

Sensor:	Sony CMOS IMX455
Diagonal	43.3 mm
Sensor size:	35.976 mm x 23.989 mm
Resolution	61 mega pixels, 9568 x 6380
Pixel size:	3.76 μm x 3.76 μm
Spectral range	380-690nm (with IR-cut Filter)
ADC:	16 bit native
	- Two-stage TE-cooling System 30-
Cooling:	- 35 K below ambient under short e
	- 35 K under long exposure time (>
	- integrated heating against condensa
Heating	- the sensor chamber is hermetically s
	- there are desiccants in the sensor ch
Sensitivity	The sensor sensitivity of SkyEye62 a testing standard lens with CM500 F8.0. If the image is measured at F current value.
Dark signal	0.039mv with 1/30s
Binning	1x1, 2x2, 3x3
	16 bit
	3.1 FPS @ 9568*6380
Max FPS at Resolution (USB 3.0)	9.4 FPS @ 4784*3190

27.8 FPS @ 3184*2124

16 bit

Max FPS at Resolution (Low Noise, USB 3.0,) 1.9 FPS @ 9568*6380 (Low Noise Mode is only available in All Pixel Readout Mode)

16 bit

0.4 FPS @ 9568*6380

Max FPS at Resolution (USB 2.0) 1.5 FPS @ 4784*3190

3.3 FPS @ 3184*2124

16 bit

Max FPS at Resolution (Low Noise, USB 2.0) 0.3 FPS @ 9568*6380 (Low Noise Mode is only available in All Pixel Readout Mode)

Shutter-Typ	Rolling Shutter
Exposure	0.1ms~3600s
Gain	1x - 150x
SNR	47.0 dB
Dynamic Range	85.8 dB (Low Noise Mode)
Read Noise	2.58 - 0.89 e-
Read Noise (Low Noise Model)	1.72 - 0.89 e-
Read Noise (LCG)	3.98 – 1.52 e-
QE Peak	>80%
Full Well	51ke- (107ke- @LCG)
ADC	16bit
DDR3 Buffer	512MB (4Gb)
Connection Port	USB3.0/USB2.0

Protect Windows	IR CUT
Spectral Range	380-690nm (with IR-cut Filter)
Capture/Control SDK	Windows/Linux/macOS/Android Mu Python, Java, DirectShow, Twain, e
Camera Dimensions	Diameter 89 * Height 103 (mm)
Camera Weight	0.718kg
Back Focus Distance	17.5mm
Cooling:	Two stage TEC Peltierelement
Effective Cooling Temp:	-30°C below ambient under short e.
Supported OS	Microsoft® Windows® XP / Vista / OSx(Mac OS X) Linux
Amp glow	no amp glow
Power:	12 V, 3 A
Telescope connection:	M54x0,75 female

-35 °C below Ambient Temperature

exposure

1s)

tion

sealed

amber

AM is 435.5mV. The sensitivity is measured with
S (t = 1.0 mm) as an IR-cut filter and image at
5.6, the result could have been 2 times of the

8 bit

6.2 FPS @ 9568*6380

18.8 FPS @ 4784*3190

55 FPS @ 3184*2124

8 bit

6.2 FPS @ 9568*6380 (Low Noise Mode is only available in All Pixel Readout Mode)

8 bit

0.7 FPS @ 9568*6380

2.9 FPS @ 4784*3190

6.6 FPS @ 3184*2124

8 bit

1.2 FPS @ 9568*6380 (Low Noise Mode is only available in All Pixel Readout Mode)

Multiple Platform SDK(Native C/C++, C#/VB.NET,
etc.)

Exposure/ -35°C under long exposure (> 1s)

7 / 8 /10 (32 & 64 bit)