xiQ

USB3 Vision Cameras

easy on you
easy on your application
easy on your customer
easy on your budget

ximea

USB3 VISION™

xiQ USB3 Vision cameras

Highlights

Size: The smallest and the lightest USB3 Vision camera
Power: The lowest power consumption 1 to 1.8 Watts
Speed: Extremely low latency: all data are being transferred directly to the RAM of the PC
Sensors: Most recent generation of CMOS sensors with Global shutter.
Cable length: Cable length up to 8m without active repeaters, 100 meters with active repeater
Others: Sealed body, easily user convertible between C-Mount, CS-Mount and S-mount
Filter glass easily removable or replaceable by other 1" filters
Modular bracket system for industry most versatile mounting options

Compatibility

Software: Single SDK/API for all camera models. **Windows, Linux and OS X** drivers available. Support for over 30 libraries:

• HALCON • LabVIEW • MATLAB • OpenCV •
• Matrox Imaging Library • VisionPro • Common Vision Blox •
• 3DExpress • ActiveGen<i> • Adaptive Vision Studio • Aforge.NET • AQSENSE SAL3D • Astroart • Digital Optics V++ •
• EyeVision • ImageWarp • Integrating Vision Toolkit • Pinta • Keyetech • libdmtx • µManager • NeuroCheck •
• SentiSight • StreamPix • RoboRealm • Modular-X • ThirdSight • Scorpion • VisionLab • Voyant Vision •

USB3 Vision™ Standard compliant
USB 3.0 SuperSpeed compliant
Downward compatible with USB2.0

Software, tools & support

Efficient on-site customer support framework
Mainstream interface - USB3.0 interface available on each PC
Extensive diagnostics tools for installation and performance troubleshooting

Models table

B/W sensor models	Color sensor models	Extended infrared sensors	Resolution	Frames/sec
MQ003MG-CM	MQ003CG-CM		648 x 488	600
MQ013MG-E2	MQ013CG-E2	MQ013RG-E2	1280 x 1024	60
MQ013MG-ON	MQ013CG-ON		1280 x 1024	150
MQ020MG-E2	MQ020CG-E2		1600 x 1200	60
MQ022MG-CM	MQ022CG-CM	MQ022RG-CM	2048 x 1088	180
MQ042MG-CM	MQ042CG-CM	MQ042RG-CM	2048 x 2048	90

Please visit **ximea.com** for complete product information. E-mail **sales@ximea.com** for price and availability.

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XIMEA GmbH Germany
Hansestraße 81
48165 Münster
Germany
info@ximea.com
Tel: +49 (2501) 964 555-0
Fax: +49 (2501) 964 555-99

XIMEA s.r.o. Slovakia
Lesna 52
900 33 Marianka
Slovakia
info@ximea.sk
Tel: +421 (2) 205 104 26
Fax: +421 (2) 205 104 27

XIMEA Corp. U.S.A.
2102 Beech Court
Golden, CO 80401
USA
info@ximea.com
Tel: +1 (303) 389-9838
Fax: +1 (303) 202-6350

USB3 VISION

EASY | on you
on your budget
on your application

USB3™ VISION

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xiQ USB3 Vision cameras for the widest range of machine vision applications

USB3 Vision Cameras

EASY

easy on you
easy on your application
easy on your customer
easy on your budget

USB3 VISION™

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xiQ

USB3 Vision cameras for the widest range of machine vision applications

The brand NEW G model

CURRERA

THE FIRST VISION SYSTEM:

won't break your budget
has Dual Core CPU + GPU
is USB3 Vision compliant
has 4 USB3 camera heads

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CURRERA G

USB VISION™

CURRERA-G **All-in-one** intelligent **PC camera** with up to 5 image sensors: 1 internal plus 4 external

Highlights

- Dual Core AMD Fusion processor • Combination of the power of x86 CPU and GPU (integrated on a single die)
- Heterogeneous platform: dual core x86/x64 1.6Ghz, 80 GPGPU cores running at 500 MHz, 90Gflops combined performance
- 2GB DDR3 / LVDDR3-1066 soldered on-board (2 Gbyte of 64-bit DDR3-1333 memory), up to 32 GB SSD
- GPGPU programmable via OpenCL • Full support for zero-copy transfers paradigm
- Wide variety of Global Shutter CMOS sensors ranging from VGA up to 4MPix with framerates up to 600fps and HDR models
- 1x LED illuminator controller, with isolated input and up to 1A,80V(20W) output + analog/PWM control through PLC
- 1x Embedded fast micro PLC • 4x USB3.0 ports on two independent host controllers • 1x USB2.0
- 1x HDMI Port with 1920x1200 resolution • 4x Isolated Inputs • 4x Isolated Outputs
- 1x microSD card slot for additional storage • 1x Gigabit Ethernet with PoE IEEE 802.3at Type 2 support

Compatibility

Standard **Windows & Linux** operating systems • USB3 Vision • GenICam/GenTL • Single SDK/API for all XIMEA camera models
Compatible with over 30 image processing libraries:

• HALCON • LabVIEW • MATLAB • OpenCV •
• Matrox Imaging Library • VisionPro • Common Vision Blox •
• 3DExpress • ActiveGen<i> • Adaptive Vision Studio • Aforge.NET • AQSENSE SAL3D • Astroart • Digital Optics V++ •
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Software, tools & support

Efficient on-site customer support framework
Sample applications and projects
Extensive diagnostics tools for installation and performance troubleshooting

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CG042MG-CM	CG042CG-CM	CG042RG-CM	2048 x 2048	90

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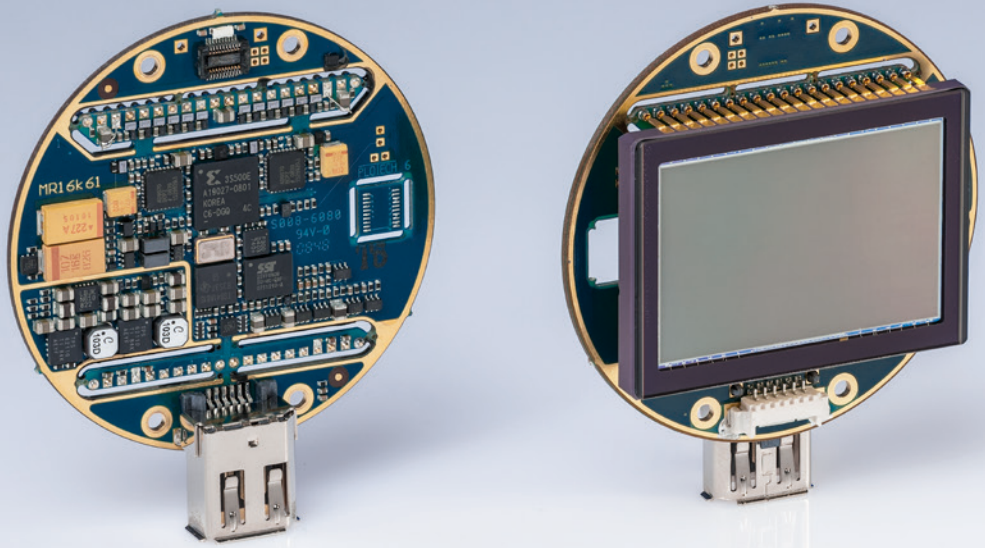
OEM cameras & Custom engineering

Agile
Reliable
Competetive



OEM Cameras & Custom Engineering

When mainstream is not enough.

OEM & Custom engineering When mainstream is not enough.

Key Ingredients

- Highly motivated, able and flexible engineering team.
- Efficient design methodologies and agile development processes.
- Zero defect paradigm Quality management.
- 20+ years of custom engineering experiences, working for major fortune 500 customers.
- Assortment of state of the art CAE and CAD tools on regular maintenance.
- Leading edge measuring and test instruments.
- Ultra-High Vacuum equipment and technologies.
- High speed SMT assembly line and Vapor reflow soldering line.
- Ultra precision machining on our new high-speed Swiss and Japanese CNC machining centers.
- End-to-end surface finishing, coating and ultra-fine laser marking
- Multi-platform software development, maintenance and support
- FPGA and firmware development
- Design for Manufacturability (DFM) and Design for Test (DFT)

Technologies

- Proprietary technology for CCD sensor handling provides low noise readout and reduced power consumption
- Variety of communication technologies: USB 2.0, USB 3.0, FireWire IEEE1394, Gigabit Ethernet
- Low noise signal conditioning and acquisition
- Highly efficient power converters
- Hardware, firmware and software co-development

Guaranteed success

- Multiple completed projects with hundreds of thousand installations.
- Starting from scratch or any existing XIMEA product as a seed all the way up to the full custom development and manufacturing.
- Complete PLM, design data maintenance and tracking of component obsolescence.

Support

- Unique on-site customer support framework
- Sample applications and projects
- Extensive set of application troubleshooting tools
- Hand-out engineering training
- Integration support and consultations

Please contact **sales@ximea.com** for more information on your specific project.

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48165 Münster
Germany
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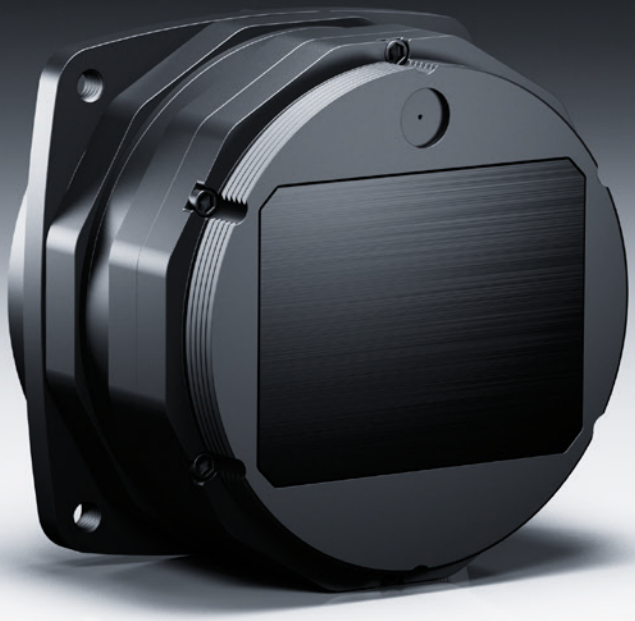
Scientific & high-end cameras

extreme performance
excellent value
exceeds expectations



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Engineered for Extreme Performance

Highlights

- Ultra-low readout noise
- Crystal clear 14 bit/pixel images in all modes
- Partial readout and several binning modes with enhanced sensitivity and higher frame rates
- Compact mechanical housings and single board designs facilitate OEM integrations
- External triggering

Compatibility

- Software Windows and Linux
- Compatible with over 30 image processing libraries
- GenICam/GenTL
- Single SDK/API for all XIMEA camera models
- Interfaces FireWire IEEE1394 and USB 3.0 (introduction in 2013)

Support

- Unique on-site customer support framework
- Sample applications and projects
- Extensive set of installation troubleshooting tools

Models

xiRAY 11 Mpix and 16 Mpix fiber optics coupled x-Ray cameras

Model	Sensor	Resolution	Fiber optic plate
xiRAY11	KAI-11002	4008 x 2672	MH110XC-KK
xiRAY16	KAI-16000	4872 x 3248	MH160XC-KK

xiC 11 Mpix and 16 Mpix Peltier cooled cameras

Model	Sensor	Resolution	B/W cooled	Color cooled
xiC11	KAI-11002	4008 x 2672	MH110MC-KK	MH110CC-KK
xiC16	KAI-16000	4872 x 3248	MH160MC-KK	MH160CC-KK

MR 1.4 to 16 Mpix, optional Peltier cooling

Model	Sensor	Resolution	B/W	B/W cooled	Color	Color cooled
MR285	ICX285	1376 x 1032	MR285MU-BH	MR285MC-BH	MR285CU-BH	MR285CU-BH
MR4021	KAI-4021	2048 x 2048	MR4021MU-BH	MR4021MC-BH	MR4021CU-BH	MR4021CC-BH
MR4022	KAI-04022	2048 x 2048	MR4022MU-BH	MR4022MC-BH	MR4022CU-BH	MR4022CC-BH
MR11002	KAI-11002	4008 x 2672	MR11002MU-BH	MR11002MC-BH	MR11002CU-BH	MR11002CC-BH
MR16000	KAI-16000	4872 x 3248	MR16000MU-BH	MR16000MC-BH	MR16000CU-BH	MR16000CC-BH

MD 2.0 to 29 Mpix, Peltier cooling, USB 3.0 interface (Introduction in 2013)
New generation of cameras based on Sony 4 taps sensors: ICX674, ICX694, ICX814, Kodak 7.4µm family: KAI-02170, KAI-04070, KAI-16070, and 5.0µm family: KAI-02050, KAI-04050, KAI-08050, KAI-29050

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HOW?

to connect Camera Link with USB3 Vision?
to eliminate Camera Link framegrabber?
to stay smart and competitive?

EASY with xiLINK

USB3 Vision to Camera Link intelligent cable

USB3 VISION

ximea

Hook Camera Link camera to USB3 Vision host

Highlights

- All-in-one solution
- Integrated Frame Grabber
- SuperSpeed USB 3.0 / USB3 Vision interface
- Compliant with Camera Link 1.2 Specification (Base Configuration)
- Compliant with Power over Camera Link (PoCL) Specification (12V/4W with Safe Power)
- Power PoCL camera directly from USB 3.0 and USB 2.0 ports
- User configurable Opto-isolated Digital Input (trigger), compliant with IEC 61131-2 (5V/15V)
- User configurable Opto-isolated Digital Output (strobe), compliant with IEC 61131-2 (30V/100mA, short circuit proof)
- LED indication (USB enumeration/PoCL/Link)
- Ambient temperature range 0°C to 60°C
- Mechanical dimensions TBD
- Weight TBD

Compatibility

Software

Single SDK/API for all camera models
Windows and Linux drivers available
Support for over 30 libraries

Hardware

Extended Cable length 5m
Single 26pin Mini-Camera Link style (SDR) Male interface with thumbscrews
Pixel clock from 20MHz to 85MHz
Maximum data throughput 2.04Gbit/s (24bit data)
Intelligent active Y-shaped cable

Interfaces

USB3 Vision™ Standard compliant
USB 3.0 SuperSpeed compliant
Camera Link 1.2 Specification (Base Configuration) Compliant
Power over Camera Link (PoCL) Compliant

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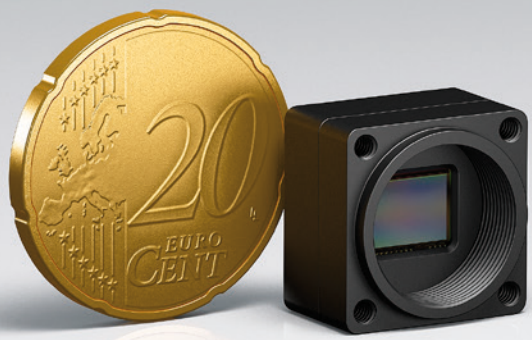
THE SMALLEST

fits your budget
fits your space
fits your application



xiMU

Subminiature camera

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Fits constrained budgets and applications

Highlights

Sensor: Aptina 5Mpix MT9P031, 2592 x 1944 pixels, rolling shutter with Global Reset Release
Active image Size 5.7 x 4.3 mm
12 bit/pixel and 5.8 frames/sec in full resolution
Multiple binning and skipping modes with higher frame rates
Excellent image quality and low light sensitivity

Compatibility

Windows & Linux • GenICam/GenTL • Single SDK/API for all XIMEA camera models
Compatible with over 30 image processing libraries:

• HALCON • LabVIEW • MATLAB • OpenCV •
• Matrox Imaging Library • VisionPro • Common Vision Blox •
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Hardware: Different adapters for M12 (S mount) lenses

Interface: USB 2.0 High-speed

Software, tools & support

Unique on-site customer support framework
Sample applications and projects
Extensive diagnostics tools for installation and performance troubleshooting

Models

Housing	B/W sensors	Color sensors
Mini 15x15x10.5mm	MU9PM-MH	MU9PC-MH
Board level 14x13.2 mm	MU9PM-MBRD	MU9PC-MBRD

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