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The ZWO ASI 6200MM-PRO monochrome camera sets new directions in astrophotography. The heart of this camera is the unparalleled full-frame Sony IMX455 optical sensor with a resolution of 62 MPix (9576x6388 px). This camera is one of the first in which the CMOS matrix works with a 16-bit ADC converter. This combination results in an image with unattainable sharpness and image dynamics unattainable for other cameras, and it will not be possible to pass by indifferently. Uncompromising in every field The ASI 6200MM-PRO camera is a product where nothing has been left to chance. Thanks to the use of an optical sensor built in the "back-illuminated" technology, an unprecedented sensitivity has been obtained, thanks to which this camera will allow you to go beyond the next limits in astrophotography. The use of an extremely efficient cooling system based on the Peltier module ensures that the dark matrix current is kept at an extremely low level of $0.003 \text{ e} / \text{s} / \text{pix}$ for the temperature of zero degrees Celsius, which in practice means that for a 5-minute exposure, the noise generated by the IMX455 matrix is negligibly small! This product is also free from the "Amp glow" effect characteristic of many CMOS sensors. In order to prevent water vapor condensation, the camera is

equipped with a 5 W polyamide heater surrounding the matrix protective window. The whole device is closed in a very light and compact casing. The most important features of the ASI 6200MM-Pro camera " Sony IMX455 full-frame matrix made in back-illuminated technology " 16 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 " polyamide heater preventing condensation on the matrix window Technical parameters " matrix: Sony IMX455 (monochrome) " sensor type: CMOS " matrix size: 36x24 mm (full frame), 43.3 mm diagonal " matrix resolution: 62 MPix, 9576x6388 px " single pixel size: 3.76 μm " capacity well of the potential: 50 ke " quantum efficiency in the peak:> 80% " exposure time: 32 μs - 2000 s " ROI (select area of interest): possible " shutter type: rolling shutter, electronic " back focus: 17.5 mm " glass to protect the matrix: D60-AR Coating coated " 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 $^{\circ}\text{C}$ " maximum permissible operating temperature: 45 $^{\circ}\text{C}$ " connector: M42x0.75 " weight: 700 g " dimensions: 90 x 97 mm Supported resolutions 16 bit ADC " 9576 x 6388 @ 3.19fps " 7680 x 4800 @ 5.29fps " 6400 x 4096 @ 7.44fps " 4096 x 2160 @ 14.35fps " 3840 x 2160 @ 14.35fps " 1920 x 1080 @ 28.04fps " 1280 x 720 @ 41.12fps " 640 x 480 @ 59.67fps " 320 x 240 @ 108.72fps Kit components " ASI 6200MM-PRO camera " case " USB 3.0 cable (2m) " 2x USB 2.0 cable " T2 intermediate ring, 21 mm " intermediate ring T2-M48, 16.5 mm " intermediate ring M54-M48, 21 mm " M42-M48 adapter " end cap 2 " " Allen key Warranty 24 months