

HISTRO-PROT6.3/40MC - "MS-Optical Historical Series Collection #1"

PROTAR is an anastigmat lens designed by Rudolph of Zeiss in 1890. Based on the PROTAR, I have designed a new lens HISTRO-PROT 6.3/40 MC by improving/adjusting its spherical surface distortion, image curve, and coma. These improved conditions can be seen in the figures below. In particular, the minimized color distortion of this new lens is remarkable.

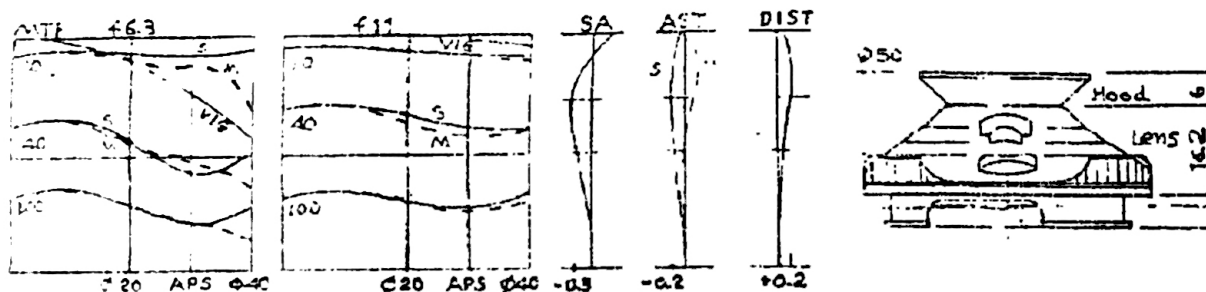
I decided to design this lens as I was inspired/charmed by a photo of a beautiful lotus flower taken by Mr. A of Osaka using PROTAR lens. The original PROTAR lens however is a dark lens with $f12 - 18$. I managed successfully to improve its brightness up to $f6.3$ by using a high refraction glass, while the original lens characteristics of and taste of PROTAR being maintained.

HISTRO-PROT6.3/40 MC has been newly created as MS-Optical's Historical Series Collection #1. This new lens exceeds Gauss/Tessar, and Apo lens. The new lens has a simple form of 2-4P with multi-coating on all the spheres. Beautiful and innocent color development is obtained with this lens. As illustrated in the MTF chart, sufficient contrast and resolution are obtained at full open. Diffraction limit is 70% at $f8$, and reaches 100% at $f11$. Spot size is 7μ at the lens center; 10μ at middle range; 14μ at peripheral. At $f11$, it is $5-10\mu$ at all areas of the lens. Between $f16-f22$, contrast would be lowered due to diffraction.

HISTRO-PROT6.3/40 MC is a light compact pancake type lens. It is ideal as macro lens with minimized distortion, and suitable to take snap photos or scenery photography.

SPECIFICATIONS

- Leica M-mount
- PROTAR type lens 6.3/40
- 4 pieces in 2 group; 4 spheres full multi coating
- Focusing: $\infty - 60\text{cm}$ approx.; Interlocking movement: $\infty - 0.85$
- Dimensions: $\phi 50 \times 16.4$
- Weight 45g; Set weight 60g
- Filter: $\phi 22.5$ Pitch 0.75



MS-Optical Future Historical Series to be Released:

#2) DAGOR 6.3/40; #3) ELNOSTER 18/50; #4) PETVAL 2/58; #5) PLANAR 3.7/50 (Original)

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