Pizelink Metek®

M3-CYL CMOS | SONY IMX421 | GLOBAL SHUTTER | HDR MODEL

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.



USB 3

KEY FEATURES

	2.8	Μ	P
ſ	CM	OS	









COLOR

MONO

US3 °

TYPICAL APPLICATIONS

- Live Cell Imaging
- Microbiology
- Cell Analysis

- Vision Correction
- Packaging
- Measurements

- Inspection
- Paint Analysis
- Dirt Analysis



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Technical Specifications .

SENSOR

Sensor	Sony IMX421
Туре	CMOS Global Shutter
Resolution	2.8 MP (1936 x 1464)
Pixel Pitch	4.5 μm x 4.5 μm
Active Area	11 mm diagonal

PERFORMANCE SPECIFICATIONS		
FPN	<0.03% of signal	
PRNU	<0.4% of signal	
Dynamic Range	72 dB	
Bit Depth	8-bit and 12-bit	
Color Data Formats	Bayer 8, Bayer 12 Packed, Bayer 16 and YUV422	
Mono Data Formats	Mono 8, Mono 12 Packed & Mono 16	

FRAME RATES

Resolution	Free Running
1936 x 1464	141.1 fps
1280 x 1024	203 fps
640 x 480	403.8 fps

* Frame rates will vary based on host system and configuration.

** Above calculations are based on fixed frame rate mode & 8-bit pixel depth.

INTERFACES

Interface | Data Rate Trigger

USB 3.0 | Micro-B | 5Gbps 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
Operating Temperature	0°C to 50°C
Storage Temperature	-45°C to 85°C

SOFTWARE			
Pixelink Capture	Control & operate multi-camera		
Pixelink SDK	Software Development Kit		
Pixlink µScope	Acquisition, analysis & reporting		
3rd Party U3V Vision Applications			

COMPUTER & OPERATING SYSTEM (minimum requirements) Windows Linux x86 Linux ArmV7 Linux ArmV8 Processor Intel i5 Intel i5 Arm 7 (32 bit) Arm8 (64 bit)

Memory	4GB recommended	4GB recommended	2GB	2GB
Hard Drive	150 MB	150 MB	50 MB	50 MB
Operating System	Windows 7/8/10	Ubuntu 16.04 18.04 20.04 22.04	Ubuntu 16.04 18.04	Ubuntu 16.04 18.04 20.04 22.04

POWER REQUIREMENTS Voltage Required 5V DC (from USB connector)

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Mechanicals & Responsivity Curves

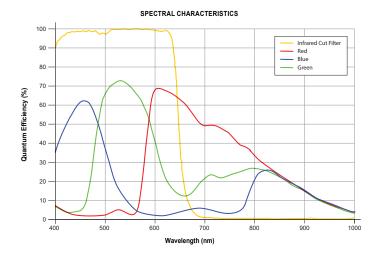
Mechanical Drawing 49.756 2.256 18.940 .070 22.00 2X Ø1.60 TAP M2 - 21.200 16.000 14.450 12.900 4X Ø2.500 0.000 2X 34.000 1.500 0.000 Ħ 18.88 3.005 -21.005 30.000 -31.500 — 39.806 11.806 0.000 3.26 -47.500 50.76 2X 6.000-0.00.0 47.500 48.50 F 6 0.000 2X 2.000 2X 26.000 2X Ø1.600 TAP M2 43.750 TAP M2 ▼8mm, DO NOT BREAK THROUGH 26.500 0.000 3.750 1.500 10.000 -0.000 8.500 0.000-10.500 ШÌ 2X Ø1.600 R P 18.880 ± 0.050 0.000 3.500 5.000 Tap M2 ЦIТ 25.506 - R27.01 -CHAMFER 0.5 X 45° ALL AROUND 28.000 37.750 41.01 13.01 9.750 00.0.0 - Ø24.640 TAP UNF 1-32 FULL THREAD 0 0 2X Ø5.000 0.000 2X Ø1.600 TAP M2 ¥8mm -Ø54.01 2X 13.500 0 Q 2X Ø2.500 4X Ø5.00 Ø28.00 Ø 0

Responsivity Curve - Color

Pixelink

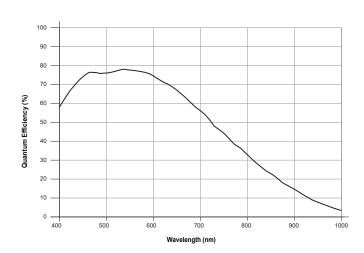
лметек

6.000 0.000



34.000 R27.01

Responsivity Curve - Color



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Industry Leading Software ...

ΡΙΧΕLΙΝΚ μSCOPE

Pixelink μ Scope 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 data in a format that can be further analysed by other software packages.

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

PIXELINK CAPTURE

PIXELINK SDK

Providing full control of all camera functions, the Pixelink Software Development 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 applications with ease.

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

Pixelink Capture features allows you to measure supporting point, line, circle, rectangle, polyline and polygon measurements while determining pixel location. The user can review and adjust data 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.

AVAILABLE CONFIGURATIONS M3C-CYL M3C-KIT-CYL M3C-PRO-CYL M3M-CYL M3M-KIT-CYL M3M-SE-CYL M3M-PRO-CYL

INCLUDED SOFTWARE

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

HOUSING CYL = Cylindrical Case



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