

ProLine PL09000 LDR

3056 x 3056 Imaging Array Size
12 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

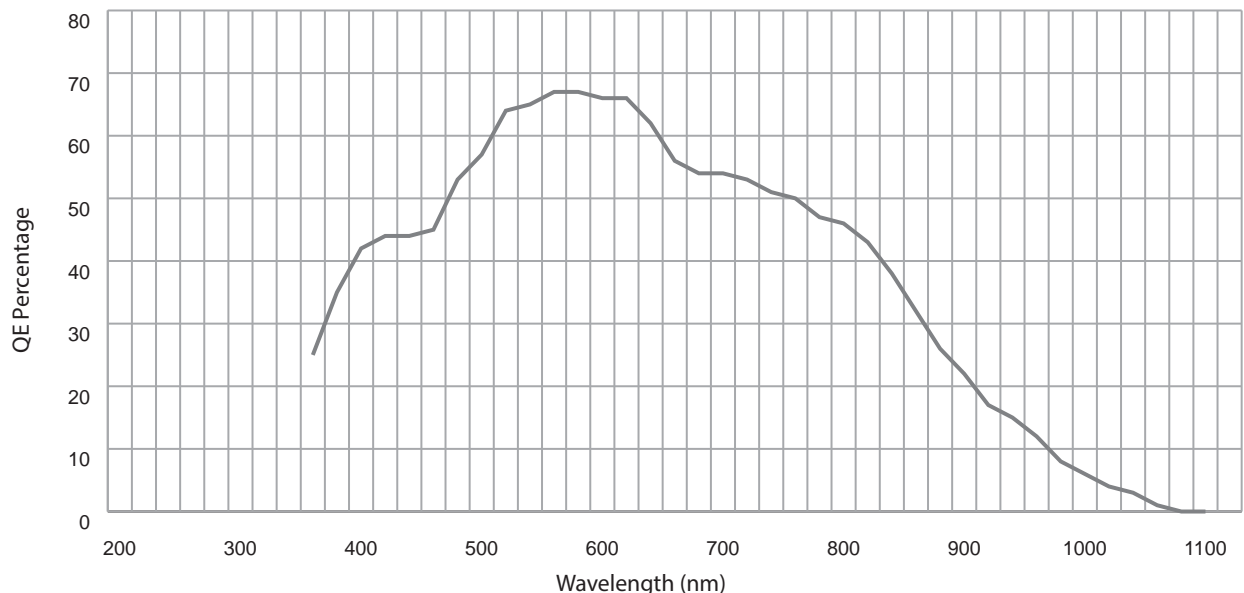
Digital Radiography

Features	Benefits
8 MHz Download Speed	Fast image capture with full 16-bit resolution
3056 x 3056 Array Size / 12 μm Pixel Size	Resolves fine detail
Flexible Binning and Readout	Increases frame rate
Thermoelectric Cooling to 45° 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



Monochrome

PL09000LDR Quantum Efficiency



PL09000LDR Specifications

Sensor (Kodak)	KAF-09000
Array Size	3056 x 3056
Pixel Size	12 μm
Typical Maximum Cooling	45° C Below Ambient
Typical Download Speed @ 16-bit	8 MHz
Typical System Noise	13 - 15 e- RMS @ 8 MHz
Nonlinearity	<1%
Temperature Stability	0.1° C
Operating Environment	-30° C - 45° C 10% - 90% Relative Humidity
FLI Model	PL09000LDR
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	≤ 0.2 e-/pixel/sec @ 45° C Below Ambient
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)
Weight	6 lbs.

* Due to continuous development all specifications subject to change

