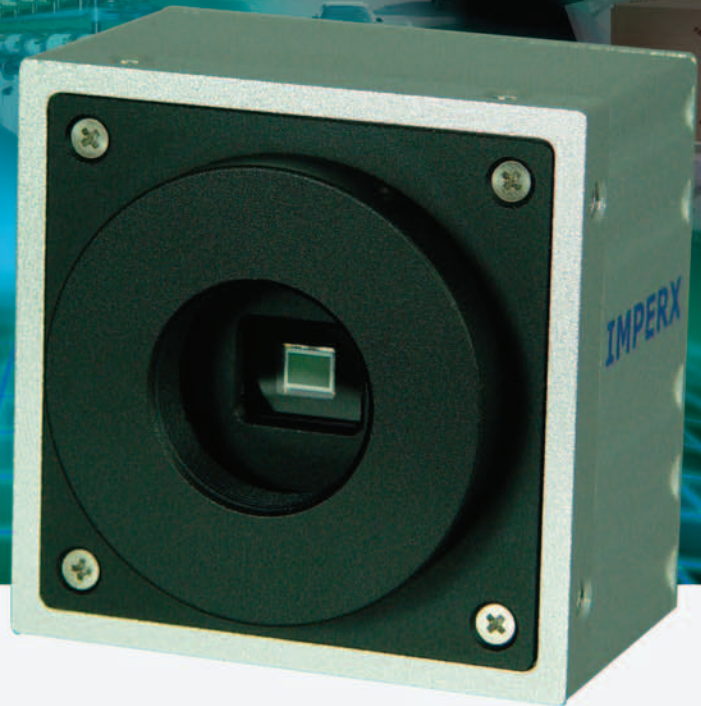


VGA 8/10/12 BIT, 210 FPS, PROGRAMMABLE DIGITAL CAMERA

IPX-VGA120-L
IPX-VGA210-L



Features

- 640 x 480 pixels @ 210 fps
- Mono or Color
- 8/10/12 bit data, Base Camera Link
- Single or Dual tap operation
- RS232 serial communication
- 32 bit RISC processor
- Horizontal and vertical binning
- Highly programmable:
 - resolution • frame rate
 - electronic shutter • long integration
 - external trigger • pre-exposure
 - fast triggering • double exposure
 - strobe output • gain and offset
 - area of interest • user LUT
- Dynamic Transfer Function correction
- Dynamic Black Level Compensation
- Temperature monitor
- Field upgradeable:
 - SW • FW • LUT • DPC
- Defective Pixel Correction
- Automatic Iris Control - optional

Applications

- Medical and Scientific Imaging
- Machine Vision and Metrology
- Microscopy
- Remote Sensing
- Surveillance

The **IPX-VGA210-L** is an advanced, high-speed progressive scan, fully programmable and field upgradeable CCD camera, built around KODAK's KAI-0340 interline transfer CCD. The camera provides 640 x 480 resolution and delivers 210 frames per second at full resolution. The camera image processing engine is based on a 1 million gate FPGA and 32 bit RISC processor, featuring programmable resolution, AOI, binning, triggering, shutter, long integration, transfer function correction and user LUT. Support for DPC.

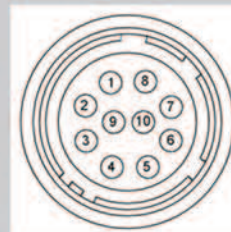
FAST...SMART...FLEXIBLE...
LYNX FAMILY



Specifications for IPX-VGA120-L, IPX-VGA 210-L

Active Image Pixels	640 (H) x 480 (V), Mono or Color
Active Image Area	4.74 mm x 3.55 mm
Pixel size	7.4 μ m
Video Output	Digital, 8/10/12 bit, one or two outputs
Camera Interface	Base Camera Link
Data Clock	40.000 MHz
Resolution	640 x 480 pixels max
Frame Rate - VGA210	210 fps (dual) / 120 fps (single), up to 3000 fps w/AOI
Frame Rate - VGA120	120 fps (single), up to 2800 fps w/AOI
Shutter Speed	1/50000 sec to 1/100 sec
Long Integration	1/100 sec to 10 sec
Gamma Correction	G=1.0, G=0.45, User defined LUT
Black Level Offset	256 levels/output
Video Gain	6-40 dB, 1024 steps/output
External Trigger	Asynchronous
Hardware Trigger	External, level sensitive, 3.3V - 5.0V, 10 mA., optically isolated, programmable exposure
Software Trigger	Frame-grabber, CC1, programmable exposure
S/N Ratio	60 dB
Strobe Output	Active HIGH, for external light source
Lens Mount	C mount, 1/3" format
Environmental	Operating: -5 to 50 C, Storage: -10 to 65 C
Min. Illumination	1.0 Lux, f=1.4, no IR cut filter, no shutter
Mechanical	(67 x 67 x 41) mm; 10 oz (280 g)

Power Connector



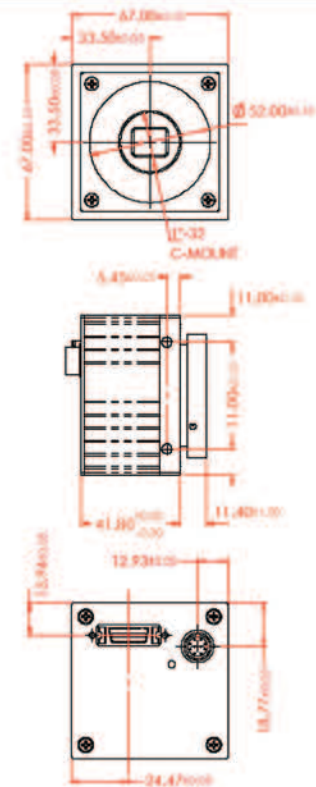
Rear Camera View

- 1 Trigger IN -
- 2 Trigger IN +
- 3 -12 VDC
- 4 -12 VDC
- 5 +12 VDC
- 6 +12 VDC
- 7 Strobe OUT -
- 8 Strobe OUT +
- 9 Auto Iris +
- 10 Auto Iris -

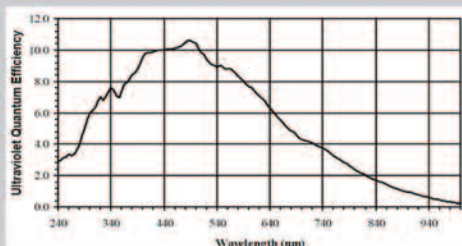
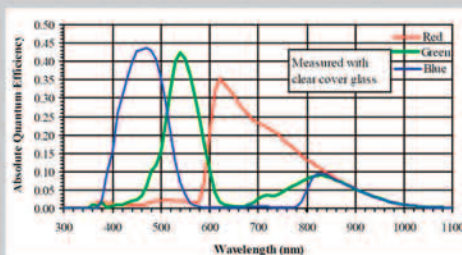
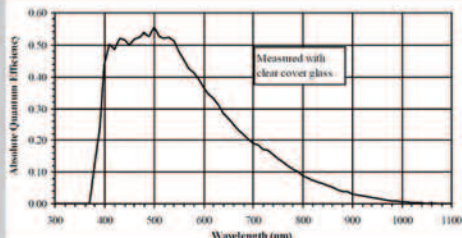
Power Requirements

- 12V DC, (10V min, 15V max)
- 350 mA steady, 1.0 A inrush
- 4.2 W constant power
- Connector: Hirose HR 10A-10R-10P

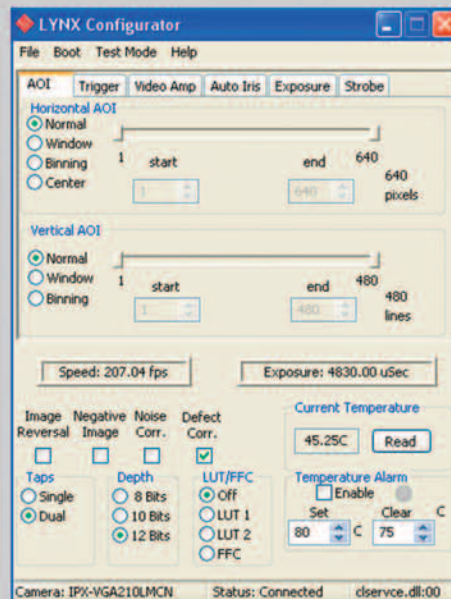
Mechanical Dimensions



Spectral Response



Configuration Utility



- CameraLink protocol compliant
- Control all camera features via:
 - our intuitive, easy-to-use GUI, or
 - simple ASCII commands

Ordering: IPX-VGA210-LMC1

210 - 210 fps
120 - 120 fps

Camera Family
L - LYNX Family
Sensor Type

Options
blank - none
I - Auto Iris
Lens Mount
C - "C" mount (default)
O - Open frame
S - "CS" Mount

M - Monochrome U - UV sensitive (no glass)
C - Color S - Special - user filter

For specific details and ordering information, consult the camera user's manual or contact us at sales@imperx.com.

Copyright © 2004, Imperx, Inc. Product information subject to change without notice.

Rev. 2.0, 05/01/06



Imperx Incorporated • 6421 Congress Avenue • Boca Raton, FL 33487 • USA
Phone: 1-561-989-0006 • 1-866-849-1662 • Fax: 1-561-989-0045
www.imperx.com • sales@imperx.com

Made in USA

