# LEICA **VARIO-ELMARIT-SL** 28-70 f/2.8 ASPH.

## Technical Data.
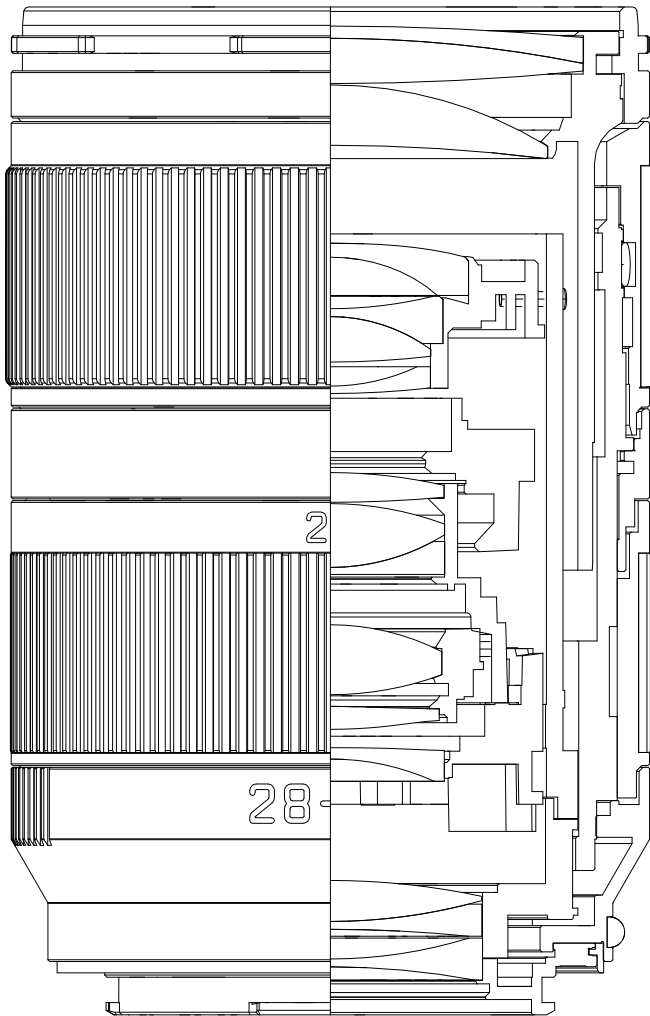


| Lens | LEICA VARIO-ELMARIT-SL 28-70 f/2.8 ASPH. |
|---|---|
| Order No. | |
| Black, anodized | 11196 |
| View angle (diagonal/horizontal/vertical) | |
| Full-frame (24 x 36 mm) | **28 mm:** 73.8°/63.9°/45.2° **\| 70 mm:** 35.4°/29.8°/20.1° |
| Lens system | |
| Number of lenses/assemblies | 16/12 |
| Position of the entrance pupil before the bayonet | **28 mm:** 89.80 mm **\| 70 mm:** 68.40 mm |
| Focus range | **28 mm:** 0.19 m to ∞ **\| 70 mm:** 0.38 m to ∞ |
| Focusing | |
| Setting | Choose automatic (Autofocus) or manual mode on the camera |
| Smallest object field | Full-frame: **28 mm:** 79.2 mm x 118.9 mm **\| 70 mm:** 109.9 mm x 164.8 mm |
| Largest scale | **28 mm:** 1:3.3 **\| 70 mm:** 1:4.6 |
| Aperture | |
| Setting/Function | Electronically controlled aperture, setting on the camera, half or third values can also be set |
| Smallest aperture | 22 |
| Bayonet | Leica L bayonet fitting with contact strip |
| Firmware | Lens firmware can be updated via the camera |
| Coating | Hydrophobe Aqua-Dura® coating on external lenses |
| Material | Magnesium and aluminum full-metal housing, black anodized, dust and splash water protected |
| Filter thread | E67 |
| Lens hood | Male bayonet for lens hood (included in the scope of delivery) |
| Dimensions | |
| Length | Approx. 102 mm/139 mm (without/with lens hood) |
| Diameter | Approx. 73 mm/82 mm (without/with lens hood) |
| Weight | Approx. 572 g/613 g (without/with lens hood) |

# LEICA **VARIO-ELMARIT-SL** 28-70 f/2.8 ASPH.

**TECHNICAL DRAWING**

**LENS CUT**



Aspherical lenses

Focusing lenses
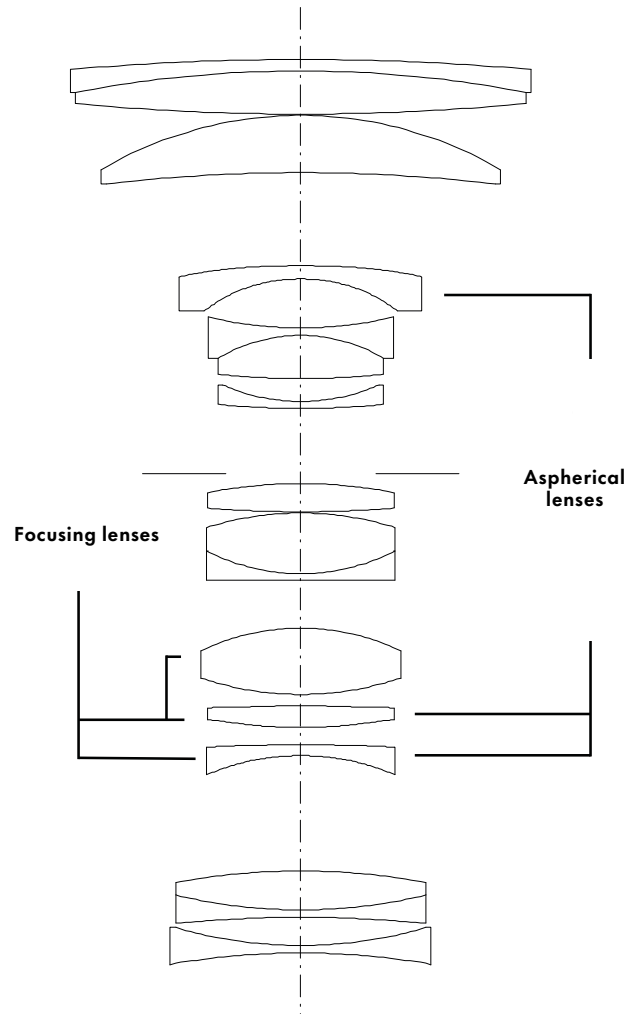
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## MTF DIAGRAMS

| 28 mm | 40 mm | 70 mm |
|---|---|---|
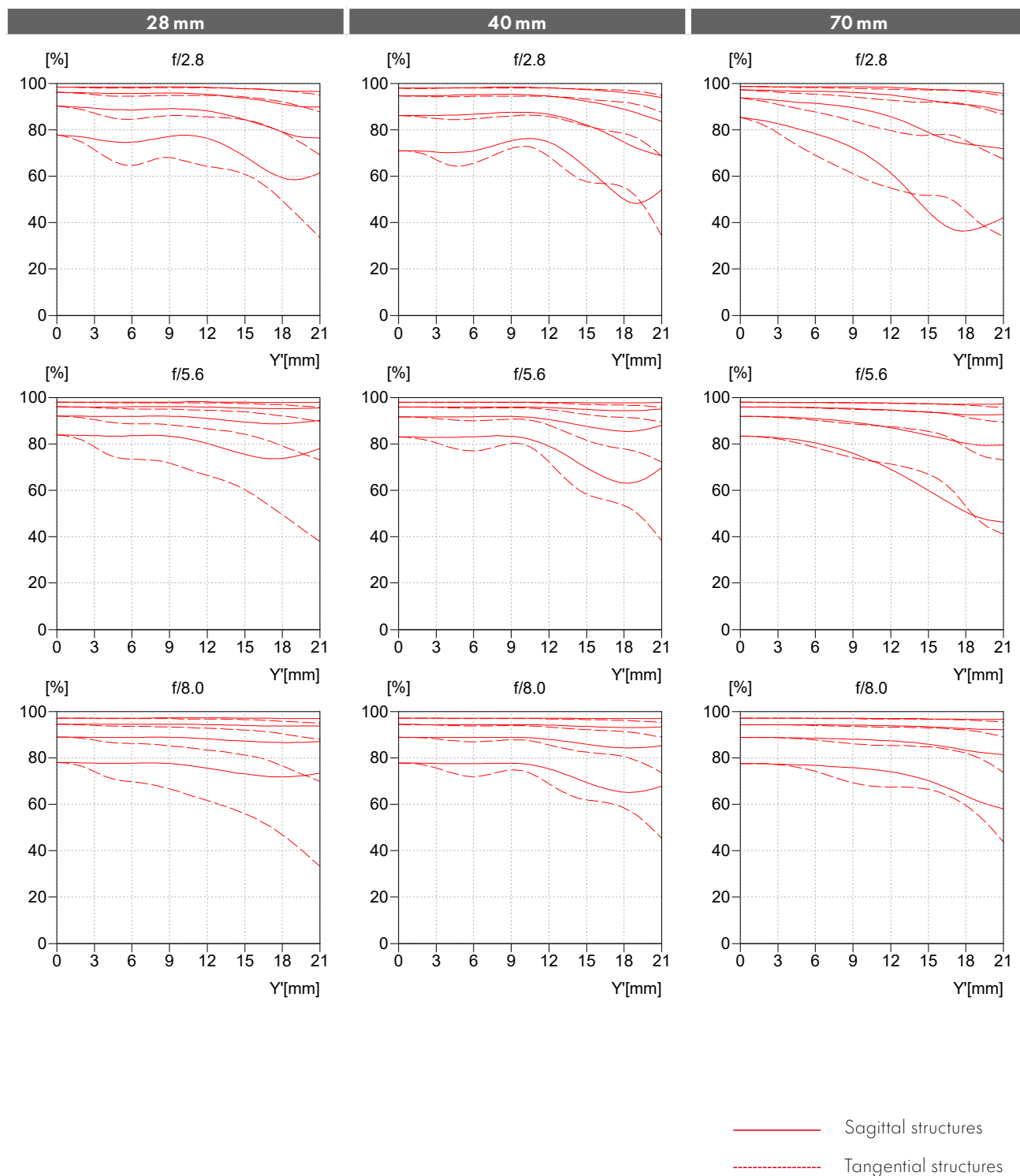


**MTF CURVES**

The MTF is shown in each case for the max. aperture as well as for 5.6 and 8 for long focus distances (infinity). The contrast is plotted in percentages for 5, 10, 20, 40 Lp/mm over the height of the format for tangential (dashed line) and sagittal structures (continuous line) for white light. The plots for 5 and 10 Lp/mm offer an impression of the contrast behavior for coarser object structures, while the 20 and 40 Lp/mm plots document the resolution capability for fine and finest object structures.