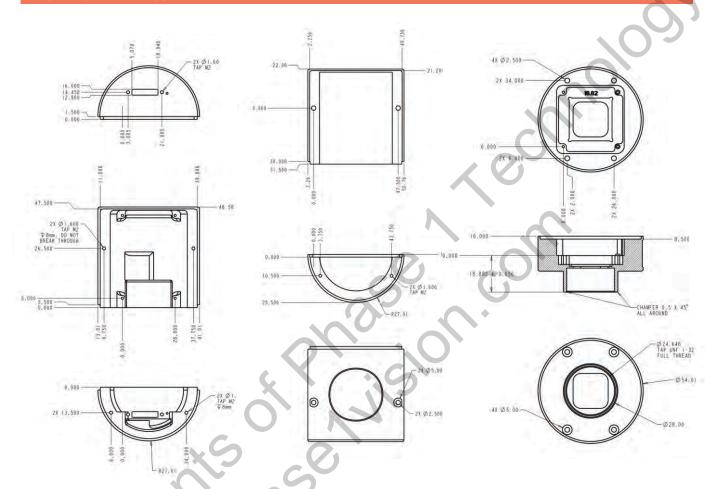
Software Included
KIT = μScope Essentials
SE = μScope Standard
PRO = μScope Professional



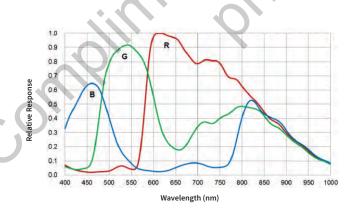


MECHANICAL DRAWINGS & RESPONSIVITY CURVES

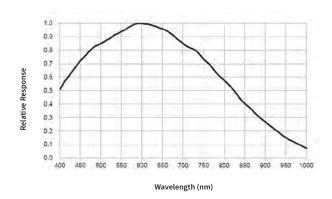
MECHANICAL DRAWINGS



RESPONSIVITY CURVE - COLOR



RESPONSIVITY CURVE - MONO





PIXELINK'S INDUSTRY LEADING SOFTWARE

PIXELINK µSCOPE

Pixelink µScope is a software tool developed for the Microscopy marketplace. It gives users the ability to quickly and easily capture, measure and enhance images. In addition to this it can also correlate image data effectively and output the data in a format that can be further analysed by other software packages.

Pixelink μScope Essentials (ES) Software is an easy-touse robust image capture tool optimized for productivity. Pixelink μScope Standard (SE) Software has added features, making it a highly productive image capture tool for microscopy. Pixelink μScope Pro (PRO) Software is for users needing more advanced tools for their microscopy requirements. This featurerich application includes tools such as z-axis, extended focus imaging, shading correction, and reflected light subtraction.

PIXELINK SDK

Providing full control of all camera functions, the Pixelink Software Developers Kit (SDK) is the software package of choice for developers and system integrators who are integrating Pixelink cameras into their applications. The Pixelink SDK provides access to the full Pixelink Application Programming Interface (API) and provides sample applications, wrappers for many 3rd party controls, such as LabVIEW, along with full documentation.

The Pixelink SDK is compatible with Microsoft Windows and popular Linux platforms. When using the Pixelink SDK, developers can integrate Pixelink cameras into their custom applications with ease.

PIXELINK CAPTURE

Pixelink Capture is powerful multi-camera software application designed to configure "n" numbers of cameras and stream "n" number of cameras simultaneously in real-time high-quality video viewed in a multi-window environment. Pixelink Capture offers options for complex image enhancements such as; exposure control, filtering, frame-by-frame property changes in addition to multi-camera application testing and configuration.

Pixelink Capture also provides features to measure supporting; point, line, circle, rectangle, polyline and polygon measurements while determining pixel location. After creating spatial calibration, the user can then review and adjust before exporting the findings to an Excel spreadsheet for further analysis. Pixelink Capture also has integrated lens control (zoom & focus) for Navitar motorized lenses and accurate autofocus options for Navitar motorized fine focus mechanisms.

For more information on Pixelink µScope, the Pixelink SDK and/or Pixelink Capture visit www.pixelink.com.

