LINOS

A member of the Qioptiq Group

Luma X-system

for X-Ray Diagnostics

LumaGon

The LumaGon consists of a high performance combination of optics, mechanics and electronics. The result is a modular image head optimized for the special requirements of X-Ray diagnostics. The multi-functional mount allows easy adaptability to most Image Intensifiers for quick and cost effective installations.

How our LumaGon will support your application

- The specially optimized LINOS LumaGon is an ideal lens for single port X-Ray devices
- High light transfer for a minimum of X-Ray dose
- The optical system is free of vignetting
- High modulation transfer function from the center to the edge of the image
- Very small external dimensions due to the compact design
- A universal interface system design allows direct coupling to most image intensifiers
- The standard C-mount camera interface makes it suitable for various camera systems
- Motorized iris
- Optional ND-filter for a high dynamic range
- Optional photo diode for the automatic exposure control
- Suitable for most image intensifiers

LumaCam
– the next X-Ray Generation for Real Time Imaging

How our LumaCam CCD Camera will support your application

- Sensor: interline transfer CCD; progressive scan with microlenses
- Resolution: 1024 (H) x 1024 (V)
- Sensor format: ½ inch; 5,5µm x 5,5 µm pixel size
- High effective dynamic range of 61dB and a full well capacity of 20.000e-
- Output/Control interface: GigE Vision
- Power consumption of 4 Watts only, 12V – 32V DC
- Very flat design in order to create a short image chain

How our real time image processing will support your application

- Frame rate 30 fps
- 14 bit digital signal processing
- Bad pixel compensation
- Frame on demand
- Circular blanking window selection is changeable in diameter and location
- Shading correction: horizontal and vertical, tilt and dome correction
- Gamma correction, adjustable, compensation of the non-linearity of the X-Ray image intensifier
- Edge enhancement for a better contrast
- Image flip horizontal and vertical
- Negative image
- Automatic gain control
- Last image hold
- Recursive filter Factors 2, 4, 8, and 16
- Technical support through the cooperation partners Linos and Kappa, both located in Germany

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This High Resolution (HR) system is ideal for use in both medical and non destructive testing applications.

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