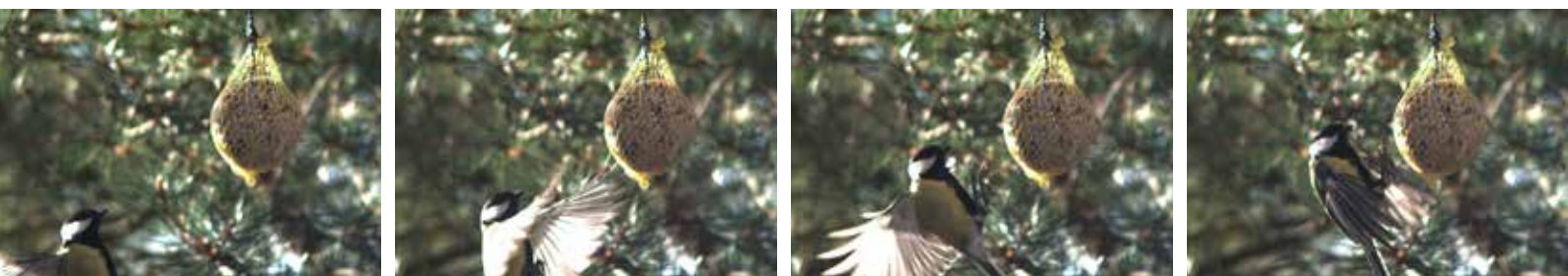


# L-PRI – High-speed camera



## L-PRI – a high performance compact high speed camera

**High light sensitive high speed camera with Full HD Resolution 1920 x 1080 pixel at up to 3500 fps.**

The L-PRI is particularly suited for all applications where a compact, portable, high resolution and robust camera is essential. The highly light-sensitive sensor covers the most ambitious application. The L-PRI camera models are available in various speed grades:

L-PRI 1000: up to 1000fps @1920 x 1080

L-PRI 1500: up to 1500fps @1920 x 1080

L-PRI 2000: up to 2000fps @1920 x 1080

L-PRI 3500: up to 3500fps @1920 x 1080

### Unique features and benefits

- **Superior image quality** – With its 1920 x 1080 pixel sensor with newest 10 micron pixel technology the L-series offers ISO 6000 for color and ISO 8000 for mono.
- **Packed with memory** – L-PRI is available with stunning memory sizes of 8 / 16 / 32 / 64 / 128 GB.
- **Software** – The Imaging Studio v4 SW suite leaves nothing to be desired for even the most demanding applications.



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# L-PRI – Key Specifications

## Resolution vs frame rate

Resolution	L-PRI 1000	L-PRI 1500	L-PRI 2000	L-PRI 3500
1920 x 1080	1000	1500	2000	3500
1920 x 900	1200	1810	2410	4180
1920 x 720	1500	2260	3000	5250
1920 x 512	2080	3140	4160	7240
1920 x 256	4000	6030	8000	15'600
1920 x 128	7410	11'180	14'830	24'200
1920 x 16	29200	44'140	58'570	76'400

Resolution and fps may be set individually in the given speed ranges. Gain in fps by reducing the vertical resolution.

## Recording time in sec vs memory size at full resolution and max fps

Memory Size (GB)	L-PRI 1000	L-PRI 1500	L-PRI 2000	L-PRI 3500
8	4.1 sec	2.7 sec	1.5 sec	1.2 sec
16	8.2 sec	5.4 sec	4.1 sec	2.3 sec
32	16.5 sec	11.0 sec	8.2 sec	4.7 sec
64	33.0 sec	22.0 sec	16.4 sec	9.3 sec
128	66.0 sec	44.0 sec	32.8 sec	18.8 sec

## Optical specifications

<b>Sensor Type</b>	CMOS Sensor
<b>Pixel Size</b>	10 micron
<b>Sensor Format</b>	4/3"
<b>Light Sensitivity</b>	ISO 8000 (mono) ISO 6000 (color)
<b>Exposure Time</b>	Global, from 1/framespeed down to 2 µsec
<b>Dynamic Range</b>	10 Bit
<b>Gain</b>	3 gain settings available by means of control software
<b>Lens Mount</b>	C-Mount, adapter for F-Mount optional

## Camera and control features

<b>Buffer Type</b>	Circular buffer, parametrized by software
<b>Trigger IN</b>	Trigger input for start stop recording, falling edge, switch closure
<b>Trigger Modes</b>	Pre- post recording settings adjustable in steps of 1 frame
<b>Lens Mount</b>	C-Mount, adapter for F-Mount optional
<b>I/O Tolerance</b>	TTL compatible I/O
<b>Power Requirements</b>	10...36V / 30Watts
<b>Sync in / out</b>	Sync in / out on camera
<b>Auto Download</b>	Auto download to PC after recording

## Imaging studio features

<b>Imaging Studio</b>	Software suite to parameterize and control camera, handle data download and conversion of native files into most common single images and movie formats. Runs on Win 7/10, 32/64 Bit
<b>Parameterization</b>	Set all camera parameters for recording by convenient and easy-to-use software interface supports graphical setting of resolution
<b>Display</b>	Display multiple cameras simultaneously
<b>Editing</b>	Play back, edit and save sequences after recording with a few clicks
<b>OSD (on screen display)</b>	OSD with camera parameters
<b>Overlay</b>	Overlay of recorded image with user adjustable opacity
<b>Motion Analysis</b>	Basic 2D motion analysis with automatic tracking of up to 5 points optional
<b>Export</b>	Export of AOS native file format to avi, mpeg, mpeg4, bmp, tif, png, jpg
<b>Image Processing</b>	Manual or automatic color correction and white balance functionality
<b>Batch Converter</b>	Convert native files to movie files using off-line batch conversion

## Data interface

<b>Data</b>	Gigabit Ethernet
<b>I/O</b>	Solid 14 pin LEMO connector
<b>Trigger Modes</b>	Pre- post recording settings adjustable in steps of 1 frame
<b>Armed OUT</b>	Armed out to indicate camera status ready for recording

## Physical specifications

<b>Size</b>	w:98 x h:98 x l:118 mm ( w: 3.8" x h3.8" x 4.6")
<b>Weight</b>	1.5kg
<b>Storage Temp.</b>	-40°C ... +70°C non condensing
<b>Working Temp.</b>	-5°C to 35°C
<b>Mounting</b>	3 x M6 on top and bottom / 1/4" UNC for tripod mount
<b>CE</b>	Complies with CE