Biogon T* 2.8/21 ZM
The expert for confined spaces and super-wide angle photography

This lens provides image quality clearly beyond that of any SLR super-wide angle lens. It has been especially designed for super-wide angle documentation photography requiring an extremely high resolving power. Tiny details can be captured with unparalleled crispness and accuracy, while distortion is virtually non-existent. Demanding interiors can be photographed as easily and quickly as never before. This lens opens up new horizons and is ideal for extreme landscapes, dynamic architecture and demanding interiors.

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**Technical Specification**

- **Focal length:** 21 mm
- **Aperture range:** 2.8–22
- **No. of elements/groups:** 9/7
- **Focusing range:** 0.5 m–infinity
- **Image ratio at close range:** 1:21
- **Coverage at close range:** 47 cm x 71 cm
- **Angular field, diag./horiz./vert.:** 90/80/58°
- **Filter:** M 46 x 0.75
- **Weight:** 300 g
- **Length:** 64 mm

**Cat. No. silver:** 30 82021
**Cat. No. black:** 30 82022

Subject to change.

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Performance data

Modulation transfer T as a function of image height and slit orientation: sag \( \tan \) ......

White light. Spatial frequencies \( R = 10, 20 \) and 40 cycles/mm.

f-number: \( k = 2.8 \)
\[
\begin{align*}
T &= 100 \\
80 \\
60 \\
40 \\
20 \\
0 \\
\end{align*}
\]

f-number: \( k = 5.6 \)
\[
\begin{align*}
T &= 100 \\
80 \\
60 \\
40 \\
20 \\
0 \\
\end{align*}
\]

Distortion in % of image height

Subject to change.