

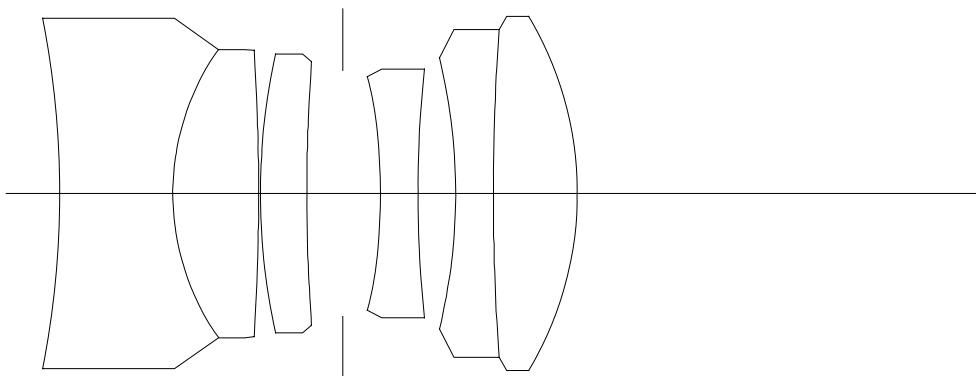


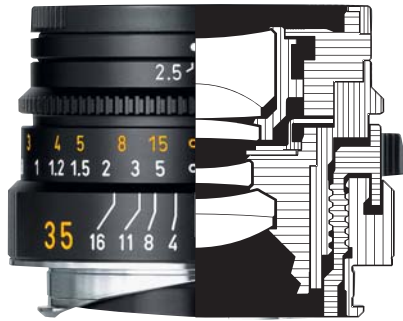
LEICA SUMMARIT-M 35 mm f/2.5



The LEICA SUMMARIT-M 35 mm f/2.5 gives all users of rangefinder cameras with a Leica M bayonet access to the smallest and lightest 35 mm lens available, offering the outstanding image quality that is the hallmark of all Leica M lenses. In the Leica M system the 35 mm lens is used by many as the standard focal length, while on the digital LEICA M8, the LEICA SUMMARIT-M 35 mm f/2.5 corresponds approximately to a 50 mm standard lens. As a genuine all-rounder, it is indispensable choice whenever you are putting together a new equipment configuration since it can deal effectively with all photographic situations - from vivid shots of people at medium range all the way to dramatic landscapes.

— Lens shape





— Engineering drawing

Technical Data

Angle of view (diagonal, horizontal, vertical) For 35 mm (24 x 36 mm) : 63°, 54°, 38°, for LEICA M8 (18 x 27 mm) : 50°, 42°, 29°, corresponds to a focal length of approx. 47 mm with 35 mm-format

Optical design **Number of lenses/groups:** 6 / 4

Focal length: 35.4 mm

Position of entrance pupil: 9.3 mm (related to the first lens surface in light direction)

Distance setting **Focusing range:** 0.8 to endless

Scales: Combined meter/feet graduation

Smallest object field/Largest reproduction ratio:

For 35 mm, approx. 490 x 735 mm / 1:20.4

for LEICA M8, approx. 367 x 551 mm / 1:20.4

Aperture **Setting/Function:** Preset, with click-stops, half values available

Lowest value: 16

Bayonet Leica M quick-change bayonet with 6 bit lens identification bar code for digital M models

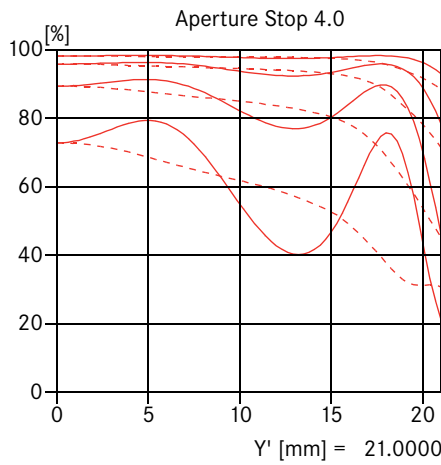
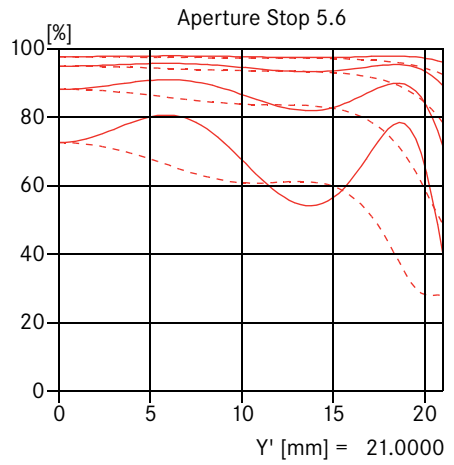
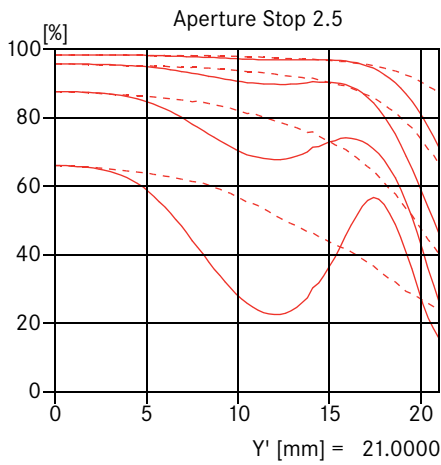
Filter mount/Lens hood Non-rotating, internal thread for screw-on filters size E39, external thread with stop for lens hood protection ring for external thread included in delivery, lens hood available as accessory

Dimension and weight **Length:** approx. 33.9 mm

Largest diameter: approx. 51.4 mm

Weight: approx. 220 g

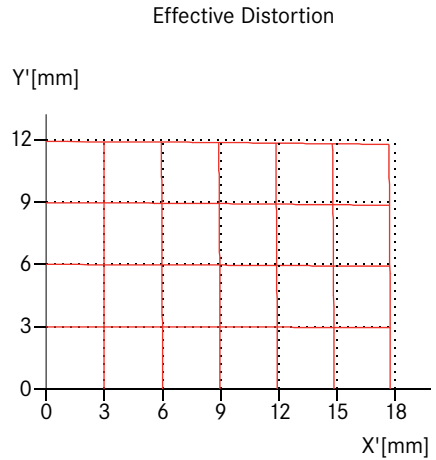
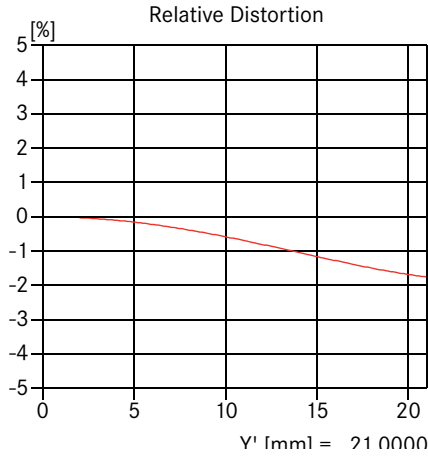
— MTF graphs



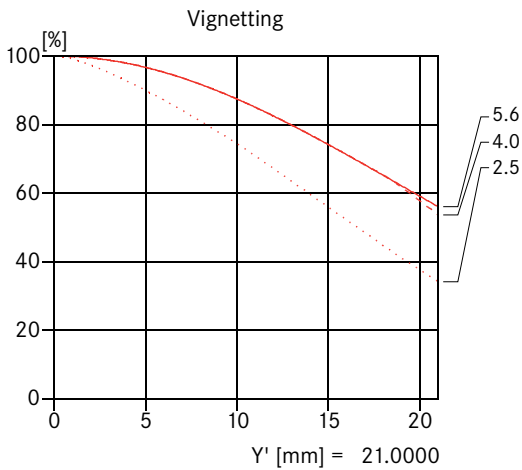
The MTF is indicated both at full aperture and at f/5.6 at long taking distances (infinity). Shown is the contrast in percentage for 5, 10, 20 and 40 lp/mm across the height of the 35 mm film format, for tangential (dotted line) and sagittal (solid line) structures, in white light. The 5 and 10 lp/mm will give an indication regarding the contrast ratio for large object structures. The 20 and 40 lp/mm records the resolution of finer and finest object structures.

- sagittal structures
- - - tangential structures

— Distortion



— Vignetting



Distortion is the deviation of the real image height (in the picture) from the ideal image height. The relative distortion is the percentage deviation. The ideal image height results from the object height and the magnification. The image height of 21.6mm is the radial distance between the edge and the middle of the image field for the format 24mm x 36mm. The graph of the effective distortion illustrates the appearance of straight horizontal and vertical lines in the picture.

Vignetting is a continuous decrease of the illumination to the edges of the image field. The graph shows the percentage loss of illumination over the image height. 100% means no vignetting.



Depth of field table

	Aperture Stop							Magnification
	2,5	2,8	4	5,6	8	11	16	
1	0,944 - 1,063	0,938 - 1,072	0,913 - 1,106	0,883 - 1,155	0,841 - 1,238	0,795 - 1,361	0,728 - 1,635	1/26,0
1,2	1,119 - 1,294	1,110 - 1,307	1,076 - 1,359	1,033 - 1,435	0,976 - 1,568	0,912 - 1,775	0,824 - 2,282	1/31,7
1,5	1,373 - 1,653	1,360 - 1,674	1,308 - 1,762	1,244 - 1,895	1,160 - 2,139	1,071 - 2,552	0,950 - 3,781	1/40,2
2	1,778 - 2,288	1,755 - 2,328	1,667 - 2,505	1,564 - 2,788	1,432 - 3,362	1,296 - 4,535	1,120 - 11,01	1/54,3
3	2,520 - 3,712	2,472 - 3,821	2,300 - 4,332	2,105 - 5,275	1,869 - 7,851	1,640 - 20,38	1,364 - ∞	1/82,6
5	3,783 - 7,394	3,675 - 7,849	3,303 - 10,40	2,910 - 18,40	2,472 - ∞	2,083 - ∞	1,653 - ∞	1/139
10	6,061 - 28,90	5,787 - 37,47	4,907 - ∞	4,081 - ∞	3,262 - ∞	2,612 - ∞	1,965 - ∞	1/280
∞	15,24 - ∞	13,600 - ∞	9,540 - ∞	6,829 - ∞	4,795 - ∞	3,501 - ∞	2,422 - ∞	1/∞

