



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

Technical Data.

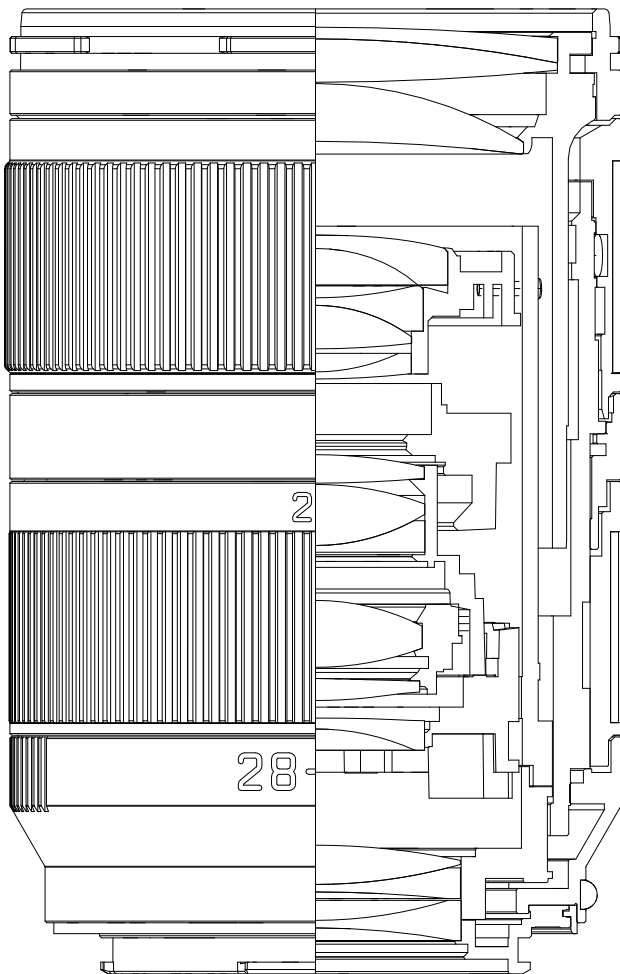


Lens		LEICA VARIO-ELMARIT-SL 28-70 f/2.8 ASPH.
Order No.	Black, anodized	11196
View angle (diagonal/horizontal/vertical) Full-frame (24 x 36 mm)		<b>28 mm:</b> 73.8°/63.9°/45.2°   <b>70 mm:</b> 35.4°/29.8°/20.1°
Lens system		
Number of lenses/assemblies		16/12
Position of the entrance pupil before the bayonet		<b>28 mm:</b> 89.80 mm   <b>70 mm:</b> 68.40 mm
Focus range		<b>28 mm:</b> 0.19 m to ∞   <b>70 mm:</b> 0.38 m to ∞
Focusing		
Setting		Choose automatic (Autofocus) or manual mode on the camera
Smallest object field		Full-frame: <b>28 mm:</b> 79.2 mm x 118.9 mm   <b>70 mm:</b> 109.9 mm x 164.8 mm
Largest scale		<b>28 mm:</b> 1:3.3   <b>70 mm:</b> 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)

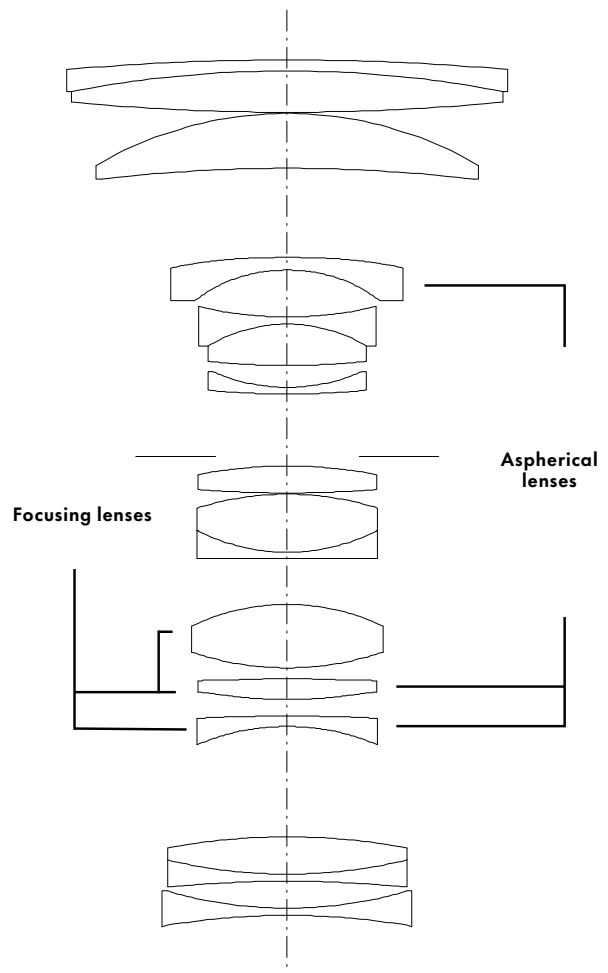


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TECHNICAL DRAWING



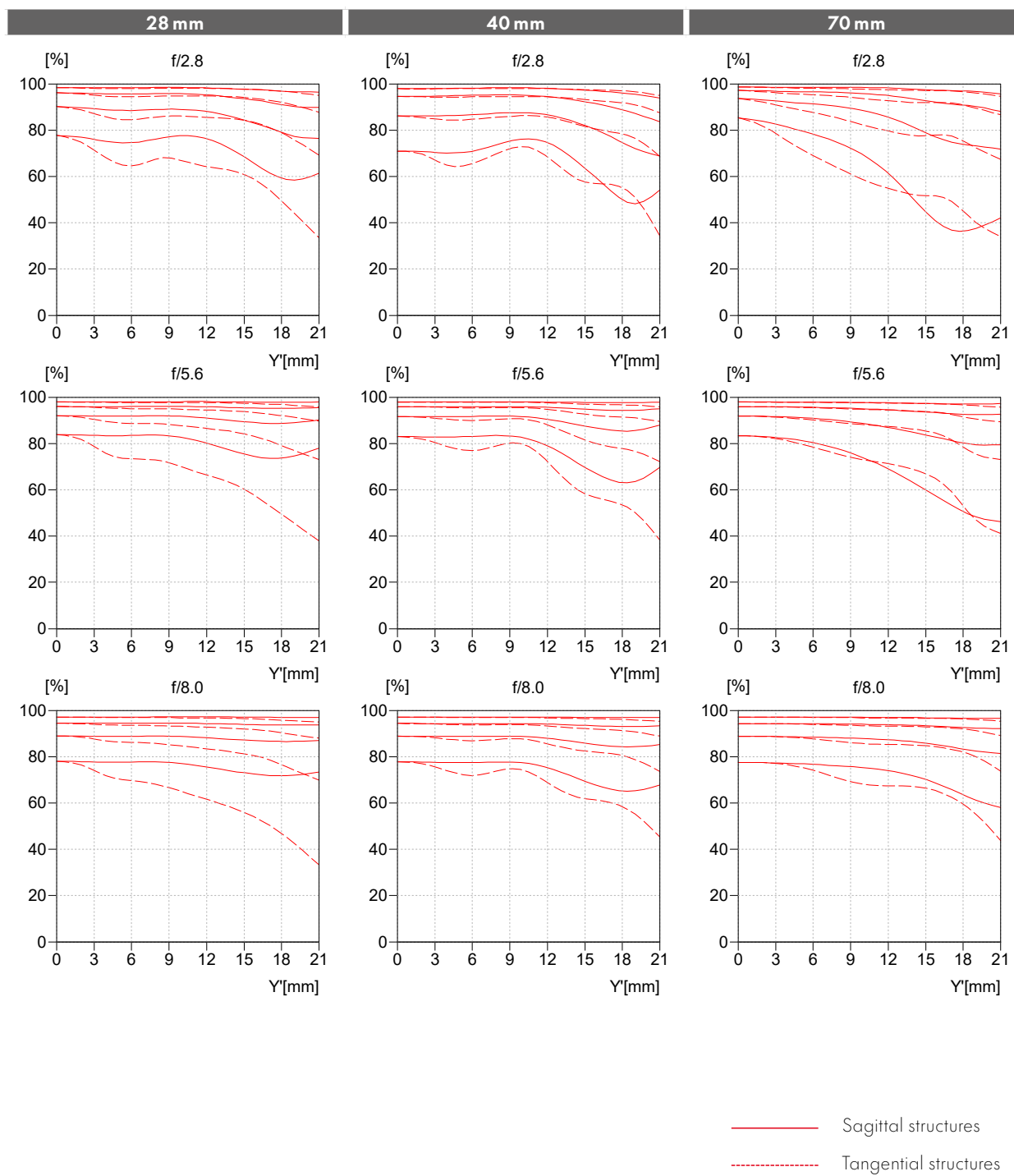
LENS CUT





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## MTF DIAGRAMS



## 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.