



Sirius Optics  
Unit 1  
26 Darnick Street  
Underwood, Qld 4119

Opening Hours  
10am-5:30pm Mon-Fri  
9am-2pm Sat

Phone: 07 3423 2355  
[www.sirius-optics.com.au](http://www.sirius-optics.com.au)

## ZWO ASI 485MC USB3.0 Colour Camera

**AUD**  
**\$629.00**

### Product Images



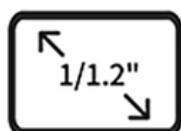
### Short Description

The ASI485MC is one of the latest OSC planetary cameras released by ZWO

## Description



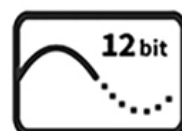
Sensor  
IMX485



1/1.2\"  
11.1\*6.2mm



Resolution  
3840\*2160



ADC  
12bit



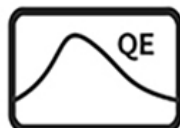
Read noise  
0.7e-6.4e



FPS  
39



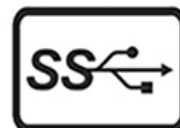
Full Well  
13ke



QE  
85%



Pixel Size  
2.9µm

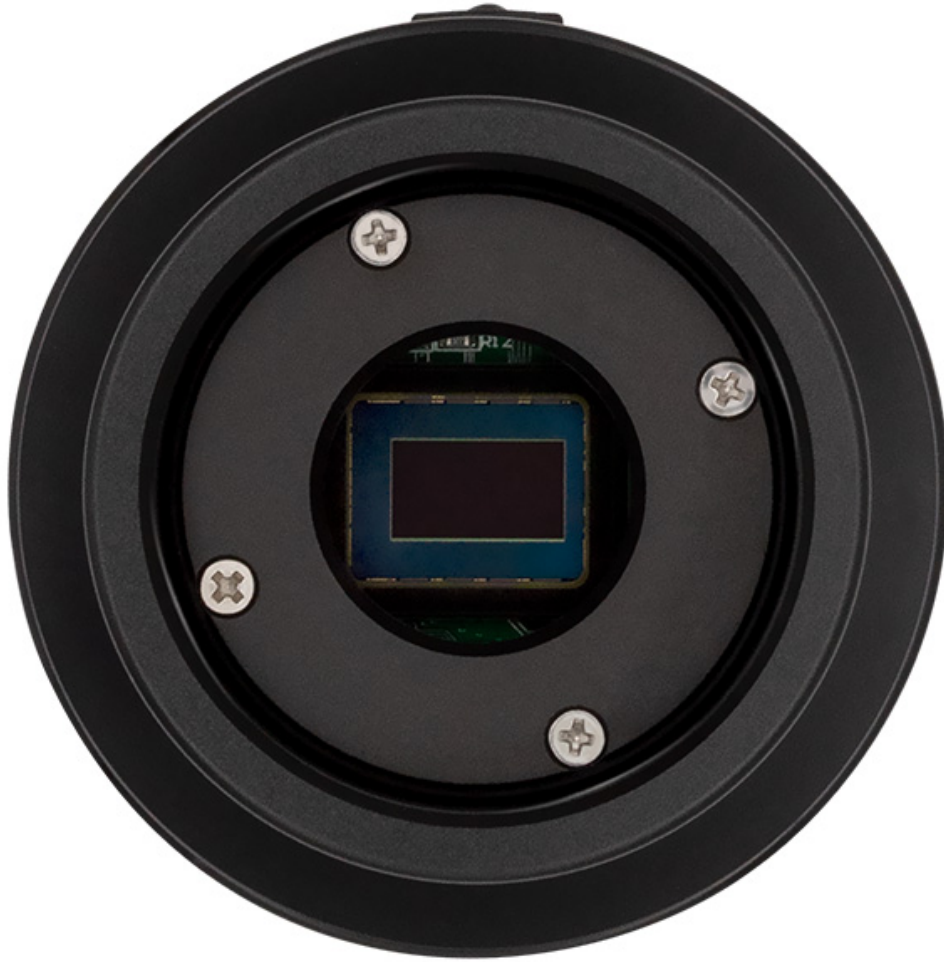


USB  
3.0

The ASI485MC is one of the latest OSC planetary cameras released by ZWO in 2021. Packed with Sony sensor IMX485, this camera has some very great highlights, including a large resolution of 3840\*2160, compatible with USB 3.0 interface, large full-well depth of 13ke-, extremely high sensitivity and super low read out noise, etc.

### 1/1.2" 8MP backlit sensor

ASI485MC shares the same pixel size of 2.9µm with ASI462MC, but when it comes to resolution, ASI485MC is 4 times bigger than ASI462MC. The total number of pixels is 8.28 million. The sensor length and width are 11.13mm\*6.26mm. The diagonal is 12.86mm.



## Extremely high sensitivity

One benefit of the back-illuminated CMOS structure is the reduced readout noise and improved sensitivity. Sony particularly uses the STARVIS™ technology on the IMX485 sensor, bringing it excellent visibility at low illumination. You may get very high light efficiency when taking astrophotos, also realize high picture quality in the visible-light and near infrared light regions.

This, combined with the large FOV provided by the big sensor format, makes ASI485MC not only ideal for solar, lunar and planetary imaging, also can be used as the live streaming camera, or all-sky camera to observe or monitor weather condition.



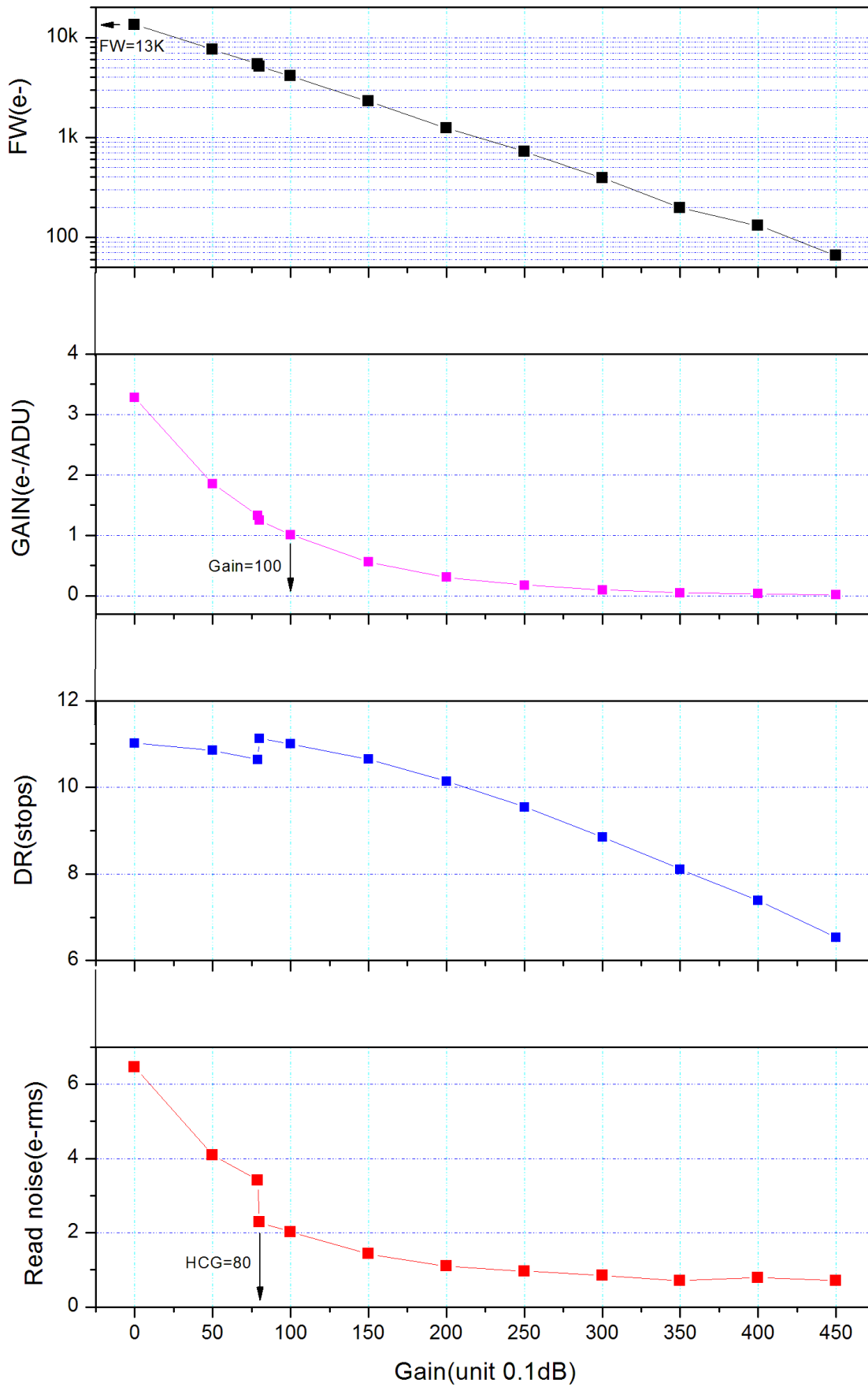




## HCG Mode

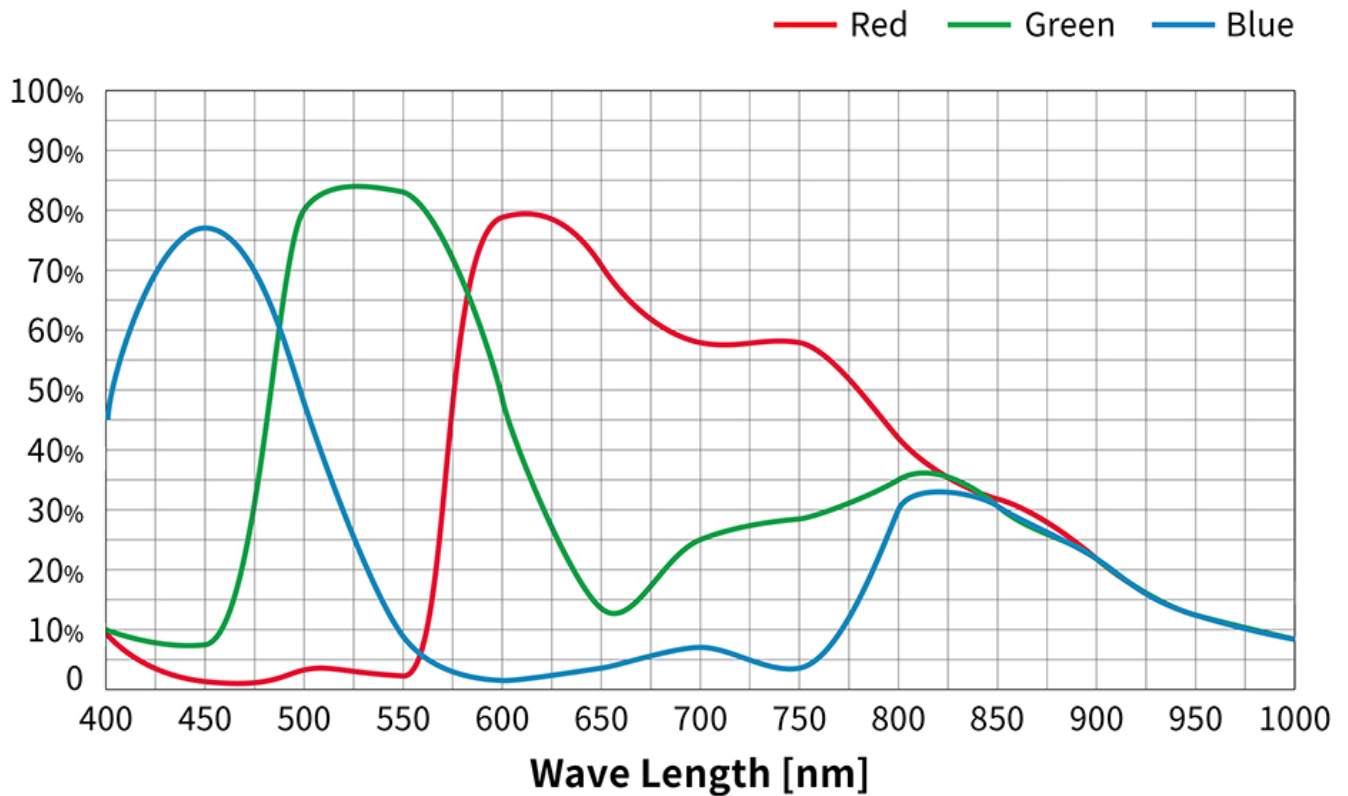
ASI485MC has a built-in HCG mode which can effectively reduce the readout noise at high gain and keep the same wide dynamic range as you would expect at low gain. When the gain is 80, the HCG mode will automatically turn on. The read out noise fall off a cliff while the dynamic range still can reach close to 11 stops. The minimum read noise is 0.7 e.

# Read noise, full well, gain and dynamic range for ASI485



## QE curve

We assume the QE peak value of ASI485MC is 85% at 530nm.



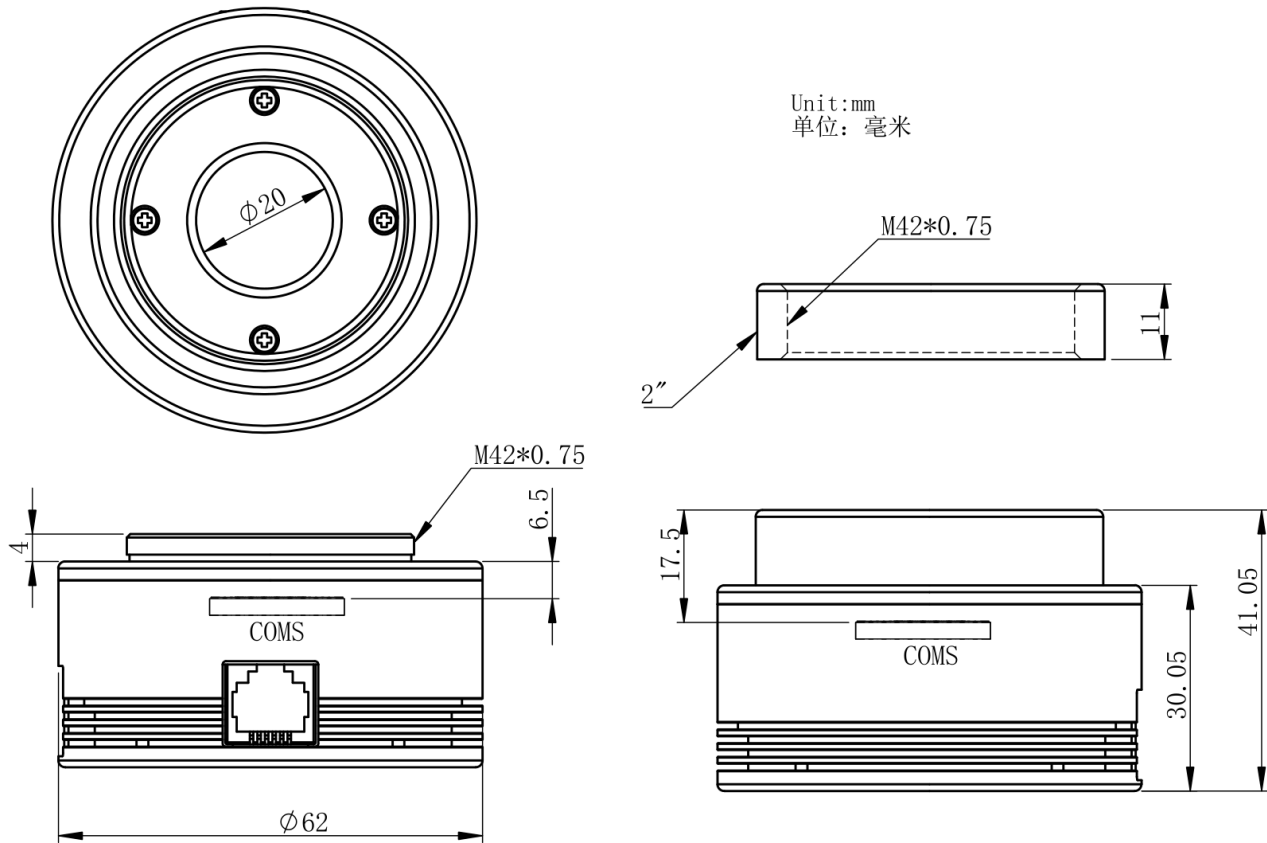
## USB 3.0 Port & ST4 Port

**USB 3.0 Port:** Like other ASI cameras, the ASI485MC is powered and controlled via USB 3.0. It provides 5Gb bandwidth to let the camera run at 39fps (10bit, high speed mode) or 27.2fps (12bit, normal mode) at full resolution(8.2Mega).

**ST4 Port:** Can be used to connect with auto guide port of mount for guiding.

## Mechanical Diagram





## Additional Information

### Specifications

## Camera technical details

Sensor: 1/1.2" CMOS Sony-IMX485  
 Bayer Pattern:R Gr Gb B  
 QE peak: 85%@530nm  
 Back focus length: 17.5mm  
 Max fps: 39fps  
 Full well: 13K e  
 Shutter: Rolling shutter  
 Resolution: 8.29Mega Pixel,3840\*2160  
 Pixel Size: 2.9μm  
 Data Format: RAW8、RAW16、RGB24、Mono8  
 Exposure Range: 32μs~2000s  
 Interface: USB3.0  
 Protect window: AR  
 ADC: 12bit  
 Dimension: φ78mmX73.5mm  
 Weight: 0.133KG  
 Working Temperature: -5°C~50°C  
 Storage Temperature: -10°C~60°C  
 Working Relative Humidity: 0-80%  
 Supported OS: WIN7/8/10 32&64、Linux、Mac