



Product Information

LEICA SUMMILUX-M 50 mm f/1.4 ASPH.



The new standard

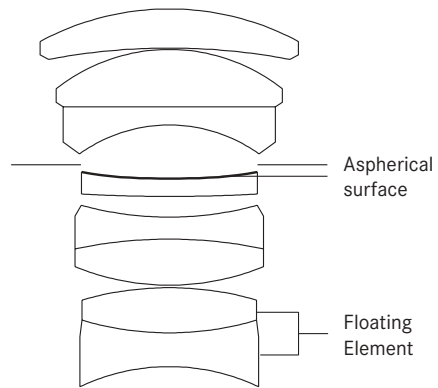
Leica Camera AG has unveiled a new high-speed standard lens for the Leica M System offering maximum imaging performance: the new LEICA SUMMILUX-M 50 mm f/1.4 ASPH. It supersedes the predecessor lens with the same speed, which, notwithstanding a few minor modifications, had been part of our range since 1962.

The aim of this new development was to create a reference lens to push the technical boundaries of photography using standard focal lengths into new dimensions. The new LEICA SUMMILUX-M 50 mm f/1.4 ASPH. delivers virtually the same outstanding performance throughout all apertures and focus settings. Whether using selective focus at close range, high-contrast

available light applications or an extended depth of field to capture landscapes, the LEICA SUMMILUX-M 50 mm f/1.4 ASPH. handles every situation with ease. It therefore delivers on its promise to be a genuine universal lens in impressive fashion. The optical structure of the new LEICA SUMMILUX-M 50 mm f/1.4 ASPH. consists of eight lens elements in five components. These make up a new type of lens in the range of double Gauss designs. The first three elements conform to the usual Gauss structure, while the construction of the lens elements behind the diaphragm builds on that of the outstanding LEICA SUMMILUX-M 35 mm f/1.4 ASPH, which is particularly notable for the concave surface facing the image plane.

Glass with anomalous partial dispersion (elements 2/3) was used to ensure correct color rendition and deliver strong imaging performance. Lens element 2 is made of a fluorite-type glass, while glass originating from the former Leitz glass laboratory was used for element 3. Lens element 4 has an aspherical surface. Alongside the aspherical element, glass with very high refractive power was also used to minimize monochrome imaging aberrations (elements 1/6/7).

At full stop, the LEICA SUMMILUX-M 50 mm f/1.4 ASPH. offers high contrast rendering even for the finest structures. This performance can only be raised slightly by stopping down. A high level of freedom from distortion is another notable feature. The normal



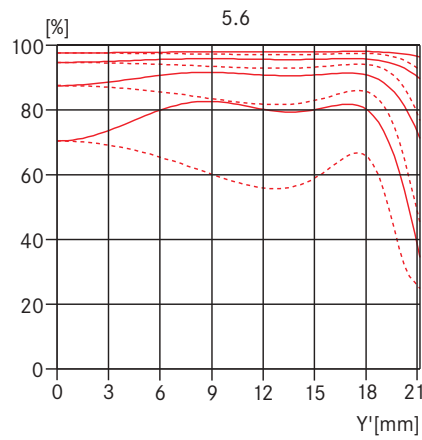
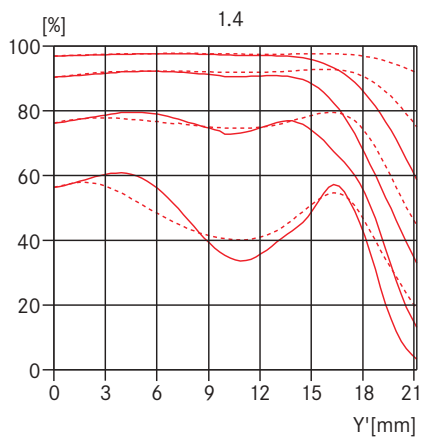
vignetting for such high-speed lenses at full stop (up to 2 stops in the corners in this case) is strongly reduced by stopping down (to around $\frac{1}{2}$ stop with $f/5.6$). Furthermore, the use of the most advanced coating technology ensures a high degree of anti-glare. For the first time in a Leica M lens, a 'floating element' is used to maintain imaging performance even in close-focus ranges down to 0.7m. During focusing, the rear-most component (elements 7/8) alters its position relative to the rest of the optical system. To maximize the benefits of this design, an extremely precise adjusting mechanism has been utilized that also had

to fit into the restricted space inside a compact M-lens.

The new LEICA SUMMILUX-M 50 mm $f/1.4$ ASPH. also offers special new features in terms of its handling: The built-in lens hood not only provides protection against stray light and dust, it can also be locked in extended position to guard against accidental retracting. In addition to the familiar knurled ring, the lens is equipped with a finger grip that allows easy focusing using one finger. The balanced proportions of the lens also mean that comfortable usage for longer periods is possible.

Summary:

Every innovation currently available in lens technology – aspherical lenses, glass with anomalous partial dispersion, glass with a high refraction index and a floating element – has been combined to create a lens that sets the new standard in this focal length class.



The MTF is indicated both at full stop and $f/5.6$ 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.



my point of view

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Technical Data

- **Angle of view** (diagonal, horizontal, vertical): 47°, 40°, 27°
- **Optical design**
Number of lenses/groups: 8/5
Aspherical surfaces: 1
- **Distance setting**
Focusing range: 0.7m to ∞
Scales: Combined meter/feet graduation
Smallest object field: 271 x 407 mm
Largest reproduction ratio: approx. 1:11.3
- **Aperture**
Setting/Function: Preset, with click-stops, half values available
Lowest value: 16
- **Lens mount:** Leica M quick-change bayonet
- **Filter mount:** Internal thread for screw-on filters size E46, non-rotating
- **Lens hood:** Built-in, telescopic, lockable
- **Viewfinder:** Camera viewfinder
- **Finish:** Black anodized
- **Dimensions and weight**
Length to bayonet flange: approx. 52.5 mm
Largest diameter: approx. 53.5 mm
Weight: approx. 335 g

Compatible Cameras

All Leica M-models

LEICA SUMMILUX-M 50 mm f/1.4 ASPH.

Black anodized
Order no. 11 891

Scope of Delivery

LEICA SUMMILUX-M 50 mm f/1.4 ASPH.
With front and rear lens caps, in a soft leather case

Accessories

LEICA E46 Filter Uva
Order no. 13 004
LEICA Universal Polarizing Filter
Order no. 13 356

Spare parts

Front lens cap
Order no. 14 231
Rear lens cap
Order no. 14 269
Soft nappa leather case
Order no. 439-606.088-000



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English 92 070