

HOW TO ATTACH THE STEREO EQUIPMENT TO YOUR

Leica

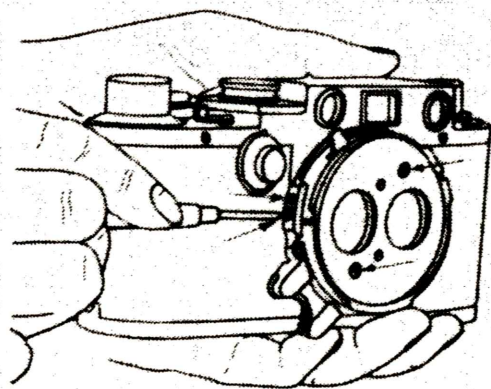
The Leica stereo equipment is made up of two main parts

- (1) the STEMAR stereo lens, and
- (2) the prism attachment

The prism attachment is used on the lens only when taking pictures at a range of ten feet or more.

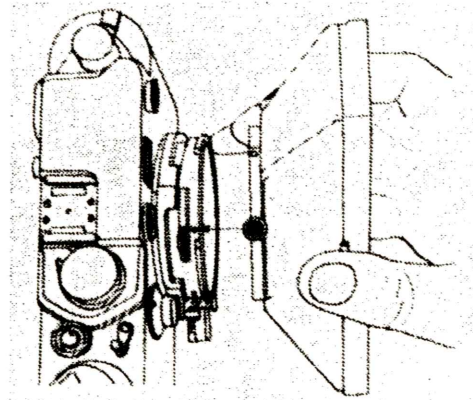
Adjusting the Lens to the Camera

The Leica STEMAR stereo lens can be used with any Leica housing which is equipped with screw-mount for interchangeable lenses.

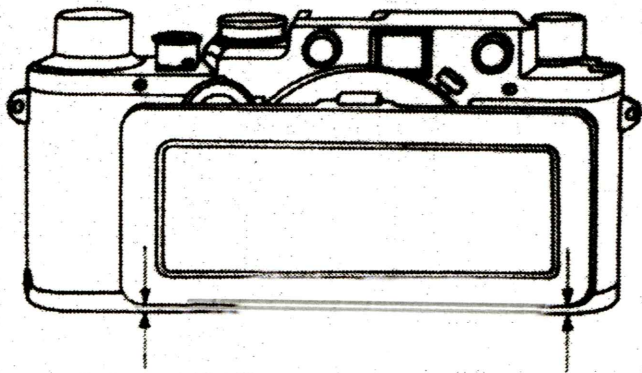


1. Screw STEMAR lens tightly into camera housing in the same manner as with other Leica lenses. Then loosen slightly, about one half turn, the four screws (two on the left side of the lens mount and two on the front lens plate) as shown in illustration on left.

2. Take the prism attachment and hold it in front of the STEMAR lens so that the two red dots (one on the lens mount, the other one on the release button of the prism attachment) as shown in illustration on right are in line. When they are in this position, slip the prism attachment on the STEMAR lens and turn it clockwise until it click-stops.



3. Now align the bottom edge of the prism attachment with the bottom edge of the camera baseplate so that they are parallel with each other (see illustration on right). Then, holding the camera and stereo attachment firmly in your hand, tighten the two screws on the left side of the lens mount. Recheck to see that the base of the prism attachment stayed in line with the bottom edge of the camera baseplate.



4. Now press the release button of the prism attachment, turn it anti-clockwise and

(OVER)

detach it from the STEMAR lens. Finally, tighten the two screws on the front lens plate. Do not force them. Turn each screw gradually and evenly. Your STEMAR lens is now adjusted to your camera housing and is as interchangeable as any other Leica lens.

N O T E:—The STEMAR lens may be easily removed and replaced with any other lens, simply by unscrewing it. But when you again wish to take stereo pictures, couple the prism attachment with your adjusted STEMAR lens, as described in (2), before putting it into your camera housing. Then screw the combined unit into the camera housing until it begins to tighten. Line up the camera housing with the bottom edge of the prism attachment, as previously described, by using the focusing lever (NOT the prism attachment) to bring the housing and prism attachment into parallel position.

Things to Know When Taking Stereo Pictures

1. Leica Stereo pictures (as stereo pictures with any other camera) can only be taken with the camera in horizontal position. The bright vertical line in your viewfinder should, therefore, be brought into a parallel position with other vertical lines in your field of view. The bright dotted line within the picture frame allows for parallax compensation and is the upper limit for objects at $3\frac{1}{2}$ ft. It should likewise be used for subjects from this point to 15 ft. The full bright line in your viewfinder shows the area that will be taken from 15 ft. to infinity.
2. Use your prism attachment only when taking pictures of objects over 10 ft. (red figure on scale) to ensure comfortable stereoscopic viewing when using your stereo viewer or projector. For distances between $3\frac{1}{2}$ ft. and 10 ft. the STEMAR lens only should be used.
3. When the prism attachment is used, the aperture has to be increased by one half stop of normal lightmeter reading (for example, if lightmeter reads 5.6 aperture, the STEMAR lens should be set midway between 5.6 and 4 when the prism attachment is used).
4. The prism attachment itself serves as a partial sunshade but a special lens hood is available when the STEMAR lens only is used.

Ernst Leitz Canada Limited

MIDLAND

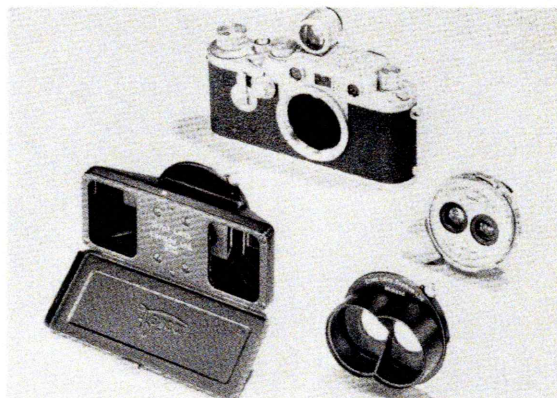
CANADA

LEICA STEREO PHOTOGRAPHY

Nothing surpasses the beauty or fidelity of three dimensional Leica pictures. Also you can enjoy your transparencies with equal pleasure either by projection or hand viewing.

Stereo photography is not limited to color alone. You can take surprising and realistic 3 D pictures in black and white as well. Black and white transparencies may also be projected or enjoyed with a hand viewer, but you will need an intermediate positive transparency.

The Leica system of stereo photography offers you several distinct advantages. You may take both regular and stereo pictures intermixed on the same roll of film in your Leica and also enjoy film economy. The stereo pairs are side by side on the one double frame (2" x 2" slide). Leica color stereo transparencies are returned by the processing laboratory ready for viewing. No cutting, transposing or mounting is needed.



Stemar, Prism Attachment, IIIf and Optical Finder

The Stemar, basis of the Leica stereo system, is interchangeable just as other Leica lenses are. It fits into the lens flange of the camera and couples to its built-in rangefinder. Its two matched 33mm Elmar f/3.5 lenses have an angle of view of 47.5° and an interpupillary separation of 18.4mm. The parallel focusing mount goes from 3.5 feet to infinity and the diaphragm closes down to f/11.

The normal separation of the Stemar objectives gives stereo perspective at distances up to 10 or 15 feet. It avoids the exaggerated effects which you would get if a wider separation were used. The Stemar has both front and rear protection covers.

When photographing at greater distances, you get proper stereo perspective by placing the Stereo Prism in front of the Stemar, increasing the interpupillary separation to 72mm. The Stereo Prism, which is anti-reflection coated, locks on the Stemar with a bayonet catch. You can attach or remove it instantly. The prism has a rear protection cover.

The viewfinder built into the Leica, as well as the separate auxiliary finders, outlines a double frame format. The Leica stereo is single frame (18 x 24mm). Thus, it needs a special viewfinder. The finder fits the accessory clip of the Leica and is of the sports type, outlining the stereo field by a reflected translucent bright line. You allow for parallax by referring to a dotted line visible in the field.

The Stereo viewer for Stemar transparencies has optics that are unique. Proper viewing calls for the picture positions of the stereo pair to be exchanged before they reach your eyes. When you project them, the opposite is true; they should not be transposed. Therefore, to meet both requirements and eliminate the need to cut, transpose and remount the stereo pair, the viewer has prisms which transpose the images optically. A battery-powered light attachment is available as an accessory to make you independent of an outside source of light.

You will find stereo projection equipment in the section describing projectors.

<i>Catalog Number</i>		<i>Item</i>	<i>Retail Price</i>
11,505	OHIKO	Stereo Unit complete with Stemar, Prism and Viewfinder; for use with Leica cameras having threaded lens flange.....	\$294.00 *
11,500	OISBO	Stemar Stereo Attachment fitting Leica cameras having a threaded lens flange.....	180.00 *
11,515	OHIKO-M	Stereo Unit complete with Stemar, Prism and Viewfinder; for use with Leica cameras having bayonet lens flange.....	297.00 *
11,510	OIASO	Stemar Stereo Attachment fitting Leica cameras having a bayonet lens flange.....	183.00 *
11,520	OIMPO	Stereo Prism fitting Stemar (either 11,500 or 11,510).....	96.00
11,525	OIDYO	Stereo Viewfinder for use with Stemar.....	18.00
12,550	OIGEO	Stereo Lens Hood with bayonet fitting for 33mm Stemar stereo lens....	8.40
11,600	OINRO	Stereo Viewing Unit complete with 5X viewer and light attachment....	49.50
11,605	OIPVO	Stereo Viewer (5X) without light attachment.....	39.90
11,610	OICWO	Light Attachment for Stereo Viewer.....	9.60

* Including Federal Manufacturer's Excise Tax.