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Binocular TS 20x110 Marine MX mounted ALT-AZ 5 with Multi-Plate mounting plate TS 20x110 MX Marine - one of the largest binoculars on the market. Images of galaxies, nebulae, and the moon are knocked off their feet. It is also used as observing binoculars for field and natural observations - the image brightness is incomparably greater than in observation telescopes, while the magnification equal to 20x corresponds to the enlargement of small and medium-sized telescopes. If you add to this the plasticity and depth of the image as well as the 3-D effect associated with the two-part observation - we get a product, which few! In addition, it is worth mentioning a certain feature that is often forgotten, and more importantly - about the size of prisms. Too small prisms make the image not evenly bright in the entire field of view, it is darker on the edges. The TS MX Marine binoculars, and the 20x110 model in particular, are equipped with large BaK-4 prisms, thanks to which the picture is perfectly bright in the whole over 3-degree field of view. Features of the MX Marine series of binoculars TS MX Marine binoculars are characterized by a very strong construction - a solid

metal body is covered with rubber. These binoculars can withstand even significant impacts or a fall from a low height. They are not harmed by high humidity, rain or water. They are protected by O-rings and filled with nitrogen, which makes them good on the water (sailing, kayaking, motor-boating), as well as during natural observation. Miles of astronomy will appreciate the flat field of view (no distortion of the image), very good correction of chromatic aberration and high efficiency of the optical system. The TS MX Marine binoculars have a focusing system for each eye in combination with a large depth of field. Thanks to this, high mechanical resistance and comfort have been achieved - binoculars do not require frequent focusing on objects at different distances. Components of the set (links): TS 28x110 Marine MX binoculars Mounting TPL ALT-AZ with micromovement Multi-function mounting plate with dovetail (multi-plate) Technical parameters of TS 20x110 binoculars ∅ Lens diameter: 110 mm ∅ Zoom: 20x ∅ Output: 5.5 mm ∅ Construction of prisms: porropryzmatyczna ∅ Material of glass elements: optical glass BaK-4 ∅ Anti-reflective layers: MC on all optical surfaces, total system efficiency of 94% ∅ Field of view: 3.3 ° ∅ Eye relief: 23 mm ∅ Twilight efficiency: 46.9 ∅ Adjusting the focus: individually for each eyepiece, +/- 5 Diopters ∅ Minimum distance of observation: 50 m ∅ Range of eyepieces / output gauges: 56 mm - 74 mm ∅ Water resistance: YES ∅ Resistance to shock: YES ∅ Nitrogen filling: YES ∅ Dimensions: length: 53 cm, width max: 26.5 cm ∅ Weight: about 6.8 kg Usage: astronomy hunting sailing nature military 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. The ALT-AZ type head with micromodes in two axes is equipped with a dovetail in the Vixen standard. Adjustable steel field tripod with accessories stand. The mounting allows for the attachment of SCT and Maksutov telescopes up to  $\phi = 180$  mm - 200 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 rail with thread 1 for their assembly) / 4 inch or multi-plate), 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 Warranty 2 years note: now the binoculars are mounted on a different, better bracket: (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) (assembly dimensions with the shortest leg length) (assembly dimensions at the greatest leg length)