

# iNova

## PLB-C2



### Multi-purpose camera

*From lunar/solar imaging to autoguiding*

*Sony Super HAD ICX204AK—800 Kpx Color CCD Sensor*

#### Description

- **Sony Super HAD ICX204AK CCD sensor (1024 x 768 pixel array)** with a very high quantum efficiency in the whole visible spectrum.
- Ideally suited for **lunar/solar high resolution imaging, and deepsky imaging**, thanks to a very good sensitivity in the whole visible spectrum range, with a low electronic noise which allows long exposure times.
- Provides **2x2 binning** (512 x 384) to get a 9.3 $\mu$ m square pixel to be able to detect a faint star for **autoguiding**.
- **C-mount thread** (this standard allows users to take different kinds of adapters like 1.25" eyepiece holder, camera objective lens with step down ring, ...).

## Technical features

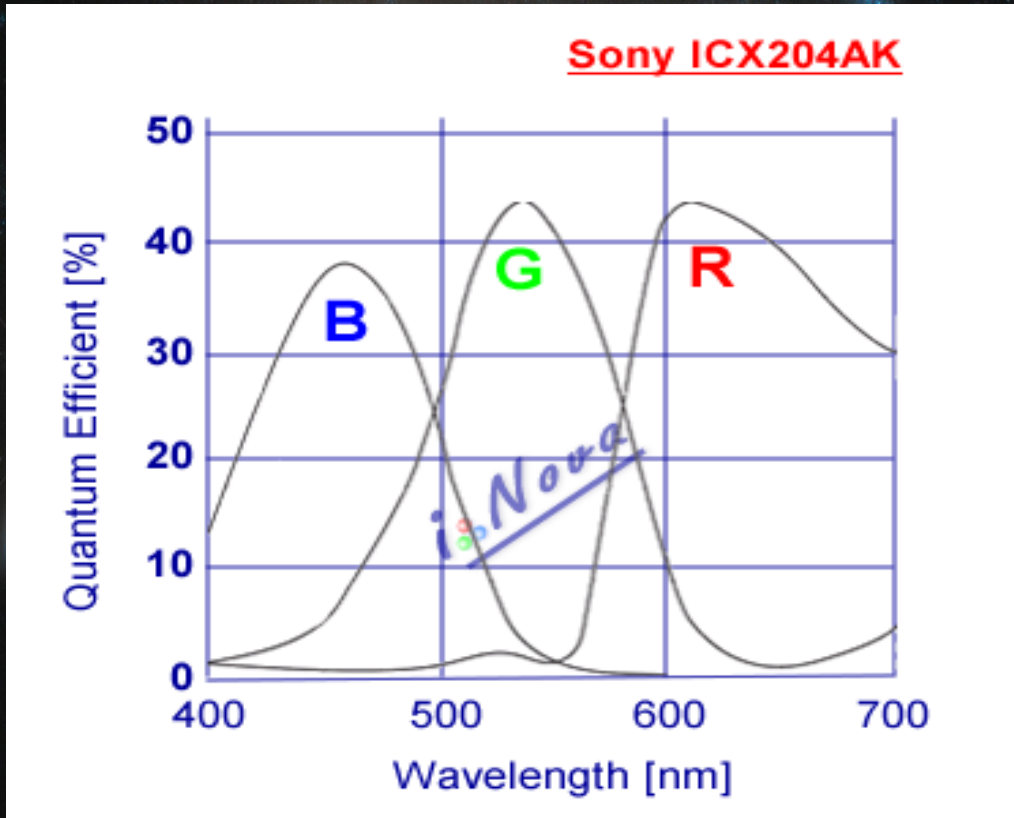
CCD Sensor	Sony Super HAD ICX204AK 1/3"
CCD Matrix (L*H)	1024*768
Pixel size	4.65µm x 4.65µm
Binning 2x2	✓
ROI (region of interest)	✓
A/D converter	10/12bit
Frame rate (8/12bit)	Up to 24 FPS at full resolution
Exposure time	From 0.1ms to infinity
Interface	USB2.0
Communication port	For filter wheel control, focusing motors control and telescope mount control (ASCOS V6)
File format	BMP, AVI (8bit), FITS (8/16 bit) and SER (8/16bit) which can be read directly with main softwares like RegiStax V6.1, Avistacker V2, AutoStakkert! V2
ASCOS	ASCOS V6 Plugin available and tested with PHDGuiding V1.14, AstroArt V4 & V5, MaximDL V5, Prism and all softwares using ASCOS protocol
Dimensions	50 x 50 x 40mm
Weight	170g (6 oz)



## Software and compatibility

<b>Microsoft</b>	<b>Windows XP SP3, Vista, W7, 8, 8.1 x86/x64</b> Compliant with Microsoft Directshow. The SDK is available on request for programming (Microsoft C# or C++).
<b>Linux</b>	Linux drivers (INDI) are available.
<b>MacOS</b>	Drivers are not available but it is possible to run <i>i-Nova</i> cameras in <b>emulation Windows mode</b> with Bootcamp.

## Quantum efficiency



### Included accessories

- **C mount to 1.25" adapter**
- **USB2 cable** for PC connection
- **Software pack** including:
  - PLxCapture control and acquisition specific software and conversion format utility (video),
  - ASCOM plugin.

*New software releases are available for download from FTP site [www.inova-ccd.fr/download](http://www.inova-ccd.fr/download)*

### Options

- **Autoguiding cable RJ12 connector for ST4 port.**
- **Peltier cooling system kit** with or w/o temperature regulation.

### Recommended accessories

- **Motorized filter wheel** - 5 or 8 positions - provided with ASCOM plugin
- **Electronic viewfinder:** C/CS mount objective lens, FL from 2.1mm (150° fov) to 25mm (11° fov)
- **GPS module** with USB2.0 port
- **C mount to female T2 adapter**

## Performance

Frame rate (FPS) at full resolution:

Mode	Frame rate
8bit	until 24 FPS
12bit	until 12 FPS



*PLB-C2 Camera - USB2.0 , ST4  
and TTL serial communication ports*



*Camera attached on an **objective lens***



*PLB-C2 Camera - Front side*



*Camera has a **female Kodak thread socket***