



The color camera ZWO ASI 533 MC-P is a product for both experienced enthusiasts of astrophotography and for people who are taking their first steps in this fascinating field. Thanks to the high quantum efficiency and very low noise level of the Sony IMX455 sensor and the 14-bit ADC converter, this camera generates breathtaking images with unprecedented sharpness and tonal dynamics. Thanks to the use of an optical sensor built in the "back-illuminated" technology, an unprecedented sensitivity was obtained, which will allow to register a weak signal coming from even the farthest objects in the far space. This product is also free from the "Amp Glow" effect, characteristic of many CMOS sensors, which causes some parts of the image to brighten during long exposures. A two-stage cooling system based on Peltier cells is responsible for maintaining a low dark current of the matrix, even during long exposures. The most important features of the ZWO ASI 533 MC-P camera " Sony IMX533MC color matrix made in back-illuminated technology " 14-bit ADC converter ensuring high dynamic range " 256 MB of DDR3 memory acting as a buffer ensuring stable data transmission " No Amp Glow effect " very efficient, two-stage cooling system based on the Peltier module Technical parameters "

matrix: Sony IMX533MC (color) " sensor type: CMOS " matrix size: 11.3 x 11.3 mm, diagonal 15.9 mm " matrix resolution: 9 MPix, 3008 x 3008 px " single pixel size: 3.76 μ m " Bayer filter / matrix system: RGGB " capacity well of the potential: 50.0 ke " quantum efficiency in the peak: 80% " exposure time: 32 μ s - 2000 s " ROI (select area of interest): yes " shutter type: rolling shutter, electronic " back focus: 6.5 / 17.5 mm " Matrix protection glass: D32-2-AR " ADC: 14 bit " buffer size: 256 MB DDR3 " compatible operating systems: Windows, Mac OS, Linux " ports: 1x USB 3.0 (in), 2x USB 2.0 (out) " cooling system: 2-stage, Peltier cells, maximum power consumption 12V, 3A " camera power consumption: 5V, 650 mA " minimum permissible operating temperature: -5 $^{\circ}$ C " maximum permissible operating temperature: 45 $^{\circ}$ C " connector: M42x0.75 " weight: 470 g " dimensions: 78 x 73.5 mm Supported resolutions 14 bit ADC, USB 2.0 " 3008 x 3008 @ 2 fps " 1920 x 1080 @ 10 fps " 1280 x 720 @ 24 fps " 640 x 480 @ 70 fps " 320 x 240 @ 216 fps 14 bit ADC, USB 3.0 " 3008 x 3008 @ 20 fps " 1920 x 1080 @ 54 fps " 1280 x 720 @ 80 fps " 640 x 480 @ 117 fps " 320 x 240 @ 216 fps Kit components " ZWO ASI 533 MC-P camera " cover for transport and storage " toe 1.25 " " USB 3.0 cable (2 m) " USB 2.0 cable (0.5 m) " T2 intermediate ring 21 mm " intermediate ring T2-M48, 16.5 mm " M42 - M48 adapter " adapter T2 - 1.25 " Warranty 24 months