





X-ray CCD and sCMOS cameras



XIRAY cameras for extraordinary x-ray imaging See the invisible

Facts

- 8.1 15.8 Mpix large area sensors
- Fiber optic coupled phosphor screen
- Sensitive phosphor screens with excellent optical conversion
- Ultra-low readout noise
- Active TEC cooling for thermal noise reduction
- 14 bits per pixel A/D conversion (CCD) or sCMOS image quality
- Partial readout and binning modes for enhanced sensitivity and frame rates

Features

- CCD and sCMOS sensor technology for highest image quality & sensitivity
- Compact camera with full frame sensors with field of view up to 36 x 24 mm
- Fiber optic plate bonded directly to a sensor
- Faceplate scintillators P43 Gd202S:Tb or custom options
- Energy range 5 keV 100 keV
- Low power consumption
- Ultra-precision, aluminum alloy, CNC milled housing



Small and compact

The xiRay cameras use an 11 or 16 MPixel sensor, bonded to a 5 mm fiber-optic plate, coupled to a scintillator sensitive to 5 to 100 keV x-rays. This makes this camera the ultimate camera for micro-tomography, medical applications and inspection such as homeland security, manufacturing and other demanding applications.

Easy to integrate

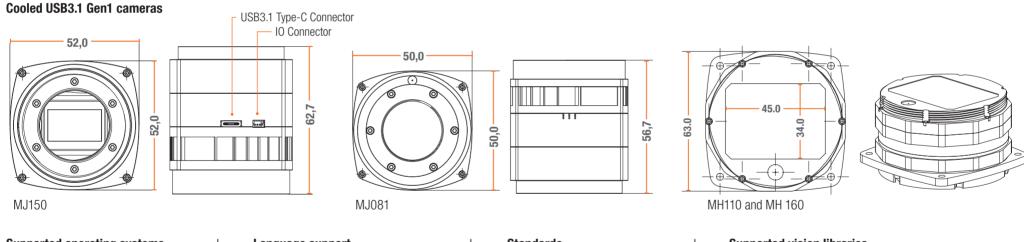
xiRay cameras are easy to deploy and replace with a 5 mm fiber plate that will help protect the sensor from damaging x-rays. When replacement becomes necessary, the robustness and compact build of the cameras allow a guick and easy exchange of the entire camera head.

Optimized for highest image quality and sensitivity

The use of ultra-low noise CCD technology, coupled with moderate cooling, provides superior sensitivity and image quality. All built into a full metal housing that guarantees stability and longevity.

Customizable

We will configure and build xiRay cameras exactly for your specific application requirements. The option set includes other sensors, interfaces, scintilators and housing designs.



Supported operating systems







Language support





Standards





Supported vision libraries



and many more ...

Sensors and models

Model		Sensor	Resolution	Pix. size [µm]	ADC [bits]	DR [dB]	FWC [ke-]	Dark noise [e-]	Sensor size / diagonal [mm]	Fps	Min. sensor temp °C ¹	Interface
MJ081XC-TS-TC	x-ray	OnSemi KAl08052	3296 x 2472 8.1 Mpix	5.5	16	66	25	8.5	18.1 x 13.6 22.3	5.3	-10	USB3.1
MJ081XC-TS-TP1:1.25	x-ray	OnSemi KAl08052	3296 x 2472 8.1 Mpix	5.5	16	66	25	8.5	18.1 x 13.6 22.3	5.3	-10	USB3.1
MJ150XR-GP	x-ray	GPixel GSENSE5130	5056 x 2968 15 Mpix	4.25	2 x 12	77 HDR	18	1.6	21.5 x 12.6 24.9	17	-10	USB3.1
MJ150XR-GP-TP2:1	x-ray	GPixel GSENSE5130	5056 x 2968 15 Mpix	4.25	2 x 12	77 HDR	18	1.6	21.5 x 12.6 24.9	17	-10	USB3.1
MJ150XR-GP-TP2.6:1	x-ray	GPixel GSENSE5130	5056 x 2968 15 Mpix	4.25	2 x 12	77 HDR	18	1.6	21.5 x 12.6 24.9	17	-10	USB3.1
MJ150XR-GP-TP3:1	x-ray	GPixel GSENSE5130	5056 x 2968 15 Mpix	4.25	2 x 12	77 HDR	18	1.6	21.5 x 12.6 24.9	17	-10	USB3.1
MH110XC-KK-FA	x-ray	OnSemi KAI11002	4008 x 2672 10.7 Mpix		10, 12, 14	66	60	10	37.3 x 25.7 45.2	2.1	TBD	Firewire
MH110XC-KK-TP2:1	x-ray	OnSemi KAl11002	4008 x 2672 10.7 Mpix	9	10, 12, 14	66	60	10	37.3 x 25.7 45.2	2.1	TBD	Firewire
MH160XC-KK-FA	x-ray	OnSemi KAI16000	4872 x 3248 15.8 Mpix	7.4	10, 12, 14	65	30	8	36.1 x 24.0 43.3	1.4	TBD	Firewire

Notes

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Further information

Please visit us at www.ximea.com for complete and up-to-date specifications. Get in touch with our teams at sales@ximea.com. We will be glad to assist!





¹ Measurements are valid if additional components are used, such as a power injector. For lower cooling temperatures please inquire with our sales teams. 10°C is achievable with standard configuration.