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Opening Hours

10am-5:30pm Mon-Fri
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ZWO 585MC Astronomy Camera

AUD $649.00

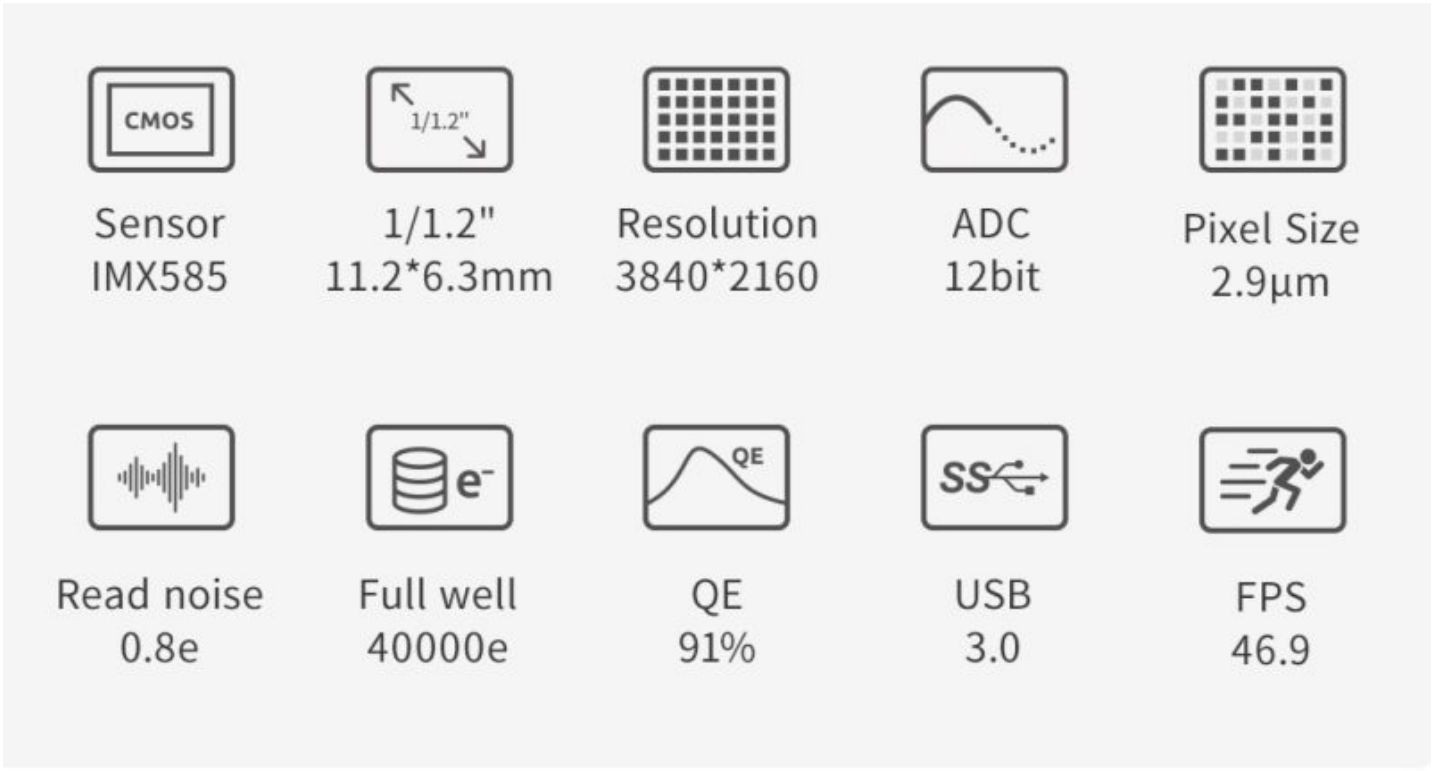
Product Images

Short Description

Astronomical OSC camera with large full well capacity ASI585MC

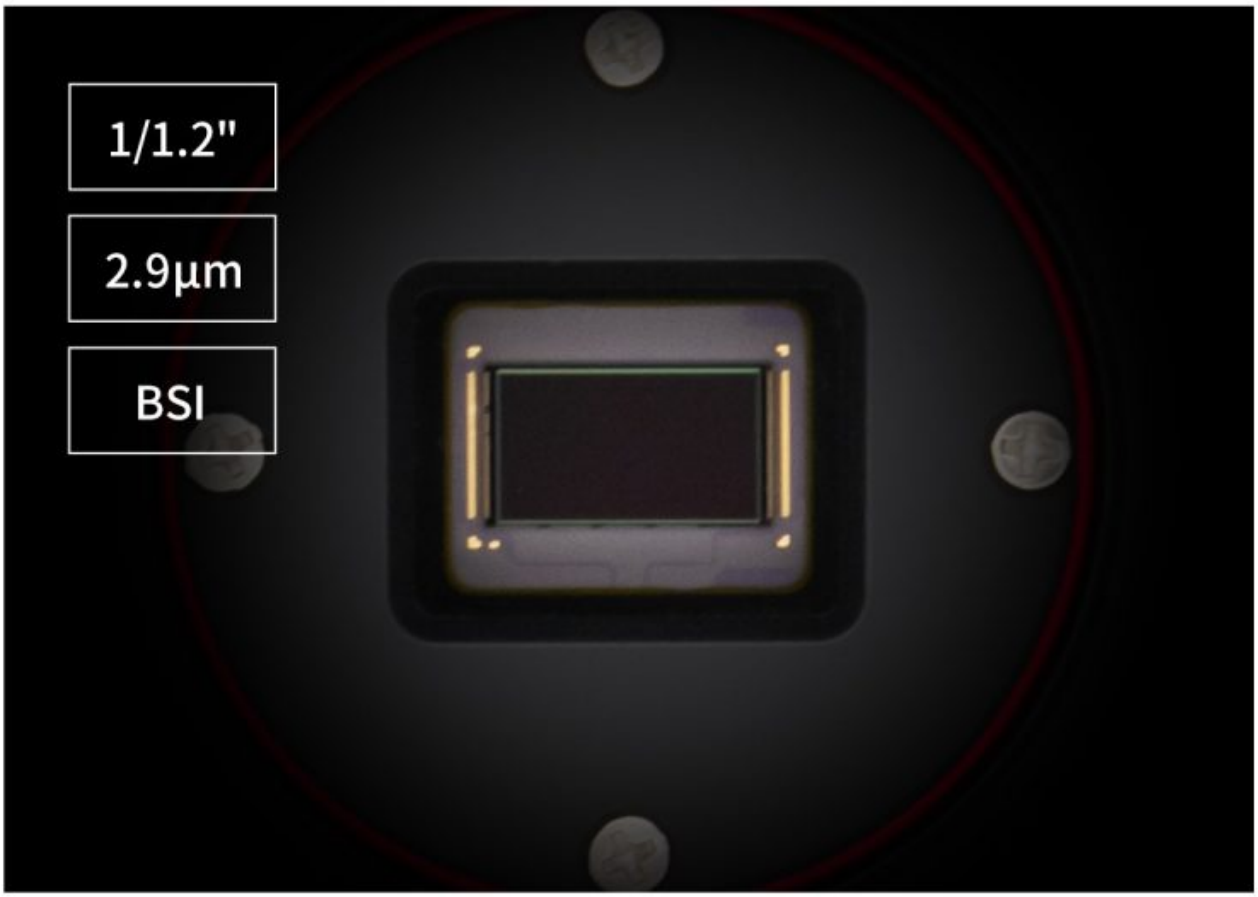
Description

ASI585MC adopts Sony IMX585 CMOS sensor. As one of ZWO’s latest OSC planetary cameras, it features a large sensor format of 1/1.2″, a high resolution of 3840*2160, and a surprisingly amazing characteristic of ZERO AMP GLOW! The pixel size is 2.9um*2.9um. In 12-bit mode, it produces 46.9 FPS with super low readout noise!



8.29MP Senor

ASI585MC has the same pixel size of the ASI462MC at 2.9um, but its resolution is 4 times that of ASI462MC, which is a total of 8.29 megapixels. The sensor size is 11.13*6.26mm, and the diagonal length is 12.84mm. The 1/1.2″ large sensor format makes it very suitable for solar and lunar imaging. It can also be used as an all-sky camera or live camera to observe and monitor cloud cover, rain, meteors and other weather conditions.



STARVIS 2

ASI585MC adopts the Latest SONY IMX585 sensor with STARVIS 2 technology. Featuring zero amp glow, lower dark current noise, and 3 times larger full well capacity, this camera is regarded as an upgrade of ASI485MC. It is also more sensitive to red, green and near infrared (NIR) lights compared to ASI485MC, especially in >850nm wavelength range, its light sensitivity is 1.5 times greater than ASI485MC.

Upgraded Model

The ASI585MC is an upgraded camera to the ASI485MC. Compared with the ASI485MC, it has the characteristics of a larger full well depth and no amp glow.

Model	ASI585MC	ASI485MC (Discontinued)
Color or mono	Color	Color
With or Without glow	without	With
Format	1/1.2"	1/1.2"
Resolution	3840*2160	3840*2160
Pixel Size	2.9μm	2.9μm
Readout Noise	0.8-12e (2.4e@15db gain)	0.6-6.45e (0.7e@46db gain)
QE Peak	91%	85%
Full Well	40ke	13ke
ADC	12bit	12bit
Back Focus	6.5mm/17.5mm	6.5mm/17.5mm
MAX FPS	46.9fps	39fps
Diagonal	12.84mm	12.86mm

Model

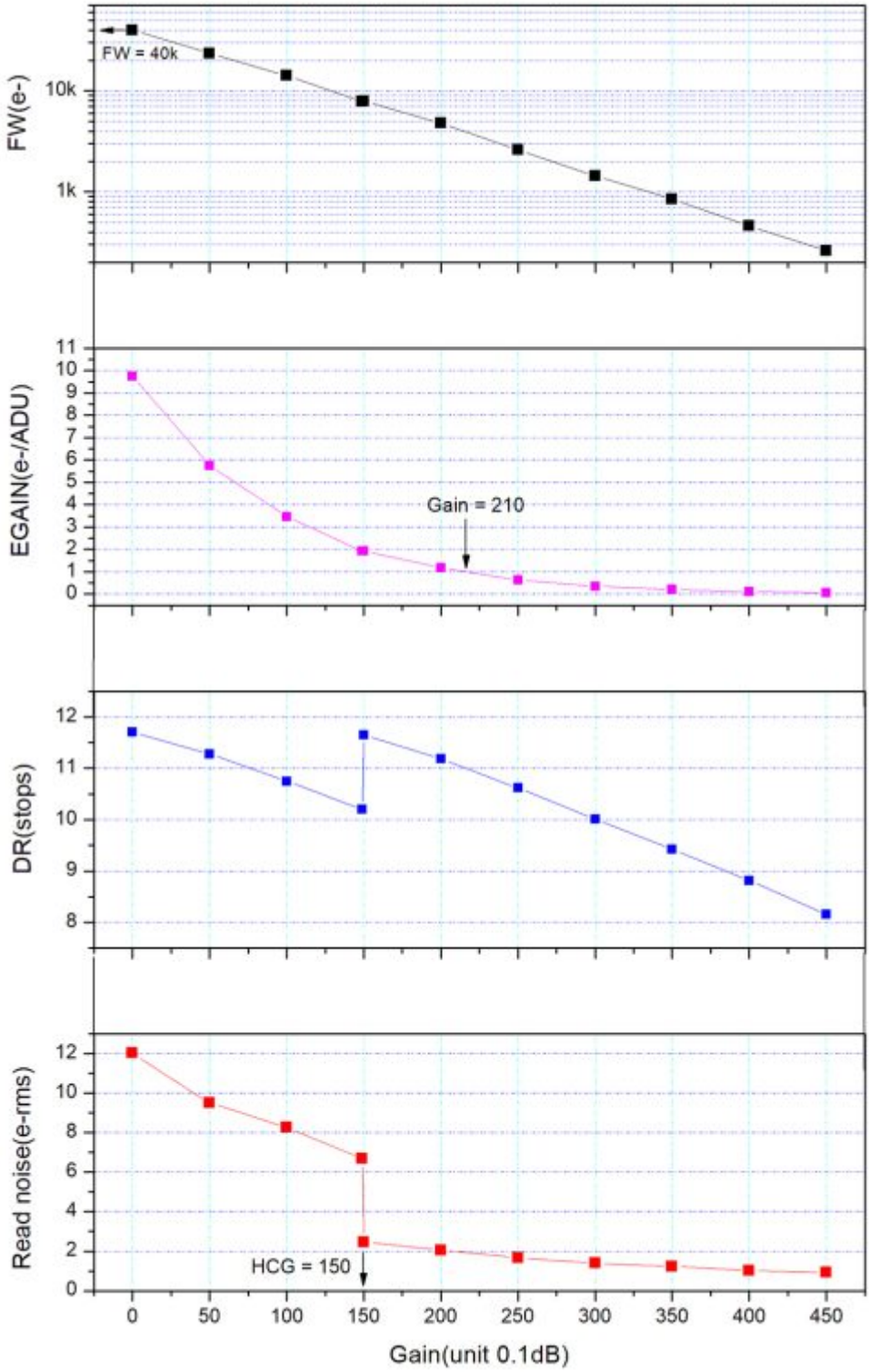
Large Full Well Depth

Thanks to the back-illuminated sensor structure and advanced pixel technology, the camera has very low readout noise and a large full well depth. Especially in low light conditions, the camera performs excellent, capturing very clear images of celestial objects.

Camera Curve

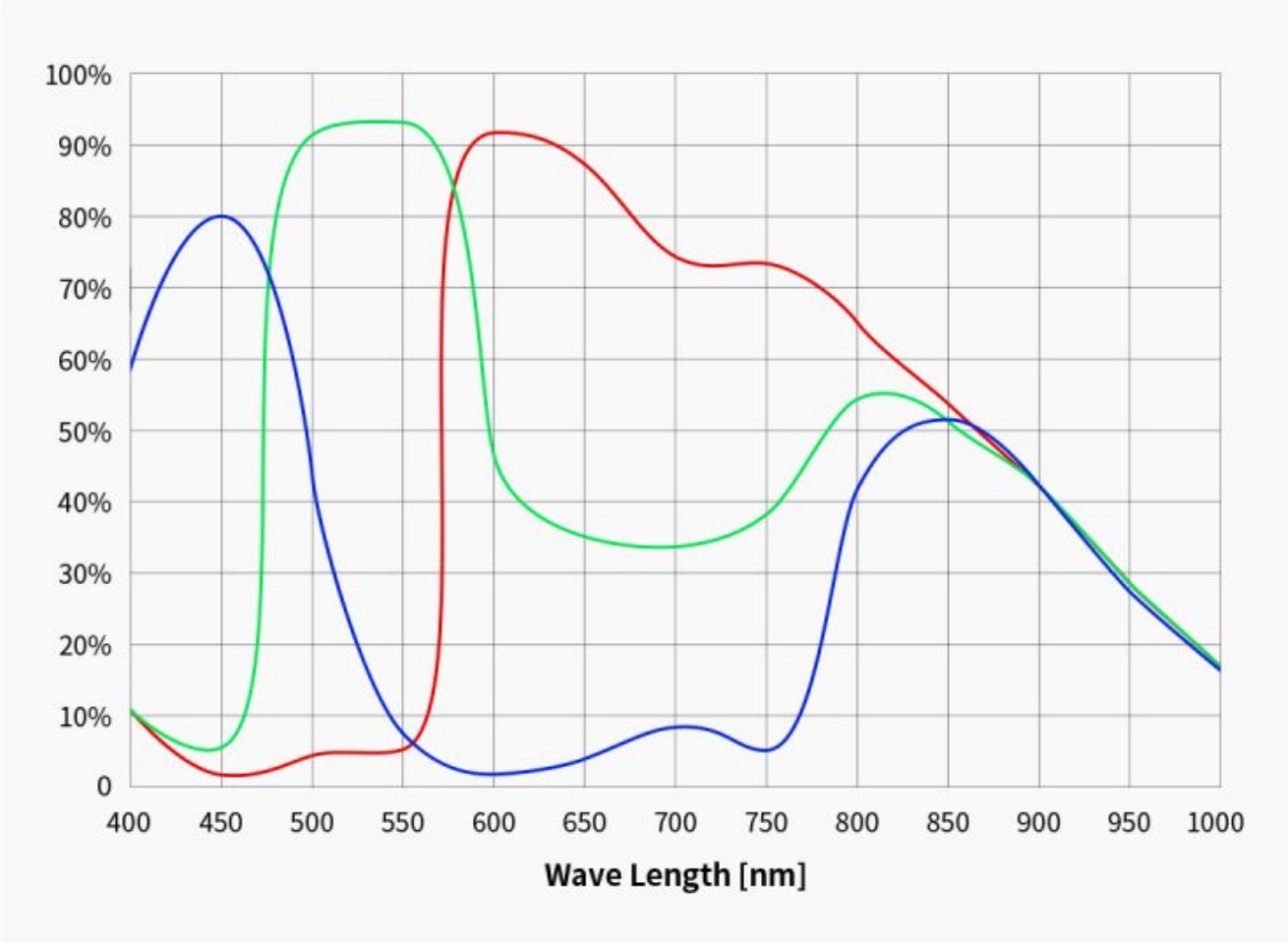
Low read noise, high dynamic range

The camera has a built-in HCG mode, which can effectively reduce readout noise at high gain and allow the camera to m


FW(e-)
FW = 40k
10k
1k
EGAIN(e-/ADU)
Gain = 210
DR(stops)
Read noise(e-rms)
HCG = 150
Gain(unit 0.1dB)

Quantum Efficiency

After our calculation, the peak quantum efficiency of ASI585MC is 91%.



What's In the Box?

Camera boby

1.25" Cover

ST4 Cable

2" Cover

Quick guide

USB 3.0 Cable
(2m)

1.25" Nosepiece

Structural Dimension Diagram

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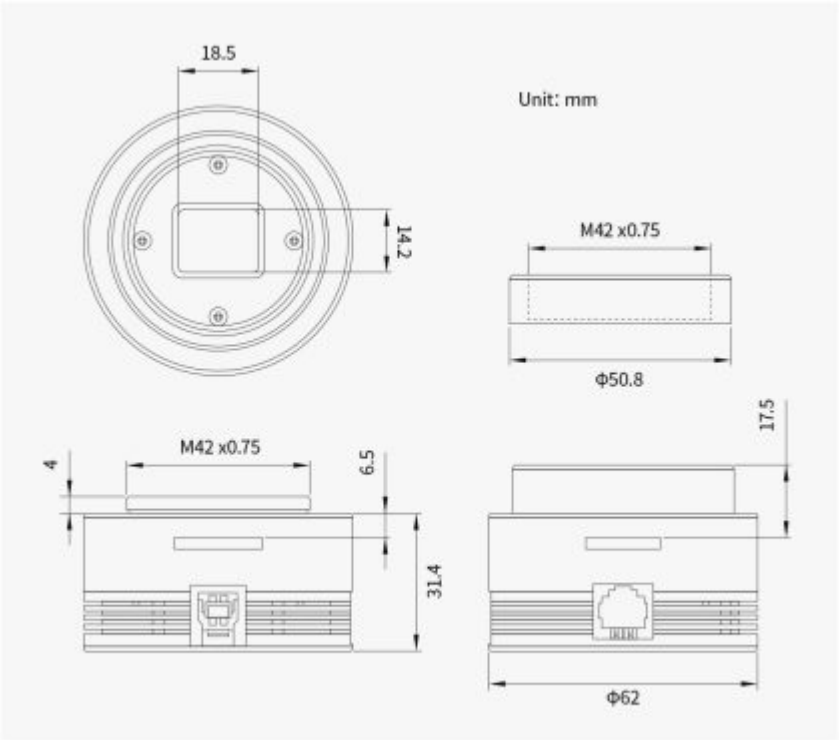

Additional Information

Specifications	No