

SlimLine

For X-Ray Diagnostics



SlimLine System

Our SlimLine system is a complete lens and camera OEM solution that has been designed and optimized especially for X-ray diagnostics.

The system consists of our SlimLine lens assembly and the QioCam X-ray camera.

SlimLine Lens Assembly

The SlimLine lens assembly is a high resolution modular lens system that uses a combination of high performance optics, mechanics and electronics.

The multifunctional mount allows easy adaption to all image intensifiers.

Key Features of the SlimLine Lens Assembly

- High speed lens for a minimum of X-ray dose
- Compensation of image intensifier vignetting
- High MTF (modulation transfer function) from image center to edge
- Applicable for 20 and 25 mm phosphor Ø of image intensifier
- Universal interface allows coupling to all 9" and 12" image intensifier on market
- Motion control board for motorized iris with GigE and SPI or manual iris with selflocking effect

Available Versions

Motorized iris



Manual iris



QioCam X-Ray Camera

The QioCam X-ray camera is based on the high resolution and sensitivity of CMOS technology.

Key Features of the QioCam X-Ray Camera

- CMOS with global shutter
- Resolution 1 Megapixel
- Dynamic range sensor 72dB
- Dynamic range QioCam 160dB (with gain and iris)
- Saturation capacity 29.000e⁻
- GigE Vision interface
- No frame grabber necessary
- Power consumption 5W/12V
- Single board camera
- Frame rate 30 fps
- Measuring window, adjustable in size and location
- 12 bit digital signal processing
- Bad pixel correction, pixel map
- Frame on demand, hard- or software triggered and free running mode
- Adjustable Gamma correction, compensates non-linearity of image intensifiers
- Automatic gain control
- Optional masterfunction to X-Ray source or camera by hardware trigger
- XR high/low function
- Automatic balance control (AEC + AGC)

Implemented in Image Processing SDK (DLL)

- Easy to use instruction set with .NET assembly
- Circular blanking window selection is changeable in diameter and location
- Shading correction:
 - Horizontal and vertical tilt
 - Horizontal and vertical dome
- Edge enhancement and histogram equalization for better contrast
- Image flip and rotate
- Negative image
- Image subtraction for DSA
- Last image hold
- Recursive filter factors 2 - 16 with optional Auto Motion Detection
- Spine mode

Compliance

- Connectors and PCB are designed to meet UL 94 V-0
- RoHS compliant
- EMI/EMC
The product complies to EN 55011 - 03/2017. For compliance of X-Ray device, we recommend the use of high quality connectors and shielded cables.



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