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Messier AR-152S on the SynScan HEQ5 PRO mount combines the fantastic 152mm quality of the Petzwala lens (four-element neoachromat) and the perfect German assembly with the GOTO system. A great set for advanced astrophotography! Optical tube The Messier AR-152S optical tube is a high-quality achromat refractor dedicated to advanced visual observations and astrophotography. It is equipped with a lens with a diameter of 152 mm and a focal length of 760 mm made of 4 lenses (Petzwala type construction). Thanks to this, despite the large light, the telescope is characterized by a large flat field of view. In the visual observations of the planets and the Moon it works perfectly, showing many details of the surface of the Solar System objects. Among the deep sky objects, you can see hundreds of nebulae from the Messier and NGC catalogs. The optics are fully covered with anti-reflective layers (MC). The telescope is equipped with a new Hexfoc spectacle lift. The geometrical structure of the extractor is based on a hexagonal profile corresponding to a diameter of 2.5 inches. As a result, a high degree of stiffness was not found in the lifts from this price range. The extractor can be extended with a 10: 1 precision focusing module. As a result, even relatively heavy apparatus and accessories can be operated without deflections and loss of axiality. In addition, the significant diameter allows organically vignetting. This telescope is an excellent choice for advanced sky observers. Characteristics Optical system â€¢ high efficiency of the system and durability of the optics â€¢ durability and timeless appearance of the tube Fixing the optical system â€¢ metal fixing rings of the tube â€¢ dovetail equipped with a stainless steel rail to ensure secure mounting of the tube in the assembly head and increase the durability of dovetail â€¢ handles for easy carrying of the tube â€¢ Piggyback photo adapter for attaching the camera Eyeglass extractor â€¢ 2.5 "/ 2" pull out equipped with a clamping ring with a hexagonal sleeve â€¢ reduction of 2 "to 1.25" equipped with clamping ring and M42x0.75 (T2) thread â€¢ millimeter scale for easier focusing of images â€¢ high precision of the focus knob Equipment â€¢ SPL 26 mm / 1.25 "eyepiece â€¢ 8x50 mm finder with a cross â€¢ connector / angled mirror 90 ° 1,25 " Assembly Sky-Watcher HEQ5 SynScan The Sky-Watcher HEQ-5 Pro SynScan paralormal assembly was designed for users who need both the high stability needed for amateur astrophotography and advanced visual observations, while providing relatively small weight and mounting size. The assembly was equipped with two-axis drives, the GOTO SynScan computer system, the polar field scope, solid locking clamps in the axis of right ascension and declination, the counterbalance rod built into the head (pull-out). The tripod is based on 1.75 "legs and offers maximum stability of the whole set.The maximum lifting capacity is about 16 kg, with a mass of 19 kg. Mounting the optical tube for mounting is possible with the standard dovetail mounting rail (included) female dovetail, in the pictures a male dovetail is attached to a tripod - the dovetail is equipped with optical tubes, it is not equipped with the assembly). The GoTo SynScan remote control is a full and extended version that allows tracking and finding objects in the sky. The SynScan remote control provides three tracking speeds: stellar, lunar, solar objects in Dual Axis (RA) modes, RA (RA axis). The following alignment procedures are available: One-star Alignment, Two-star Alignment, Three-star Alignment. The database contains 25 definable objects by the user, as well as a full database of Messier, NGC and IC objects (a total of 13436 objects). The pilot has also been programmed to easily find planets or the moon. Among its advanced features, it is worth paying attention to the mode of minimizing vibrations during long exposure shooting and software error correction periodic (PEC) as well as PC ports to control the telescope using a computer (RS-232 port) and Auto-Guide to precise alignment during photography with a tracking camera. OFFERED TELESCOPIC LANDS TO START OBSERVATIONS IN THE FIRST FALLING NIGHT - INCLUDES ALL NECESSARY ACCESSORIES Technical parameters of the optical tube â€¢ Optical system: 4-lens achromatic refractor (Petzwal) â€¢ Lens diameter: 152 mm â€¢ Focal length of the lens: 760 mm â€¢ Lighted: 1/5 â€¢ Switching capacity: 0.92 " â€¢ Theoretical range: 13,0mag â€¢ Maximum useful magnification 300x â€¢ Maximum length of the extractor (extended): 4.5 cm â€¢ Ringer outer diameter: 21 cm â€¢ Diameter of the tube: 15.9 cm â€¢ Length of optical tube (with diffuser): 112.5 cm â€¢ Roughreader: removable, tube length after removing the diffuser approx. 90 cm â€¢ Weight: 9.5 kg (tube + diffuser + dovetail clamp, without eyepiece, without an eyepiece, without eyepiece) Technical parameters of assembly â€¢ power supply: 12 VDC 2Amp â€¢ drive type: 1.8 ° stepper â€¢ resolution: 0.144 of a second arc â€¢ travel speeds: 2X, 8X, 16X, 32X, 64X, 400X, 500X, 600X, 800X Gear Ratio: 705 â€¢ Tracking speed: star, moon, solar â€¢ Dual Axis tracking mode (biaxial), RA (right ascension) â€¢ alignment procedures: One-star Alignment, Two-star Alignment, Three-star Alignment (ie the procedure for setting one, two or three stars) â€¢ database: 25 definable objects by the user, full database of Messier, NGC and IC objects (total of 13436 objects) â€¢ minimizing vibration when shooting with a long exposure time â€¢ programmable PE correction (periodic error) â€¢ PC port to control the telescope using a computer (RS-232 port) â€¢ Auto-Guide port for precise alignment during photography using a professional camera â€¢ assembly type: parallactic German â€¢ assembly of the optical tube: clamps (rings) â€¢ microcaps: RA & Dec (controlled by the drive) â€¢ tripod: 1.75 "steel â€¢ tripod height: 85-147 cm â€¢ tripod weight: 7.5 kg â€¢ Counterbalance rod diameter: 1.8 cm â€¢ material for the counterbalance rod: stainless steel â€¢ assembly weight without counterweights: 9 kg â€¢ assembly weight with counterweights: 19 kg â€¢ mounting height: 41 cm â€¢ counterweight: 2 x 5.1 kg â€¢ maximum load: approx. 16 kg Usage Moon the planet star clusters nebulae PC control Warranty 2 years Assembly photos of SynScan HEQ5 Warning! This device focuses a lot of light. Looking directly at the sun through this device can result in partial or complete loss of vision. For the observation of the Sun, we recommend the safest method of spectacle projection, that is, projecting the image of the target of our day star on a piece of paper. ADDITIONAL MATERIALS READ : A SHORT OPTICAL CLEANER GUIDE <img src="https://teleskopy.pl/pdf/tis/icon_download.gif" [PDF] READ TO: HOW TO CONNECT COMPACT WITH TELESCOPIC <img src="https://teleskopy.pl/pdf/tis/icon_download.gif" [PDF] READ TO: HOW TO JOIN THE DIGITAL MALE WITH A TELESCOPIC <img src="https://teleskopy.pl/pdf/tis/icon_download.gif" [PDF]