

# 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 f/2.8 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 $\infty$ / [LIMIT]: 0.5 m (1.64 feet) to $\infty$ (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

**Burton & Rogers Manufacturing Co.,  
Boston**



## **Panasonic H Es045 Service Manual Repair Guide:**

## Unveiling the Magic of Words: A Review of "**Panasonic H Es045 Service Manual Repair Guide**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Panasonic H Es045 Service Manual Repair Guide**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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