



TMB 7.5 mm Planetary II is a short-range eyepiece offered by TMB Optical, a company created by the renowned apochromatic refractor designer, Tomasz Back. 7.5mm Eyepiece TMB Planetary II is designed to achieve maximum contrast, detail and resolution when observing bright objects such as the Moon and planets, both on the optical axis and at the edges of the field of view. This eyepiece is characterized by a high transmission of light and minimal reflections. This allows you to achieve very high magnification with high quality mapping of objects in long-range refractors, reflectors and catadioptrical systems in average and better viewing conditions at the astonishing low price of the

eyepiece. Works well with catadioptric telescopes with light from $f / 10$ to $f / 15$. It also reproduces nicely using the Newton telescope. For example, in the Newton's $12" f / 5$ telescope (eg GSO Dobson $12"$ Deluxe) we get a magnification of $203\times$, very good for observations of M13 globular clusters and planetary nebulae. After using the Barlow $2\times$ lens, we get a magnification of over $400\times$, close to the maximum magnification under typical conditions under Polish sky. For a $80\text{ mm } f / 6$ refractor (eg Meade APO $80/480$), a spherical or $64\times$ magnification with a field of view equal to 0.89° , i.e. around 1 and $3/4$ the full moon diameter. Okular works well with all telescopes with intermediate parameters to those given above. An eye relief of 12 mm is a good result for an eyepiece with such a short focal length. Vignetting occurs only in people who need to wear optical glasses during observations and it is small. Also, this is not a major disadvantage, because the TMB Planetary II series glasses are dedicated to observing planets, double stars, etc. objects that are compact and stay in the middle of the field of view, where the human eye has the maximum sharpness of the image. For telescope owners on Dobson assembly and other telescopes without drives, very small color fission and low level of other aberrations allows observation of planets drifting through the whole field of view (own 58° field) of the eyepiece, thus maximizing the observation time of the object between further telescope shifts. Although the eyepiece is optimized for observing the subtle details of the Moon and planets, the eyepiece characteristics allow equally efficient use of the eyepiece for separating compact double systems or observing globular clusters.

- â€¢ Focal length: 7.5 mm
- â€¢ Field of view: 58°
- â€¢ Distance of the exit pupil: 12 mm
- â€¢ Diameter of binding: 1.25 inches
- â€¢ Antireflective layers: FMC
- â€¢ 6-element eyepiece
- â€¢ Weight: 142 g
- Warranty 2 years
- Logo variability: depending on the delivery from the factory, the eyepiece is either without a logotype or with the StarGuider logo