

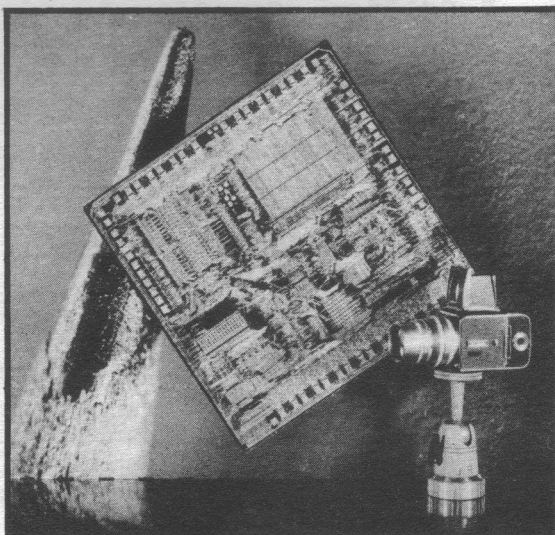
# 16 ADAPTER RINGS COMPUTAR FOR ADAPTING COMPUTAR ENLARGING LENSES TO COPAL SHUTTERS ETC. FOR HI-POWERED MACRO WORK ETC.

## WHOLLY MACRO!

NOW INCREDIBLE MACRO SHOTS MADE EASY ON 4" x 5" OR 8" x 10" STUDIO CAMERAS—USING COMPUTAR ENLARGING LENSES AND PICK OF 10 ADAPTOR RINGS-TO-COPAL SHUTTERS, AND CHOICE OF 6 SUNSHADES AND FILTER HOLDERS!



Bob Weir, famous technical photographer, is shown here holding Computar enlarging lens reverse mounted on Copal #1 shutter face (using #9 adaptor ring).



**BOB WEIR SAYS:**

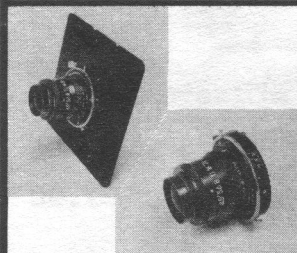
"This amazing photographic print of the Texas Instrument chip leaning against the pencil was produced in the following manner:

A Computar dl 3.5/65mm enlarging lens was reverse mounted on the face of a Copal #1 Shutter. This unusual mounting configuration is permitted by using a #9 special adaptor available for the Computar lenses. The shutter was then mounted on the front of the 4x5 view camera which, with its 20" bellows draw, produced an 8x magnified image of the chip at the film plane.

The chip and pencil were illuminated by a single 750 Watt Tungsten spotlight. To obtain the desired depth of field, several exposures were made between aperture stops of F8 and F11 yielding exposure times running from 1 to 1½ seconds.

The final cibachrome print was made by projecting approximately 80% of the 4x5 chrome with the Computar dl 4.5/105 mm enlarging lens. The print magnification from the chrome was 9½x, therefore, the total magnification from the actual chip to the finished print which produced circuit details so clear to the eye they could actually be read, was 76x magnification."

"With the Computar adaptor rings the equipment for this shot was very easily assembled." The Hasselblad shows picture size.



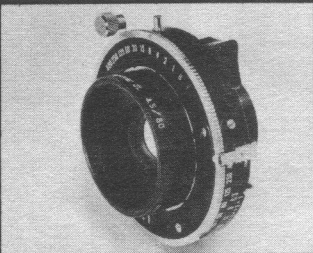
1. Closeup of Computar dl 4.5/105 enlarging lens on face of Copal #1 shutter (using #9 adaptor).



2. To use Computar enlarging lenses in shutters with adaptor rings simply unscrew front and rear elements from barrel.



3. For example: Use #5 Computar adaptor ring set (for front and rear). Screw rings on to the front and rear lens elements. Then screw into front and rear of shutter.



4. Here's how the 4.5/80 Computar dl looks assembled by set #5 Computar adaptor rings in the Copal #1 shutter. This assembly can be mounted into camera or enlarger board by the shutter rear jam ring.

**PRICE BREAK  
DIRECT TO YOU**

**FREE ADAPTER w/LENS PURCHASE**

**SPECIFY WHICH ADAPTOR YOU WANT (FREE)**

#1—Leica Flange #2—A Leica mount extension so that the lenses can be used with a turret system. This accessory is for the 30mm, 50mm, 65mm, 80mm, 90mm and the 50-80 Varifocal. #3—Same as #2 except it is for the 55mm, 105mm and 135mm. #4—Reverse mounting the enlarging lenses to a Leica thread. Screws into the face of the lens. #5—Set of adapters that allows the lenses to be mounted into a #1 shutter. This set is for the 50mm, 65mm, 80mm and 90mm lenses. Simply remove the cells from the enlarging lens barrel and screws into the adapters. #6—Same purpose as #5 except this is to be used with the 30mm, 55mm, 105mm and 135mm lenses. The front cell of these lenses goes directly into the #1 shutter without an adapter. #7—To adapt the lens in barrel to the face of the #1 shutter, i.e. a Leica thread to the 40mm thread. #8—Same as #7 except this mounts to the #3 shutter. #9—For reverse mounting the lenses into the face of a #1 shutter. #10—The same function as #9 except to the #3 shutter.

**COMPUTAR dl**

3.5/65 REG. \$150.00 SPEC. \$106<sup>00</sup>

4.5/105 REG. \$229.00 SPEC. \$120<sup>00</sup>

LIST PRICE OF COPAL #1 SHUTTER ..... \$130.00  
YOUR PRICE... SPECIAL ..... \$ 89.50

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