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Orion SkyQuest XX12g GoTo Truss - a large Newton with a diameter of 12 inches (305 mm) with a GOTO system with a base of over 42,000 objects, easy to transport even in a small car - a telescope for many years of advanced observation - a very large mirror with huge observation possibilities - special mirror coverage with a reflection coefficient of 94% - high carrying capacity: despite the large size, both the tube and assembly can be divided into elements that fit in any typical car - without the need for tools - the encoder system allows you to manually move the telescope without losing the telescope's orientation relative to the stars. The telescope is equipped with the SynScan AZ driver allowing to set the telescope to any side of the sky in an extremely simple way and automatically search for objects from the database built into the remote control. The user-friendly menu allows you to quickly select one of the 4,2900 objects stored in the system's memory, and after selecting the guidance system will set the selected object in the field of view of the telescope. Thanks to the use of special encoders, it is possible to manually rotate the telescope without the need to reset the GOTO system. The telescope is a great combination of the advantages of large Dobson with the convenience of the GOTO telescope. Observations of the telescope. A telescope with a diameter of the main mirror equal to 12 inches (more than 30 cm) is an instrument with very large observation possibilities, especially under dark, rural skies. During observation, we can count among others on very successful observations of the following objects: - craters on the moon - countless number of formations, excellent plasticity around the terminator - Mercury's and Venus's phases - in the case of the latter one can be tempted to observe the delicate formation of its atmosphere - ice caps on Mars are very visible (it is worth buying red, orange, yellow filters) - stripes in the atmosphere of Jupiter with their structure, both "tropical" and circumpolar, the Great Red Spot, four Jovian moons, the shadows of moons on the surface of the Jupiter's shield - Saturn ring with Cassini break and Encke break, belts - Uranus and Neptune shields - many asteroids, including the lightest Ceres and Westa - comets - ice lumps traversed by the Solar System - hundreds of double stars, multiple stars and variable stars - several thousand Deep Sky objects, including all from the Messier catalog, as well as the majority of NGC, IC and the Caldwell catalog; open clusters will be visible, such as Crib in Raku, hi chi in Perseus or Gromada Ptolemy in Skorpion, globular clusters (M13 broken up to 1/2 diameter on single stars, or M53 in Barkniki's Warkocz), gas and dust nebulae (perfectly visible structure M42 in Orion, North America in Cygnus), galaxies (M31 in Andromeda with two satellite galaxies, i.e. M32 and M110), supernova remnants (such as Veil in Łabêdziu or the famous Ring (M57)) in Lutnia) and much, much more. Usage Moon the planet star clusters nebulae planes Technical parameters - optical system: Newton's reflector - Diameter of the mirror: 305 mm - focal length: 1500 mm - light: f / 4.9 - figure of the mirror: rotating paraboloid - optics class: diffraction limited - reflectivity layer: aluminum + silicon dioxide - glass used: boro-silicon glass with low heat expansion - mirror filament: 70 mm - constriction in diameter: 23% - obstruction to the surface: 5% - resolution: 0.38 seconds of arc - minimal useful magnification: 42x - maximum useful magnification: 600x - star range: 15.1 mag - glasses in the set: DeepView 28.0 mm (2 "), Plossl 12.5 mm (1.25"); magnification respectively 54x and 120x - finder: EZ Finder II (collimator) - Extract: 2 "Crayford with planetary micro / macro gear with 1.25" adapter - assembly: Dobson with GOTO with a base of over 42,000 objects - power supply: 12 V DC, positive pole on "pin" - setting wheels: electronic, via the remote control - available ports: RS-232 - Possibility of working in GOTO or AutoTracking mode - tube material: steel - assembly material: wood - a cable for carrying out software updates in the set - the tube and the base are folded for easier transport - optical tube length: 148.1 cm - tube weight: 21.3 kg - assembly weight: 35.9 - weight of the ready-made kit for observation: 58.5 kg Elements of the set - lower section of XX12g optical tube - DeepView 28 mm, 2 "eyepiece - sleeve / adapter for 2 "glasses - 12,5 mm 1,25 "plossl eyepiece with illuminated cross - EZ Finder II collimator sight - collimation cap (pinhole collimator) - shelf for glasses - mirror cooling fan - SynScan AZ GoTo remote control - cable for SynScan remote control (spiral) - cable for connecting the motor in azimuth - 12 V DC power cord - RS-232 cable to the computer Warranty 1 year