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The Cassegrain telescope - considered extinct, but again comes back to the game thanks to the Taiwanese GSO factory. We hope that it will return permanently, because this construction offers a lot of unique features and we are sure that it is very worth paying attention to. â€¢ cools faster than Schmidt-Cassegrain and Maksutow-Cassegrain (similar to RC Newtons) â€¢ there is not even a residual chromatic aberration, because it is a telescope that works only on reflection, not light deflection (like RC and Newton telescopes) â€¢ has a longer focal length than a typical RC or Newtonian one, and parametrically similar to the Maksutov telescope â€¢ very compact design (similar to RC and Mak) â€¢ no lens system allows the use of the Cassegrain telescope in infrared photography â€¢ the long focal length facilitates the collimation procedure, which is a shortcoming of RC telescopes, especially if you plan to use them as an exit telescope. In general, the Cassegrain system is - as you can read - the main mirror with the figure of a rotational and secondary paraboloids being a segment of a rotational hyperboloid. A typical drawback of these is the difficulty in making these surfaces - but this is what the GSO factory dealt with. Others include a long focal length and therefore not a large field of view - but this is often an advantage, as it eliminates flaws on the edges of the field, and at the same time gives a high scale of reproduction both in photography and in observations. Purpose : visual observations, planetary astrophotography, compact astrophotography with high-sensitivity cameras, infrared photography. Technical specifications â€¢ construction: the classic Cassegrain telescope â€¢ active diameter: 8 "/ 203 mm â€¢ focal length: 2436 mm â€¢ lighted up: f / 12 â€¢ resolving power: 0.59 " â€¢ star range for visual observations: 13.6 mag â€¢ glass: quartz in the primary and secondary mirror â€¢ reflectance: 99% for each of the mirrors â€¢ obstruction (linear, relative to diameter): 33% â€¢ extractor: 2 "with 1.25" reduction, with a 10: 1 microfocus box â€¢ two extension extensions on the M90 thread (50 mm optical length each) included â€¢ back focus: 150 mm from the end of the 2 "lift â€¢ tube diameter: 230 mm â€¢ finder foot: yes, in Vixen standard â€¢ dovetail: yes, in the Vixen standard â€¢ length: approx. 620 mm â€¢ weight: 7.5 kg Warranty 24 months

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Below: test pictures on the Moon; setup: main telescope: GSO Cassegrain 8", camera: ZWO ASI 178 MM, filter: Baader Planetarium Solar Continuum (sic!); mount: EQ6-R

/ pics taken in Jan 2021; click to enlarge /

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