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ASI 290 MM from ZWO is an uncooled monochrome camera with versatile use in astrophotography. Usage Moon photography - thanks to the large matrix allows you to portray large areas astrophotography of the Sun (after applying the appropriate filtration) Deep Sky objects - the CMOS sensor offers a low noise level can be used for guiding (has a ST4 port) all-sky camera thanks to the lens $f = 2.5 \text{ mm} / 150^\circ$ Basic features very low reading noise with very high sensitivity fast protected matrix with AR layers - transmits the IR band (use IR-cut filter if you want to block infrared) a wide range of exposure times, up to 2000 seconds in a set with a wide $2.5 \text{ mm} / 150^\circ$ lens - for example for meteors or time-laps free software from the manufacturer allows automatic stacking and camera operation (FireCapture software) - ideal for photographing nebular objects Technical parameters matrix: $1 / 2.8$ "CMOS IMX290 / IMX291 resolution: 2.1 Mpix, 1936×1096 single pixel size: $2.9 \text{ }\mu\text{m}$ range of exposure times: $32 \text{ }\mu\text{s} - 2000 \text{ s}$ (selection of the area of interest): yes ST4 guiding port: yes depth of the die seating: 12.5 mm shutter type:

http://teleskopy.pl/product_info.php?products_id=0 6 December, 2021, 22:44

rolling shutter matrix protection: yes, with anti-reflective layers compatibility with operating systems: Mac, Windows, Linux transmission connection: USB 2.0, USB 3.0 bit rate: 12 bit connection to the telescope: 2 ", 1.25" (toe), T2 dimensions: ? 62 mm x 36 mm weight: 120 g (without lens) operating temperature range: -5 ° - + 45 ° C storage temperature range: -20 ° - + 60 ° C range of relative humidity: 20% - 80% range of relative humidity of storage: 20% - 95% supported resolutions: - USB2.0 (MAX FPS) 1936 x 1096: 20.4, 1280 x 960: 35.3, 640 x 480: 141.5, 320 x 240: 355.9, 2X 2 Bi: 968 x 548: 20.4. - USB3.0 MAX FPS (12bit / 10bit) 1936 x 1096: 82.2 / 170, 1280 x 960: 93.6 / 193.9, 640 x 480: 184 / 381.2, 320 x 240: 355.9 / 737.5, 2X2Bin: 968 x 548: 82,2 / 170. The user has the option of defining the resolution yourself. Elements of the set 1st camera 2. ST4 guiding wire, 2 meters long 3. cap 4. T2 / 1.25 "nosepiece 5. USB 3.0 cable length 2 meters 6. drivers and additional software (Mac, PC and Linux) External links Control software, drivers and software for photo material processing can be downloaded for free from the manufacturer's website. Original manufacturer's instructions are also available. INSTRUCTIONS [ENG, LINK] CONTROLLERS [LINK] Warranty 24 months