

M5

CMOS | ON SEMI VITA 5000 | 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 so ware are designed to offer consistent, superior quality image acquisition and performance.

KEY FEATURES

5.3MP



















TYPICAL APPLICATIONS

Live Cell Imaging
Microbiology
Cell Analysis

Packaging Measurements Inspection

Vision Correction

Paint Analysis & Dirt Analysis





M5 KIT

TECHNICAL SPECIFICATIONS

SENSOR			
Sensor	On Semiconductor Vita 5000		
Туре	CMOS Global Shutter		
Resolution	5.3 MP (2592 x 2048)		

Pixel Pitch 4.8 µm x 4.8 µm
Active Area 15.86 mm diagonal
Peak QE 53% @ 550nm

PERFORMANCE SPECIFICATIONS

FPN	< 1% of signal
PRNU	< 2% of signal
Dynamic Range	53 dB
Bit Depth	8 or 10-bit
Color Data Formats	Bayer 8, Bayer 12 Packed, Bayer 16 & YUV422
Mono Data Formats	Bayer 8, Mono 12 Packed & Bayer 16

FRAME RATES

Resolution	Free Running	
2592 x 2048	75.3 fps	
1280 x 1024	258.6 fps	
640 x 480	815.9 fps	
Frame rates will yeary based	on boot system and configuration	

Frame rates will vary based on host system and configuration

INTERFACES

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

MECHANICALS

Dimensions (mm) 82.69 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. U3V Party 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

 M5C-CYL
 M5M-CYL

 M5C-KIT-CYL
 M5M-KIT-CYL

 M5C-SE-CYL
 M5M-SE-CYL

 M5C-PRO-CYL
 M5M-PRO-CYL

Housing
CYL = Cylindrical Case

Software Included

KIT = µScope Essentials

SE = µScope Standard

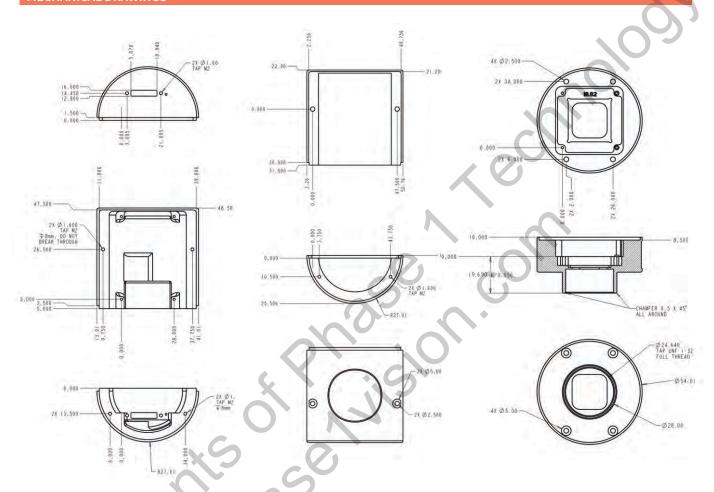
PRO = µScope Professional



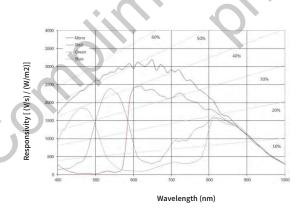


MECHANICAL DRAWINGS & RESPONSIVITY CURVES

MECHANICAL DRAWINGS



RESPONSIVITY CURVE - COLOR & 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.

