ProLine PL16803 LDR

4096 x 4096 Imaging Array Size
9 µm Pixel Size

FLI's DR Line of cameras are specifically designed for Digital Radiography applications. The ProLine PL09000LDR and ProLine PL16803LDR systems feature small back-focus requirements (approaching 0 mm), FLI's proprietary anti-ghosting technology, excellent linearity, fast user-selectable download speeds, precision regulated cooling and expertly matched sensor electronics that result in unparalleled low-noise frame quality.
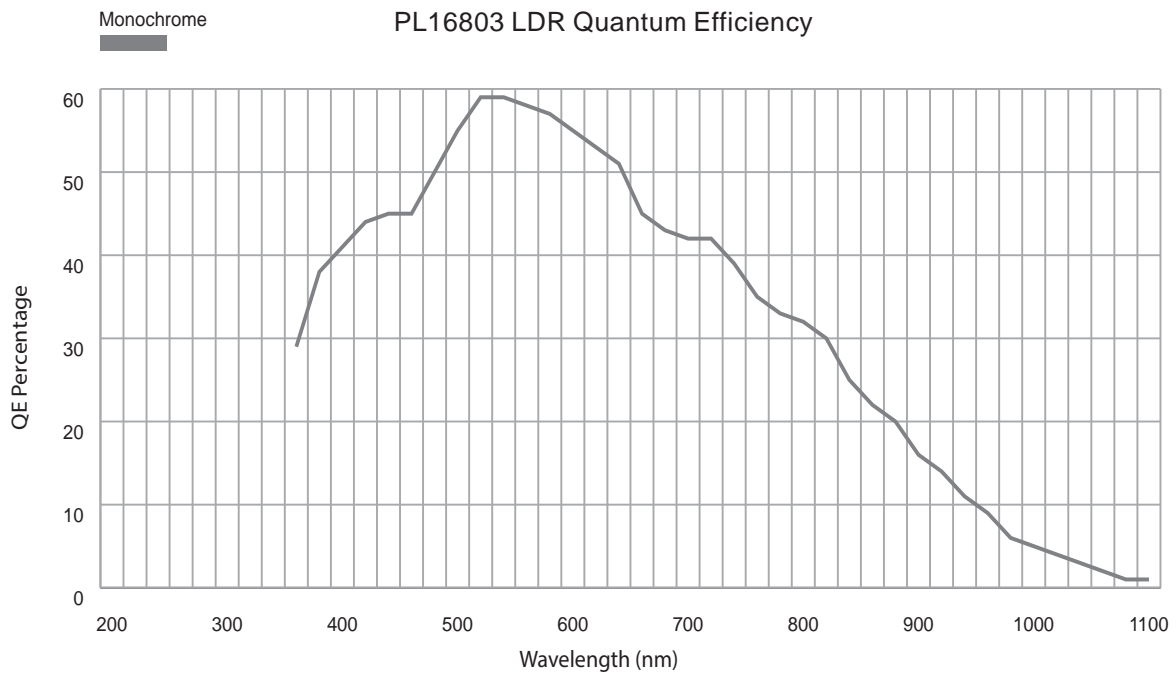
Applications

Digital Radiography

Features	Benefits
8 MHz Download Speed	Fast image capture with full 16-bit resolution
4096 x 4096 Array Size / 9 µm Pixel Size	Resolves fine detail
Flexible Binning and Readout	Increases frame rate
Thermoelectric Cooling to 50ºC Below Ambient	Excellent low-noise imaging
Excellent Quantum Efficiency	High sensitivity for fast image acquisition
Compatible LDR Lenses	DDR RELAY HELIGON, 3801-438-000-20-0001a DDR RELAY HELIGON, 3801-438-000-20-0103a XV HELIFLEX, 3801-382-000-21-0002d (special order) XV HELIGON, 3801-437-000-20-0102c XV HELIGON, 3801-452-000-20-0102a Contact FLI if you don't see your lens listed
Acquisition Software	Supplied with camera and includes our open source SDK
USB 2.0 Interface	Industry standard connectivity, fast data transfer

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Monochrome

PL16803 LDR Quantum Efficiency

PL16803LDR Specifications	
Sensor	KAF-16803
Array Size	4096 x 4096
Pixel Size	9 µm
Typical Maximum Cooling	50ºC Below Ambient
Typical Download Speed @ 16-bit	8 MHz
Typical System Noise	13 - 14 e- RMS @ 8 MHz
Nonlinearity	<1%
Temperature Stability	0.1ºC
Operating Environment	-30ºC - 45ºC | 10% - 90% Relative Humidity
Sensor Manufacturer	Kodak
CCD Grades Available	Standard
CCD Type	Front Illuminated
Color/Monochrome	Monochrome
Mega Pixels	16.8
Sensor Diagonal	52.1 mm
Linear Full Well	100,000 e-
Typical Dark Current	≤ 0.01 e-/pixel/sec @ -30ºC
Anti Blooming	100X saturation exposure
Anti-Dew Technology	Included / Standard
Available Shutters	N/A
Shutter MTBF	N/A
Remote Triggering	Yes
Power	12v
Interface	USB 2.0
Dimensions	6.2 x 6.2 x 3.8 (157.48 x 157.48 x 96.52)
Weight	5.6 lbs. (Liquid Cooled - 4.6 lbs.)

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