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Synthesize DOB 12 "is a powerful telescope for an advanced sky observer - a great tool for carrying out visual observations of solar system objects and deep sky .The telescope with the diameter of the main mirror 305 mm (12 inches) is the target equipment of most astronomy lovers, with huge observability with still acceptable portability. This telescope is ideal for observing nebular objects as well as open, spherical clusters and a number of beautiful galaxies. It should be remembered that within the scope of the telescope are also all the planets of the Solar System, with a very large number of surface details, and many of their moons. The telescope also performs excellently in the observations of our natural satellite, although here, due to the amount of light coming in close to fullness, it is worth using a lunar filter, preferably a dark green neutral density . A large, slightly more than 30 centimeter mirror collects nearly 2,000 times more light than the human eye, while a resolution of 0.55 arc seconds is a real phenomenon. The mirror is made of Pyrex glass, ie boron-silicon glass consisting of 8% boron oxide and 85% silicon oxide. It is the admixture of boron oxide that makes the mirror slightly lighter and, above all, has a lower coefficient of thermal expansion, which positively affects the quality of the images obtained. Of course, although the size of the mirror is the leading parameter, the telescope is well designed in mechanical and optical terms. Focal length 1500 mm, giving a huge light f / 4.9, an excellent 2 inch Crayford lift with a reduction to 1.25 ", a large 9x50 finder, two 25mm and 10mm Ploessl glasses and an intuitively simple Dobson's azimuthal assembly The extractor has a T-2 thread for attaching a reflex camera allowing us to photograph bright objects (proper reduction of proper to your camera is required, i.e. Canon, Nikon, Sony Alpha, Pentax or Olympus). Dobson's assembly is the simplest and the cheapest type of telescope assembly, which works very well in visual observations. Control of the assembly takes place by manually moving it in two axes, in the azimuthal (horizontal) plane and in the vertical (height) axis. The telescope consists of an optical tube with dimensions of 147x35 cm and a weight of 22.5 kg and azimuthal assembly weighing 16.5 kg. The telescope is originally packed in three cardboard boxes, Dobson assembly separately, optical tube and mirror with binding. After assembly, the optical system should be collimated before observation (the collimation instruction in Polish is included in the set). Telescope produced by the well-known Synta factory - manufacturer of, among others brands such as Celestron, SkyWatcher, Omegon, Orion, Spinor Optics, Pentaflex and others. OFFERED TELESCOPIC LETS START OBSERVATIONS IN FIRST WEATHER NIGHT - CONTAINS ALL NECESSARY ACCESSORIES, ASSEMBLY SUNGLASSES AND ASSEMBLY ACCESSORIES Usage Moon the planet star clusters nebulae planes Technical parameters $\hat{\text{€}}$ Optical system: Newton's headlamp $\hat{\text{€}}$ Diameter of the mirror: 305 mm $\hat{\text{€}}$ Focal length of the lens: 1500 mm $\hat{\text{€}}$ Lighted: 1 / 4.9 $\hat{\text{€}}$ Accuracy of the mirror's performance: 1 / 8? $\hat{\text{€}}$ Mirror glass type: Pyrex $\hat{\text{€}}$ Maximum useful magnification: 600x $\hat{\text{€}}$ Dimensions: - height of the entire telescope placed vertically on the assembly: 157 cm - tube height: 150 cm - Diameter of the tube: 35.5 cm - mounting height: 78 cm - Mounting diameter: 63 cm $\hat{\text{€}}$ Dimensions of the telescope packed in transport boxes: - tube: 54 x 53 x 157 cm, 22 kg - main mirror: 46 x 46 x 25 15 kg - Dobson assembly: 14 x 73 x 75 cm, 12 kg $\hat{\text{€}}$ Net overall weight: 40 kg Equipment The set includes the following accessories: $\hat{\text{€}}$ Crayford focuser 2 "with 1.25" reduction and T2 thread $\hat{\text{€}}$ PL 25 mm (over 60x) and 10mm (over 150x) glasses $\hat{\text{€}}$ Dobson's assembly (azimuthal) $\hat{\text{€}}$ 9x50 finder with a cross Warranty 3 years 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 : BEFORE BUYING TELESKOP - GUIDE FOR BUYERS [PDF] READ : A SHORT OPTICAL CLEANER GUIDE [PDF] READ : HOW TO GET A COMPACT WITH A TELESCOPIC [PDF] PLEASE READ : HOW TO GIVE A DIGITAL MULTIPLE TELESCOPE [PDF] Pictures taken with this telescope (Author: MSn) Author's comment for photos: "I am sending pictures from all-night observations that we have carried out on a beautiful night 6/7 September 2013. Just yesterday I finished the last photo. In the morning, we have already looked at winter objects. Because we were focused on observations - I only took pictures in "breaks", but I'm still shocked at what this tube can do :) " Teleskopy.pl would like to thank the author for sending the next, wonderful materials. Pictures were taken with a telescope after putting it on the 12 "Upgrade Kit. Note: after clicking on the photo, it opens in a new window full-size; information about the exposure parameters at the bottom of each photo in large size. (Messier 27 - Dumbbells) (Messier 31) (Messier 31) (Messier 33) (Messier 42) (Messier 57) (Veil) (Veil)