

Service Manual

Interchangeable Lens for Digital Camera



LEICA
DS MACRO-ELMARIT

Model No. **H-ES045PP**
H-ES045E
H-ES045GK

Vol.1



Specifications

INTERCHANGEABLE LENS FOR DIGITAL CAMERA
"LEICA DS MACRO-ELMARIT 45 mm/F2.8 ASPH./MEGA O.I.S."

Focal length	45 mm (35 mm film camera equivalent: 50 mm)
Aperture type	7 leaf shutter-type diaphragm/interior diaphragm
Aperture range	F2.8
Minimum aperture value	F22
Lens construction	14 elements in 10 groups (1 aspherical lens, 1 ED lens)
In focus distance	[FULL] 0.15 m (0.5 feet) to ∞ / [LIMIT] 0.5 m (1.64 feet) to ∞ (from the focus distance reference line)
Maximum image magnification	1.0 \times (35 mm film camera equivalent: 2.0 \times)
Optical image stabilizer	Available
Mount	"Micro Four Thirds Mount"
Angle of view	23°
Filter diameter	45 mm (1.81 inch)
Max. diameter	Approx. 63 mm (2.48 inch)
Overall length	Approx. 62.5 mm (2.46 inch) (from the tip of the lens to the base side of the lens mount)
Mass (Weight)	Approx. 225 g (7.94 oz)

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic H Es045 Service Manual Repair Guide

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Panasonic H Es045 Service Manual Repair Guide:

Adopting the Beat of Appearance: An Emotional Symphony within **Panasonic H Es045 Service Manual Repair Guide**

In a world taken by monitors and the ceaseless chatter of quick interaction, the melodic elegance and psychological symphony created by the published term often fade in to the background, eclipsed by the persistent noise and disruptions that permeate our lives. However, situated within the pages of **Panasonic H Es045 Service Manual Repair Guide** a stunning literary value filled with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that charming masterpiece conducts readers on a psychological journey, skillfully unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths of the poignant assessment, we can discover the book is key harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Bibliographic information ; Publisher, Smithsonian Institution Press, 1986 ; Original from, the University of Michigan ;
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