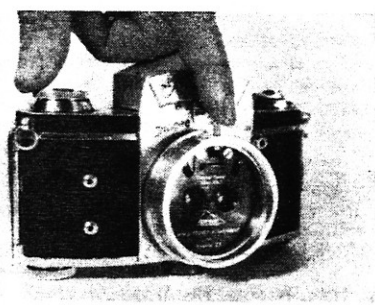


# NEW KIN-DAR HYPO-STEREO ATTACHMENT FOR CLOSEUPS

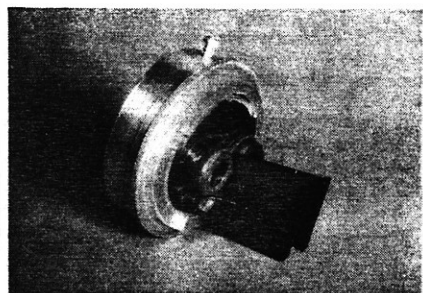
Plenty of articles have been written about making closeup stereo pictures with cameras not specifically designed for closeup 3D. Here's a lens attachment, however, that's tailored especially for closeups, portraits, flowers, insects, medical or dental work. In fact the attachment was specifically designed to work properly at camera to subject distances of 9 inches or less. The Kin-Dar Hypo-Stereo Attachment (\$179.50) will fit in place of the lens on any Exakta V or VX 35mm camera body. Make sure your camera has a lens flange with outside bayonet fittings (late models). This is needed to hold the attachment in place. Old style flanges will be replaced at nominal cost either by the Exakta Co. or by Speedlight Center. It consists of two 35mm f/3.5



Here's the Kin-Dar Hypo-Stereo attachment on the Exakta. The press button resets the automatic diaphragm to maximum opening after exposure.

Steinheil Cassar lenses mounted approximately 15mm apart. A septum (see picture) divides the camera interior into two sections, keeping the images from overlapping. You must install and remove the Kin-Dar Attachment with the Exakta mirror up. The septum contains an automatic diaphragm device which automatically closes down the two lenses to any predetermined stop when the shutter release on the camera is pressed. The camera mirror itself, as it sweeps upwards, controls the automatic diaphragm.

The Kin-Dar attachment does not have any focusing device. Its normal working distance, without supplementary lenses, is



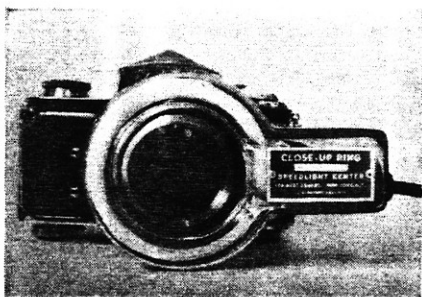
Septum which divides the interior of Exakta camera keeps image from overlapping, also contains the trigger mechanism for automatic diaphragm.

about 9 inches with a field size of approximately  $3\frac{3}{4} \times 5$  inches. With one 300mm accessory achromatic supplementary lens (supplied by Kin-Dar at \$22.50 apiece), the working distance is about  $5\frac{1}{2}$  inches and the field about  $2\frac{1}{8} \times 2\frac{3}{4}$  inches. With two supplementary lenses, working distance is cut down to about 4 inches with a field size of  $1\frac{1}{2} \times 2$  inches; with three supplementary lenses, the distance is  $3\frac{5}{8}$  inches and the field about  $1\frac{1}{4} \times 1\frac{5}{8}$  inches. The supplementary lenses have male and female threads and attach directly to the Hypo-Stereo device and to each other.

In taking the stereo pictures with the attachment you can use either the Penta Prism or the waist level finder for framing and focusing. A celluloid ground glass mask which comes with the device masks off one of the two images. The mask has a center cross to help center and frame your subject.

The stereo pairs when returned from the processor occupy a single 35mm 24 x 36mm frame. You can view these as is with a Leitz Stereo Viewing Unit. However, there's also a special Speedlight Center stereo mount if you want to use a regular 3D viewer or projector. However, you'll have to cut the stereo pairs apart to use the Speedlight Center ultra close-up mount. Inexpensive cardboard mounts are supplied by the Armme Co. These are best used for hand-viewing only.

Pictures made with and without the achromatic supplementary lenses were technically excellent. With a Speedlight Center



For lighting, you can attach a Speedlight Center Closeup Ring and Mighty Light electronic flash unit to the front of the Kin-Dar device.

Closeup Ring and Mighty Light electronic flash unit (see picture) extremely small aperture shots (to f/45) with an amazing amount of depth could be made.

One caution! For proper viewing and projection, do not include too much depth. Backgrounds and foregrounds should be fairly close to the main subject. The Kin-Dar Hypo-Stereo Attachment worked extremely well on a variety of subjects at different distances. Anyone really hep on stereo photography can find with it a new world of stereo right under his nose.

Speedlight Center is the exclusive distributor of both the stereo attachment and the mounts.—NORMAN ROTHSCHILD