

Imager *pro X* 2M



Imager *pro X*2M is a high sensitivity, high resolution digital camera used in the LaVision **FlowMaster** PIV system. The camera is equipped with an interline transfer chip with progressive scan readout and up to 4 GB memory in the camera head to store more images faster than any interface to a PC can currently handle.

The min. interframe time of 110 ns makes this camera ideal for high velocity PIV measurements.

General System Specifications

Double shutter	two images with 110 ns min. interframing time
Dynamic range A/D	14 bit
Cooling	Peltier to +10 °C
CameraLink interface (framegrabber included), Firewire on request	
Lens mount:	F-mount, (optional c-mount)
Number of pixels	1600 x 1200 pixels (extended mode 1648x1214)
Pixel size	7.4 x 7.4 µm ²
Sensor format	12.2 x 9.0 mm ²
Spectral range	290 – 1100 nm
Max. QE	typ. 55 % @ 500 nm
Full well capacity	40,000 e ⁻
Blooming suppression	> 300 x
Readout (scan) rate	40 MHz
Frame rate	30 frames/s
Binning	horizontal 1, 2 ; vertical 1, 2, 4, 8
Partial scan	frame rate up to 135 Hz (160 x 120 pixel AOI)
Operating temp.	5 – 40 °C
Size of camera head	84 x 66 x 175 mm ³

optional: DaVis Software / PC / timing unit

Operation System	Windows XP
Data acquisition	user programmable
Command Language	'C' syntax for system and user functions
Device control	laser, stepping motor, Autofocus, Scheimpflug

Ordering Information

part number	description
1101340	Imager <i>pro X</i> 2M camera with 512 MB memory, CamLink
1101360	Imager <i>pro X</i> 2M camera with 1 GB memory, CamLink
1101320	Imager <i>pro X</i> 2M camera with 2 GB memory, CamLink
1101380	Imager <i>pro X</i> 2M camera with 4 GB memory, CamLink
1101350	Imager <i>pro X</i> 2M camera with 512 MB memory, FireWire
1101370	Imager <i>pro X</i> 2M camera with 1 GB memory, FireWire
1101330	Imager <i>pro X</i> 2M camera with 2 GB memory, FireWire
1101390	Imager <i>pro X</i> 2M camera with 4 GB memory, FireWire

Data provided by LaVision
is believed to be true.
However, no responsibility
is assumed for possible
inaccuracies or omissions.
All data are subject to
change without notice.
Aug-06

LaVision GmbH

ANNA-VANDENHOECK-RING 19 / D-37081 GOETTINGEN / GERMANY
E-MAIL: INFO@LAVISION.DE / WWW.LAVISION.DE
TEL. +49-(0)5 51 - 90 04- 0 / FAX +49-(0)5 51 - 90 04- 100

LaVision Inc.

301 W. MICHIGAN AVE. / SUITE 403 / YPSILANTI, MI 48179 / USA
E-MAIL: SALES@LAVISIONINC.COM / WWW.LAVISIONINC.COM
TEL. (734) 485 - 0913 / FAX (248) 465 - 4306