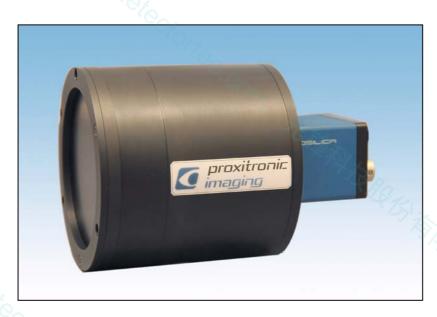


High-Resolution X-Ray Camera HR-75-X-Ray



Model HR-75-X-Ray

Applications:

- X-ray imaging of diffraction or fluorescence and spectral patterns
- X-ray transmission of small objects
- X-ray imaging
- Open face versions for UV and electron detection on request

Technical data HR-75-X-Ray

Camera Specification	
Camera interface	GigE
Framerate	15 fps @ full resolution
CCD sensor	Kodak KAI 4021, 1.2"
CCD pixel	2048 x 2048 (H x V)
CCD pixel size	7.4 µm x 7.4 µm (H x V)
Digitisation	8 bits / 12 bits
Synchronization	External Trigger, fixed frame rate, software trigger
Exposure Control	75µs to 60s
Driver software	Included, ROI, Binning
	~/
Camera Specification	
Field of view	45 mm x 45 mm
Phosphor Coating	P43, other on request
Typical sensitivity range	about 20 to 100 keV (x-ray, other on request)
Input window	Aluminium 0,5 mm or different material on customer request (also "open face" for UV or electron sensitivity)
Resolution	Standard type: ≤50 µm, 11 lp/mm (@ 20% contrast) resolution-optimised version available on request

Description

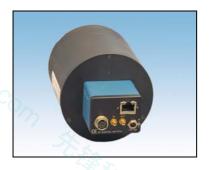
The camera *HR-75-X-Ray* is a high resolution CCD camera with a 75:25 mm fiber optic taper coupling.

X-ray, UV and electron sensitivity is achieved by phosphor coating (typically P43 phosphor)

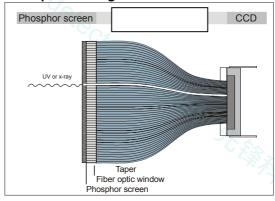
Customised versions are available on request (please specify the radiation to be detected):

- type and thickness of coating
- additional layers (e.g. Alu, ITO)
- type and thickness of input window or "open face"
- camera electronics
- cooling (for certain types)
- · vacuum interface
- field of view

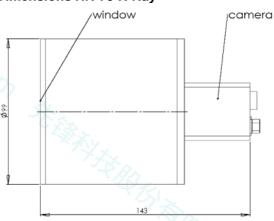
For customised versions please contact us. Based on our engineering and production facilities special versions can be realised.



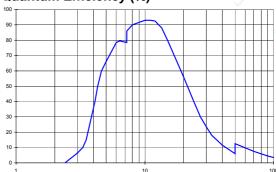
Principle drawing



Dimensions HR-75-X-Ray



Quantum Efficiency (%)



Photon Energy (keV) [Quantum efficiency of P 43 (phosphor quantity: 25 mg/cm², layer thickness: ca. 55 μ m)] P43 is most recommended for a broad x-ray spectrum and UV radiation of a wavelength \leq 250 nm.