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ZWO ASI120MC-S Colour Astronomy Camera

AUD
\$269.00

Product Images



Short Description

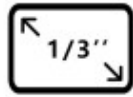
The ASI120MC-S is a super fast and sensitive USB 3.0 camera. Reach up to 60FPS under 1280X960 full resolution.

Description

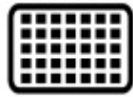
Product Description



Sensor
AR0130CS



1/3"
4.8*3.6mm



Resolution
1280*960



ADC
12bit



QE
75%



Read Noise
4.0e



FPS
60



Full well
13000e



USB
3.0



Pixel Size
3.75µm

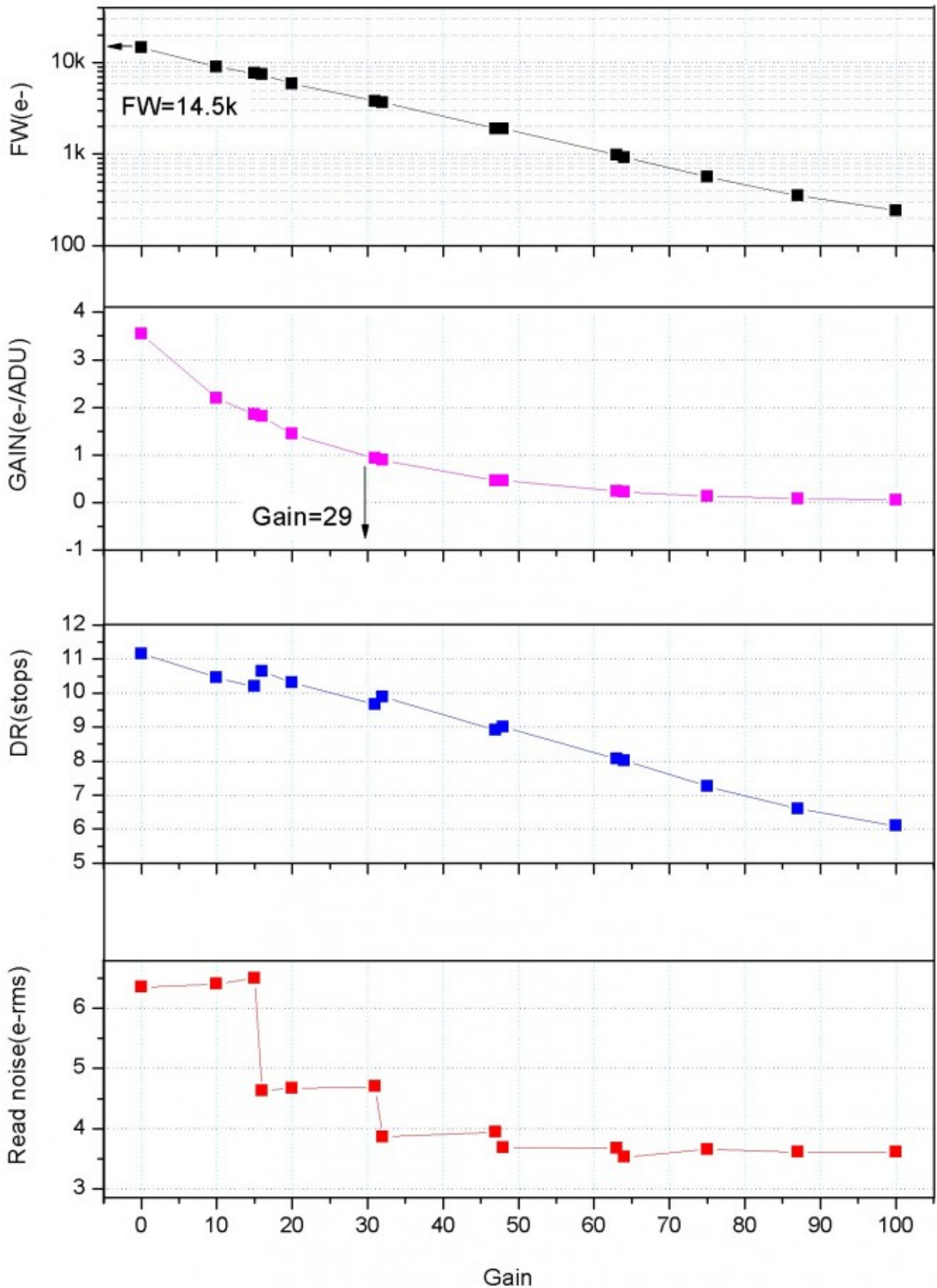
Camera Sensor

The **ASI120** camera uses a **AR0130CS** 1/3" sensor (4.8 mm x 3.6 mm). This camera has **1280 x 960 pixels**. The pixel size is 3.75 µm x 3.75 µm. This camera provides **12bit** ADC.

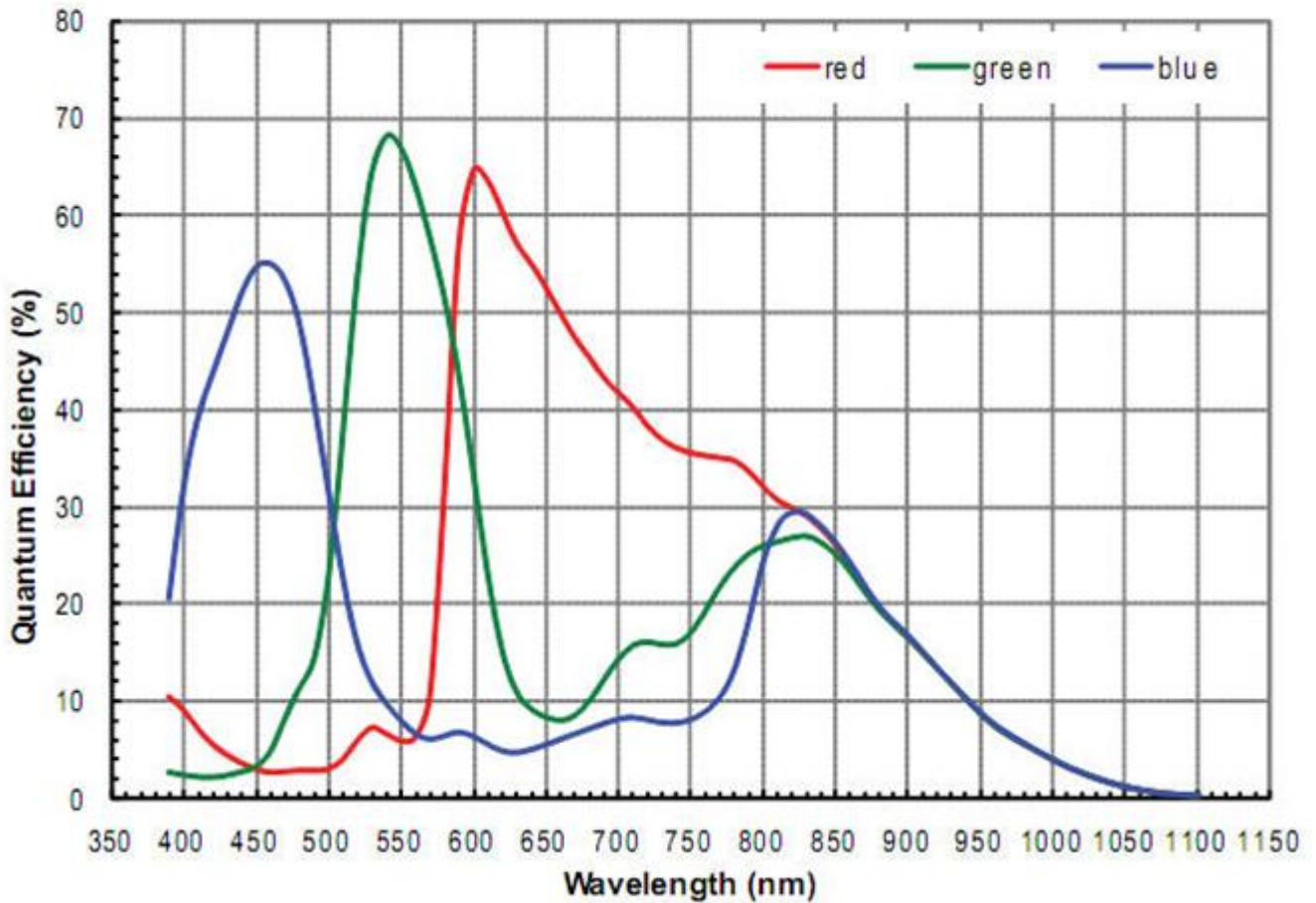
Astrophotography Performance

ASI120S is a super fast and sensitive USB3.0 camera, with up to 60FPS under 1280X960 full resolution. It has a peak QE of 75%, beyond ICX618 and with no FPN (Fixed Pattern Noise). Long exposure times are supported up to 1000 seconds. Fully compatible with USB 2.0 USB Host.

Read noise, full well, gain and dynamic range for ASI120



Quantum Efficiency – Color Sensor



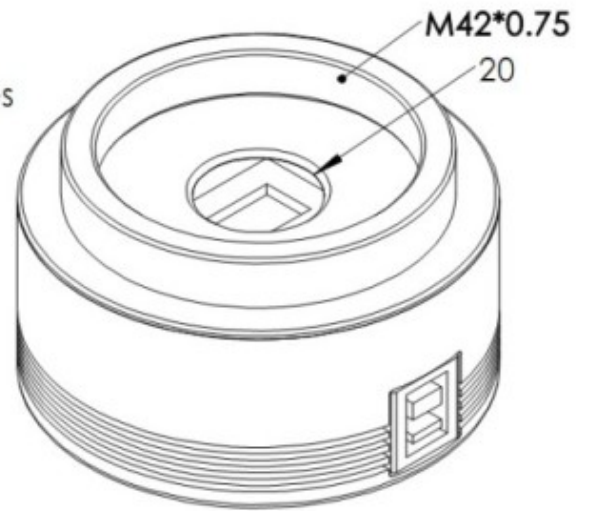
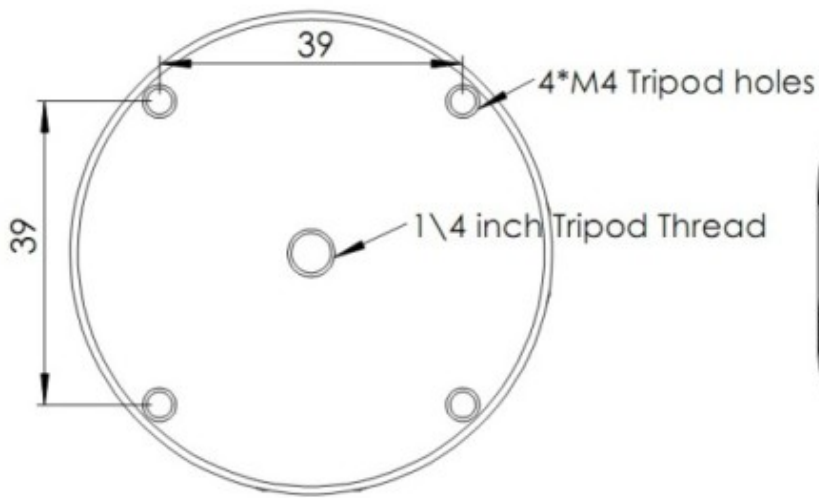
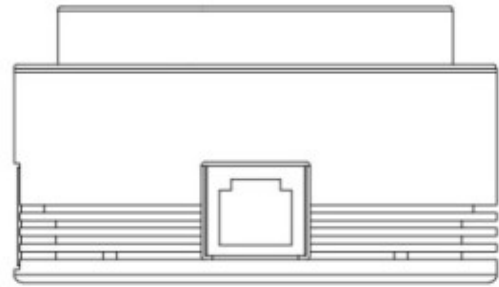
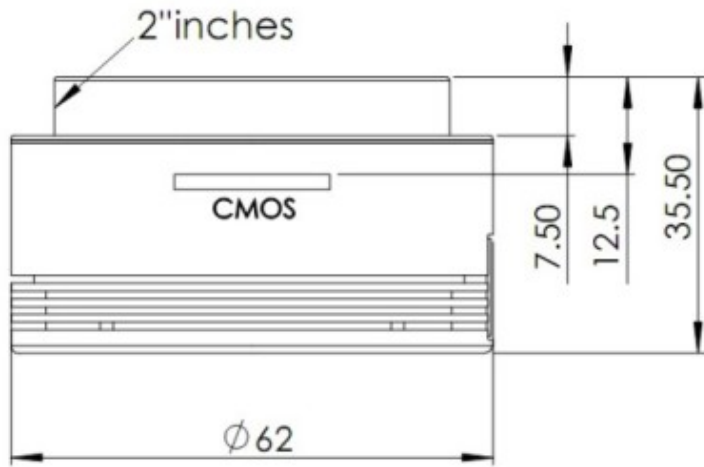
USB 3.0 Port & ST4 Port

USB 3.0 Port: can provide 5Gb bandwidth to let ASI120S run at 60 fps (10bit, high speed mode) at full resolution (1.2Mega).

ST4 Port: can be used connect with auto guider port of mount, for guiding.

Mechanical Diagram

Unit:mm



Specifications

Camera technical details

Sensor: 1/3" CMOS AR0130CS(Color) / MT9M034(mono)
Resolution: 1.2Mega Pixels 1280×960
Pixel Size: 3.75µm
Exposure Range: 64µs-1000s
ROI: Supported
Interface: USB3.0/USB2.0
Bit rate: 12bit output(12bit ADC)
Adaptor: 2" / 1.25" / M42X0.75
Dimension: φ62mm X 28mm
Weight: 100g
Working Temperature: -5°C—45°C
Storage Temperature: -20°C—60°C
Working Relative Humidity: 20%—80%
Storage Relative Humidity: 20%—95%

Supported resolution

Binning 1×1:
1280X960@60FPS
1280X720@98FPS
1280X600@116FPS
1280X400@168FPS
960X960@74FPS
1024X768@90FPS
1024X400@160FPS
800X800@85FPS
800X640@106FPS
800X480@141FPS
640X480@133FPS
512X440@145FPS
512X400@158FPS
480X320@196FPS
320X240@254FPS

Binning 2×2:
640X480@45FPS

*Tested under USB3.0 port without overclocking. There is an option to overclock 30% of the current fps