

# GOERZ

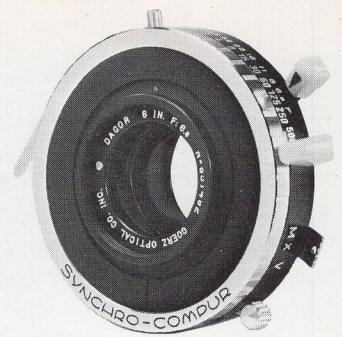
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## INTRODUCTION

A versatile, color-corrected lens, the GOLD DOT DAGOR has established itself as uniquely suited for the field of portrait photography. It is of symmetrical construction, with a front and a rear triplet lens cell. These two lens cells are separable, and may be used either individually or together. Using just one of the lens cells alone provides an increased focal length, while at the same time the image definition is softened — both desirable characteristics for portraiture photography. The GOLD DOT DAGOR is the only lens which can be separated and either the front or the rear lens cell used independently.

Besides portraiture, the GOLD DOT DAGOR is found

## STANDARD BARREL MOUNT

In the barrel mounted configuration, the GOLD DOT DAGOR is available with a focal length as short as 1½ inches. At the largest opening of the lens, a 56 degree full field-of-view can be obtained, which is sufficient to cover an image circle diameter greater than the focal length. At an f/ stop opening of f/45, the image circle diameter is nearly twice the focal length.

The technical specifications for these lenses are given in Chart G. A comparison between the diagonals covered with the lens set for normal photography, (infinity ratio), and the lens set for copy work, (1:1 ratio), is shown in Chart H.

Chart G: Specifications.

	Inches	1½	2-3/8	6	8¼	9½	10¾	12
Focal Length	mm	40	60	152	210	242	273	305
Speed f/		6.8	6.8	6.8	6.8	6.8	6.8	6.8
Smallest f/		22	32	64	45	45	45	45
Recommended Film Size (Inches)	f/6.8 (56°)	1-1/2 x 2-1/8	4 x 5	4 x 5	5 x 8	6-1/2 x 8-1/2	7 x 9	8 x 10
	f/16 (70°)	1-1/4 x 2	1-7/8 x 3	5 x 7	7 x 9	8 x 10	8-3/4 x 10-3/4	10 x 12
(Approximate Angular Field)	f/45 (87°)	—	—	6-1/2 x 8-1/2	10 x 12	11 x 14	12 x 16	14 x 17
Compur		—	—	C-1	C-1			
Shutter Type	Ilex (Acme)	—	—	A-3	A-3	A-4	A-4	
Effective Focal Length (mm)		40 +0.6	60 +0.9	152.4 +2.28	209.5 +3.14	241.3 +3.62	273.0 +4.1	304.8 +4.57
Back Focus (mm)		36.8	55.2	140.2	192.7	224.0	251.2	280.4
Flange Focus (mm)		32.3	52.6	146.6	199.4	228.3	256.6	286.3
A Overall Length (mm)		19.5	19.5	32.0	42.0	48.0	52.5	60.0
B Flange Seat to Rear Mount Distance (mm)		1.75	1.75	8.91	9.02	6.56	7.58	8.54
C Front Lens Diameter (mm)		23.0	23.0	33.0	43.0	49.0	55.5	61.5
D Maximum Barrel Diameter (mm)		30.0	30.0	41.0	51.5	58.0	64.0	71.5
E Flange Outside Diameter (mm)		40.0	40.0	50.0	62.5	71.5	78.0	84.0
F Lensboard Hole Diameter (mm)		27.0	27.0	38.0	48.0	57.0	62.0	69.0
Free Aperture		5.9	8.8	22.4	30.8	35.5	40.2	44.8
Diaphragm Aperture (mm)		5.0	7.3	18.9	26.5	30.2	34.0	37.8
Weight (oz.)		2.0	2.0	7.0	10.0	14.0	18.0	25.0

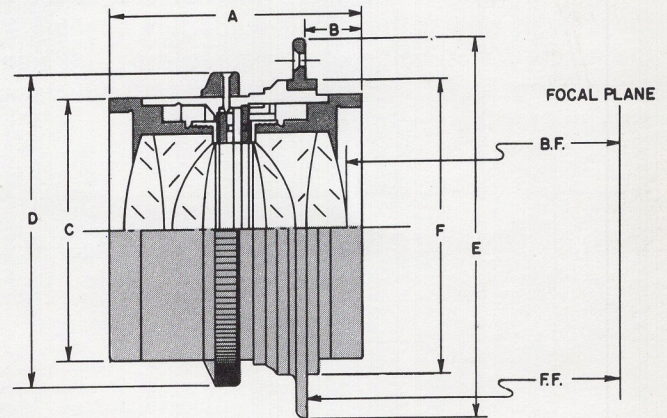
## GOLD DOT DAGOR

in many studio and view cameras used for architectural photography, both exterior and interior, and general copy and enlarging work.

Gold Dot lenses are used extensively in vertical process cameras.

These lenses provide a flat field of sharp definition throughout the entire range of enlargement and reduction.

The magnesium fluoride coating on all Goerz lenses keeps loss of light by reflection to less than 1%, reduces flare to a minimum and assures greater light transmission, brilliance and image contrast.



## SHUTTER MOUNT

Combined with a mechanical shutter, this configuration is sufficiently fast, f/6.8, to be used for sports photography with a high speed film. This shutter mounting is not offered on focal lengths less than 6 inches.

## WIDE ANGLE DAGOR

Adding the multiple focal lengths obtainable from the separable lens cells to the short focal length characteristics of a wide angle lens, the WIDE ANGLE DAGOR is ideal for group portraits.

Available only in a shutter mounted version, the diagonal coverage and recommended shutters are presented in Chart I.

## SINGLE LENS CONFIGURATION

When any of this series of lenses is used in a single cell arrangement, the focal length will increase about 1¾ times, or a 6 inch focal length lens now has an equivalent focal length of 10 inches. The speed of the lens, as well as the effective aperture opening for the actual f/stop setting, will decrease by the same amount, eg. an f/6.8 setting is only a f/13 equivalent aperture for the single cell.

The recommended shutters that are supplied with these lenses are listed in Chart G. Plate, or film, sizes are the same as those shown in the same table for the barrel mounting.

Chart I: Wide Angle Dagor Specifications.

Focal Length	Inches	3-5/8	4-3/8	6½
	mm	92	111	165
Speed f/		8	8	8
Smallest f/ Stop		45	45	45
Recommended Film Size (Inches) (Approximate Angular Field)	f/8 (70°)	3¼ x 4¼	4 x 5	5½ x 7½
	f/22 (80°)	3½ x 4½	4 x 6	7 x 9
	f/45 (90°)	4 x 5	5 x 7	8 x 10
Shutter Type	Compur	C-90	C-1	C-1
	Ilex (Acme)	1	A-3	A-3

Chart H: Diagonal Coverage of Gold Dot Dagor at 1:1 and ∞.

Focal Length	Inches	1½	2-3/8	6	8¼	9½	10¾	12	
	mm	40	60	152	210	242	273	305*	
Plate Circle Diameter	f/6.8	56°	3.60	5.20	12.80	17.54	20.20	22.86	25.52
[Plate Diagonal] at 1:1 Ratio (Inches)	f/16	70°	4.72	7.08	17.20	23.10	26.60	30.10	33.61
	f/45	87°	—	—	21.40	30.77	35.43	40.09	44.79
Plate Circle Diameter	f/6.8	56°	1.80	2.60	6.40	8.77	10.10	11.43	12.76
[Plate Diagonal] at Infinity (Inches)	f/16	70°	2.36	3.54	8.60	11.55	13.30	15.05	16.80
	f/45	87°	—	—	10.70	15.39	17.74	20.04	22.38



The heart of a vertical process camera is the lens. Many vertical cameras use Goerz lenses as standard equipment. Photo Courtesy Kenro Corporation.