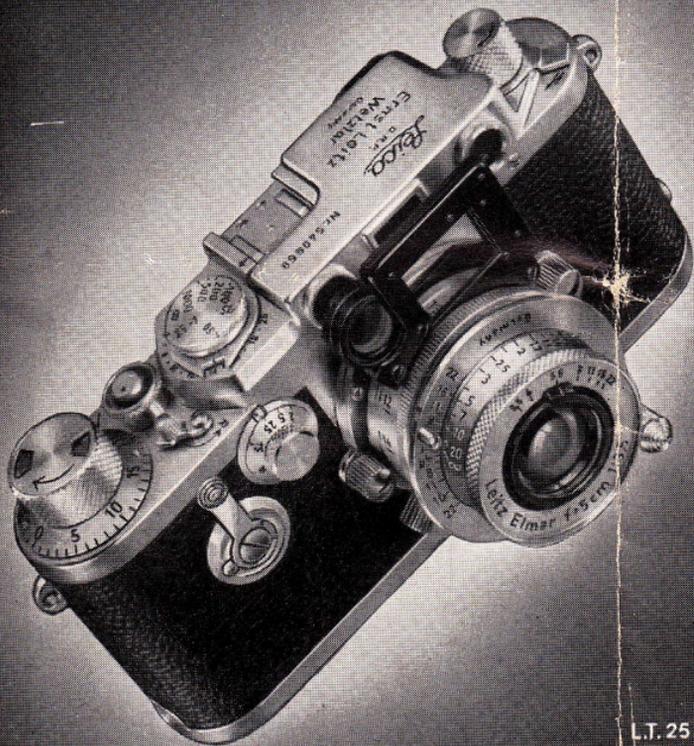


Leitz



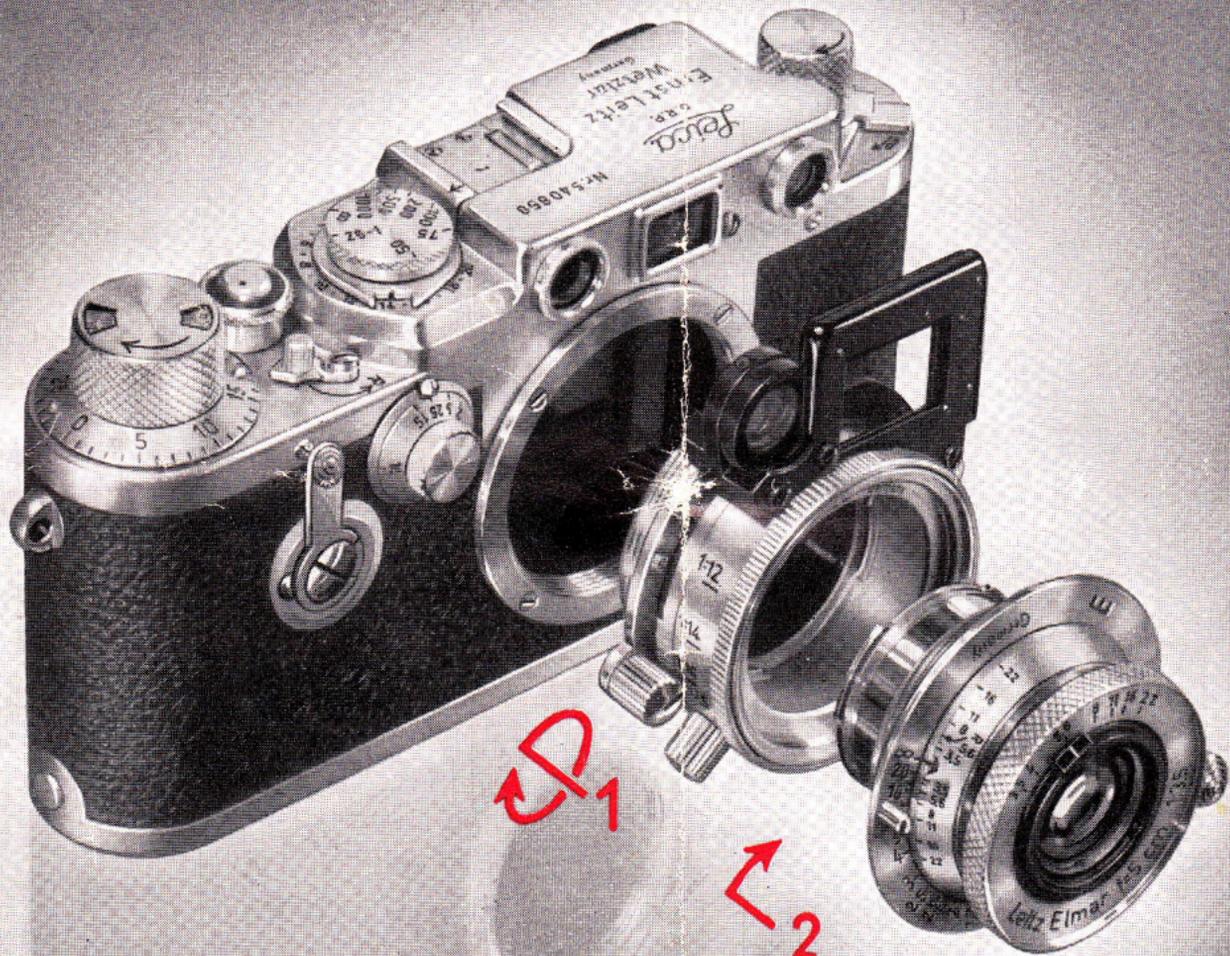
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Optical
Near-Focusing
Device for the



ERNST LEITZ GMBH WETZLAR

12-5a/Engl.



ERNST LEITZ GMBH WETZLAR

2987 e

It is the small objects which, because of their interesting or particular form, very often are most attractive to photograph, and the standard lens 50 mm. alone is not sufficient. In these instances the Optical Near-Focusing Device is used and can be fitted without a tripod between the objective and the camera of every LEICA-model except Model III g. Distances between $3\frac{1}{2}$ feet and $16\frac{1}{2}$ inches figured from the film plane, can quickly be focused with the built-in range finder of the LEICA. In other words, distances between the limits above and, therefore, the ratios of reduction from 1:17.5 to 1:6.5, are continuously focusable. The size of the object, depending on the distance, varies between $1'5'' \times 2'1''$ and $5\frac{3}{4}'' \times 8\frac{1}{2}''$ (42 cm. x 63 cm. and 15 cm. x 22.5 cm.) With the Summicron 5 cm lens the range of focusing is from $3'3\frac{3}{8}''$ to $1'7\frac{11}{16}''$ (1 m to 50 cm.) that is to say from a ratio of reduction of 1:17.5 to 1.8 or object sizes between $16\frac{9}{16}'' \times 24\frac{13}{16}''$ and $7\frac{9}{16}'' \times 11\frac{5}{16}''$ (22 x 63 cm. to 19.2 x 28.8 cm.).

The focusing mount of the optical near-focusing device screws into the lens ring on the LEICA Camera. It is fitted with a wedge glass, which positions itself in front of the range finder opening and thereby permits critical focusing at short distances; it also includes a field diaphragm to compensate for the parallax as well as loss of field area, which is always present at close range. The focusing mount further contains a bayonet for the purpose of locking the bayonet tube of the LEICA lens 50 mm. in position.

Care should be taken that upon focusing only those contours are used, which are located in the center of the object area. In order to obtain the necessary depth of field, it is suggested that the lenses be stopped down to at least 5.6.



Optical Near-Focusing Device for LEICA M 3

This unit allows to take photographs in the range between $34\frac{21}{32}''$ and $19\frac{19}{32}''$ distance which corresponds to a ratio of reduction between 1:15 and 1:7.5. The size of the object depending on the distance varies from $14\frac{11}{32}'' \times 21\frac{17}{32}''$ to $7\frac{9}{32}'' \times 10\frac{5}{32}''$.

The near-focusing device for the M 3 is fitted to the camera like the interchangeable lenses (red dot facing red dot) and turning it to the right until it locks. The automatic parallax adjustment acts as with ordinary interchangeable lenses and any image reduction is corrected accordingly.

**Depth of Focus Scale and Object Size Table for the
Optical Near-Focusing Device (Circle of Dispersion $1/30$ mm)**

Object Size	Range of Depth of Focus for Stop				Reduction Ratio
	5,6	8	11	16	
	mm	mm	mm	mm	
420 x 630 mm	121	173	237	345	1:17,5
384 x 576 mm	102	145	200	290	1:16
360 x 540 mm	89	128	176	256	1:15
336 x 504 mm	78	112	154	224	1:14
312 x 468 mm	68	97	133	194	1:13
288 x 432 mm	58	83	114	166	1:12
264 x 366 mm	49	70	97	141	1:11
240 x 360 mm	41	59	81	117	1:10
216 x 324 mm	34	48	66	96	1:9
192 x 288 mm	27	38	53	77	1:8
180 x 270 mm	24	34	47	68	1:7,5
168 x 252 mm	21	30	41	60	1:7
156 x 234 mm	18	26	36	52	1:6,5

The optical near-focusing device is supplied in three models, namely, for the ELMAR f/3.5 50 mm. lens, the SUMMITAR f/2 50 mm. lens, and the SUMMICRON f/2 50 mm. lens.

The one for the SUMMITAR can also be used for the old types SUMMAR f/2 50 mm. and HEKTOR 50 f/2.5 mm. lenses.

The optical near-focusing device can be fitted to all LEICA models, except model III g

	Code Word
Optical Near-Focusing Device, chromium plated, for ELMAR 50 mm.	NOOKY
Optical Near-Focusing Device, chromium plated, for SUMMICRON 50 mm.	SOOKY
Optical Near-Focusing Device, chromium plated, for SUMMITAR 50 mm. (SUMMAR or HEKTOR 50 mm.)	NOOKY- HESUM
Optical Near Focusing Device chromium plated for LEICA M3 (for all 5 cm lenses except SUMMARIT)	SOOKY-M

E R N S T L E I T Z G M B H W E T Z L A R
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