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SkyWatcher APO ED 80 PRO for TPL ALT-AZ AZ5 installation with micromachines and a steel stand Sky-Watcher 80/600 APO ED OTA PRO is a perfectly designed apochromatic optical tube. One of the elements of the lens system is made of a high class low-dispersion ED (FPL-53). The novelty is the use of German glass company Schott AG, leading in the field of glass for optics as the chronicle of glass (the owner of Schott is 100% Carl Zeiss AG - a company known for the highest quality visible in optics design, what materials are used). All in all, we get the optics of one of the highest in the world, for a price that is a fraction of the price we have to pay for the tubes of Japanese brands with analogous parameters. Each glass-air surface was covered with layers of MHC (called "Metallic High-Transmission Coating"), ensuring efficiency on a single border of 99.5%. The excellent mechanics are in the first place a Crayford Rack & Pinion with a 1:10 microcomputer. Included with the tube is a very good two-inch dielectric 90 ° angular cap with 98% efficiency, a 2 "focal-length 28mm eyepiece, a 9x50 finder with a cross and a bracket and dovetail splint. A great tool for planetary observation and astrophoto for "piggy-back" as well as an observation telescope with outstanding optical quality.

Technical specifications of the SW 80 APO ED PRO optical tube

- optical system: APO ED
- Lens diameter: 80 mm
- optical advances: Japanese FPL-53 (ED), cron - Schott AG
- focal length: 600 mm
- weight: 2.47 kg
- 2 "eyepiece with a microfooter 1:10
- dimensions of the optical tube: 100x620 mm

Universal mounting ALT-AZ (AZ5) with micromovers and steel field rack Universal assembly with azimuthal head with a powerful lifting capacity of 12 kg, typical for EQ5 class assemblies. ALT-AZ type head with micromodes in two axes, equipped with dovetail in the Vixen standard. Adjustable steel field tripod with accessories stand. The assembly allows for mounting SCT and Maksutov telescopes up to $f = 180 \text{ mm} - 200 \text{ mm}$, refractors up to 152 mm, as well as spotting scopes and large binoculars of 25x100 or 28x110 type, typically mounted on photographic tripods (we recommend L-type rails with thread 1 for their assembly) / 4 inch), while ensuring low vibration, good rigidity, smooth adjustment of the tube position and equipment safety. Azimuthal assemblies make it easier and faster to position the telescope on an object of interest in the sky than the parallormal assembly. The assembly of ALT-AZ is recommended for visual observations of the sky, especially refractors (ideal for APO), Maki and SCT. The assembly is relatively light and easy to transport, so it can be part of the travel set. Regarding the mounting of Newton's telescopes, tests were carried out (information below) with a tube 8 "f / 5 (Messier NT 203/1000) and the assembly deals with such a tube, however, due to the specificity of Newtonian tubes, we suggest using a tube assembly Newton 130 - 150 mm. The montage is perfect for landscape observations (distant observations, natural observations) as well as for observation and photographing of aircraft at cruising altitudes. The head arm can be placed at different angles to the horizontal - the highest stiffness and lifting capacity is of course in the vertical position of the arm, however, this feature allows optimal mounting of the observer and observation even close to the zenith with many optical tubes. The arm can be moved from the vertical by 60 ° or 120 ° (the fixing holes are spaced at 60 degrees). Technical parameters of ALT-AZ assembly

- lifting capacity : 12 kg (see: below)
- height of tripod spaced (min): 74 cm
- height of tripod (max): 125 cm
- distance between the ends of the legs of the fully unfolded tripod: 123 cm
- Steel legs diameter (thicker / thinner): 1.5 " / 1" (37.7 mm / 25 mm)
- total height of the head: 32.5 cm
- total height (tripod + head vertically, min) : 96 cm
- total height (tripod + head, max) : 140 cm
- total height (tripod + head inclined 60 ° from vertical, min) : 85 cm
- total height (tripod + head inclined by 60 ° from the vertical, max) : 127 cm
- head weight: 2225 g
- weight of the field tripod: 3825 g
- total weight : 6050 g

Usage Moon the planet star clusters nebulae scenery Warranty 2 years (80/600 apochromatic optical tube) (finder 9x50, connector 2 ", eyepiece 28 mm / 2", angled connector 90 ° / 2 ") (included 2 " / 1.25" adapter allows the use of any 1.25 "glasses, microfocuser 1:10 allows very precise focusing) (accessories included with the tube) (telescope and accessories in aluminum case - included) (set in a closed aluminum case) (complete ALT-AZ assembly with high lifting capacity and stiffness) (adjustable height steel stand, accessory shelf) which is also a stabilizing element of the tripod legs' distance) (head with micromodes on chirators both in azimuth axis and height) (the thought-out design allows virtually any mutual positioning of the arm, dovetail mounting bracket and microscopic knobs) (the head of the head can be extended by 60 ° or even 120 ° from the vertical in both directions after unscrewing 2 screws) (the arm can be set in different angles)