

3056 x 3056 Imaging Array Size 12 μ m 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.

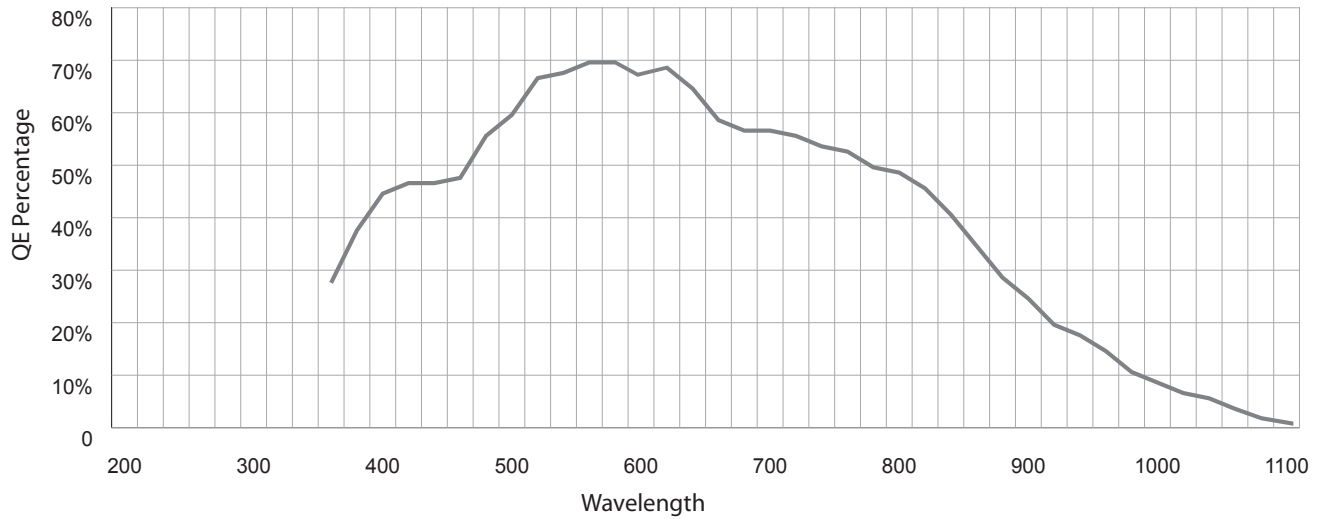


Applications

Digital Radiography

Features	Benefits
8 MHz Download Speed	Fast image capture with full 16-bit resolution
3056 x 3056 Array Size / 12 μ m Pixel Size	Resolves fine detail
Flexible Binning and Readout	Increases frame rate
Thermoelectric Cooling to -45° C Δ T	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
Acquisition Software	Supplied with camera and includes our open source SDK
USB 2.0 Interface	Industry standard connectivity, fast data transfer

PL09000LDR Quantum Efficiency

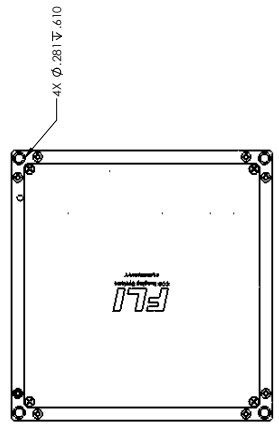
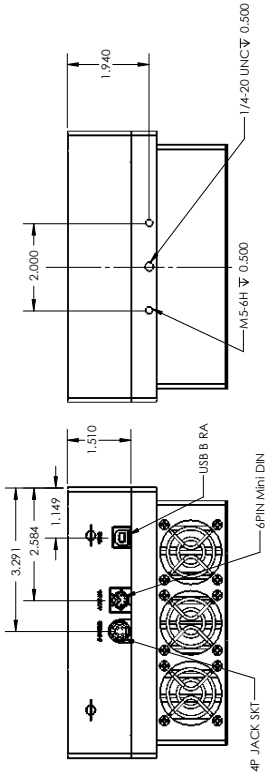
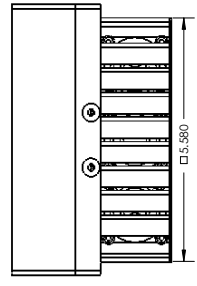
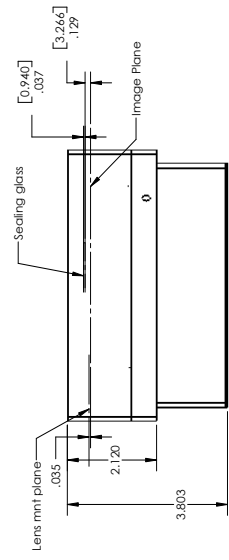
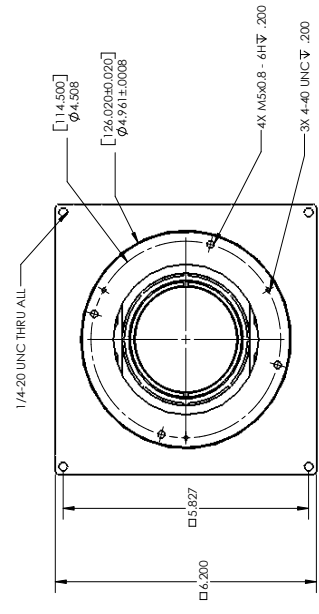
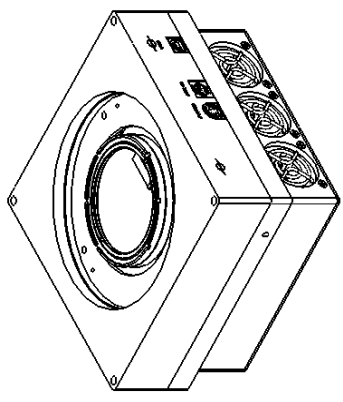


PL09000LDR Specifications

Sensor	KAF-09000
Array Size	3056 x 3056
Pixel Size	12 μ m
Typical Maximum Cooling	-45° C Below Ambient
Typical Download Speed @ 16-bit	8 MHz (other speeds available)
Typical System Noise	13 - 14 e- RMS @ 8 MHz
Nonlinearity	<1%
Temperature Stability	0.1° C
Operating Environment	-30° C - 45° C 10% - 90% Relative Humidity
Sensor Manufacturer	Kodak
CCD Grades Available	Standard
CCD Type	Front Illuminated
Color/Monochrome	Monochrome
Mega Pixels	9.3
Sensor Diagonal	51.9 mm
Linear Full Well	110,000 e-
Typical Dark Current	\leq 0.1 e-/pixel/sec
Anti Blooming	None
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)

* Due to continuous development all specifications subject to change

REV	DESCRIPTION	DATE
A	Release	6/23/2019



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: ANGULAR .1° HOLE POSITION .010 THREE PLACE DECIMAL .003 FOUR PLACE DECIMAL .0003 HOLE POSITION .003 HOLE POSITION .003	DRAWN CHECKED ENG APPR MFG APPR Q.A.	NAME REC DATE 06/18/09	DATE 06/18/09
PL16803 LINOS438 AC TITLE: PL LINOS_3801-438-000-20-0001G-A			
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