

iNova

PLA-M



Multi-purpose camera

From planetary imaging to autoguiding

Sony HAD ICX098BL-E - 310Kpx Monochrome CCD Sensor

Description

- **Sony HAD ICX098BL-E CCD sensor (640 x 480 pixel array)** with a high quantum efficiency in the visible spectrum.
- Ideally suited for **planetary high resolution imaging**, thanks to a good sensitivity in the visible spectrum.
- Provides **2x2 binning (320 x 240)** to get a 11.2 μ 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

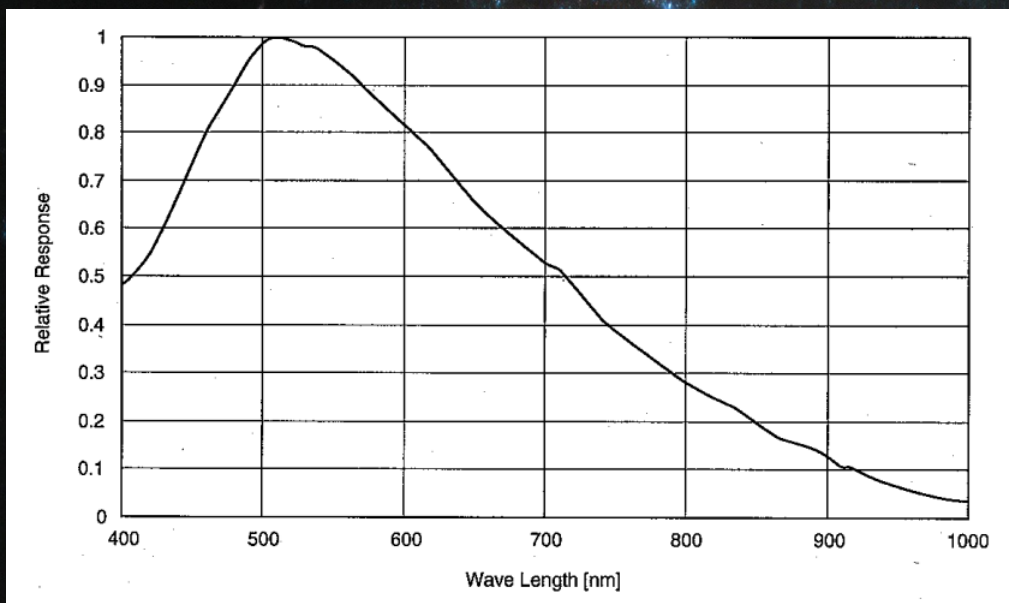
CCD Sensor	Sony HAD ICX098BL-E 1/4"
CCD Matrix (L*H)	640*480
Pixel size	5.6µm x 5.6µm
Binning 2x2	✓
ROI (region of interest)	✓
A/D converter	10/12bit
Frame rate (8/12bit)	Up to 60 FPS at full resolution
Exposure time	From 0.1ms to infinity
Interface	USB2.0
Communication port	For filter wheel control, focusing motors control and telescope mount control (ASCOT 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
ASCOT	ASCOT V6 Plugin available and tested with PHDGuiding V1.14, AstroArt V4 & V5, MaximDL V5, Prism and all softwares using ASCOT protocol
Dimensions	50 x 50 x 40mm
Weight	170g (6 oz)



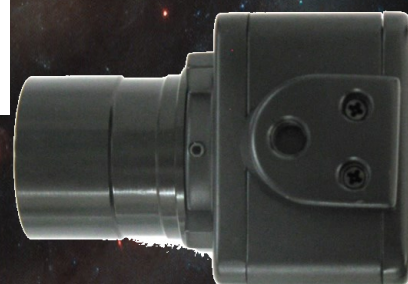
Software and compatibility

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

Quantum efficiency



PLA-M Camera - USB2.0 , ST4 and TTL serial communication ports

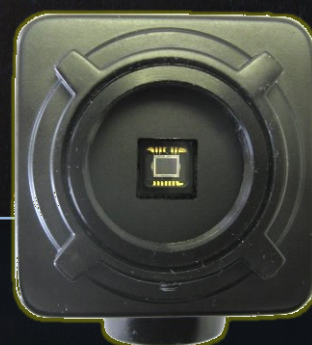


Camera has a female Kodak thread socket

Performance

Method to reduce readout noise with lower frequency:

Mode	Usage	Frequency
Fast mode	Planetary 8/12bit	24Mhz
Normal mode	Planetary 12bit	12Mhz
Low speed mode	Visual enhancement & Deepsky 12bit	6Mhz



PLA-M Camera - Front side

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

Options

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

Recommended accessories

- **Motorised 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**