

Graflex 27X Zoom Lenses

The **Graflex Incorporated** 27X line of continuous, refractive zoom lenses fit most any day, or near infrared application within the military or high-end commercial markets.



The unique 27X high performance motorized zoom lenses are compact, ruggedized, lightweight and ideal for military and sophisticated commercial applications. The 27X is offered in five basic ratings.

**STANDARD GRAFLEX INC.
MOTORIZED ZOOM LENS
FEATURES:**

- Proven in many moderate environmental applications
- Suitable for day or night sensors
- Motorized ZOOM, FOCUS and IRIS with metal drive gears
- RS-232 / RS-422 Control, or analog
- Custom GUI for PC control
- Optional Boresight Compensation Device (BCD) to maintain Boresight over the zoom range (CS Mount)
- Mounting: 1/4"-20UNC-2A threaded hole
- CE tested and certified

27X ZOOM: 5 RATINGS AVAILABLE							
ZOOM RATIO	RATING EFL & f/no RANGE	LP/mm (Typ)		CCD Format	HFOV		
		WA	Tele		WA	Tele	
27X	9.5 - 256mm, f/1.5 - f3.6	572	428	1/2"	37.2	1.43	
				1/3"	28.3	1.07	
				1/3"	28.3	1.07	
27X	14.2 - 385mm, f/2.2 - f5.2	383	285	2/3"	34.3	1.3	
				1/2"	25.4	0.95	
				1/3"	19.1	0.7	
27X	19 - 512mm, f/3 - f/7.0	286	190	1"	37.2	1.4	
				2/3"	26	0.98	
				1/2"	19.1	0.7	
				1/3"	14.4	0.53	
27X	28 - 770mm, f/4.5 - f10.5	190	113	1"	25.3	0.95	
				2/3"	17.5	0.65	
				1/2"	12.8	0.47	
				1/3"	9.6	0.35	
27X	38 - 1024.0mm f/6 - f14.0	143	84	1"	19.1	0.71	
				2/3"	13.2	0.49	
				1/2"	9.6	0.35	
				1/3"	7.2	0.27	

GENERAL OPTICAL SPECIFICATIONS

Zoom Ratio: 27X
 Focal Length: See Ratings Chart
 Free Aperture: 70mm
 Focus Range: 1.5 Meters to Infinity
 Flange Focus: 17.5mm
 Filter Mount: 77mm X 0.75mm Pitch

Excellent resolution / MTF for all ratings
 Spectral response for day CCD or image intensifiers
 Zero: < .3mrad thru zoom range (w/ BCD)
 Zoom & Focus feedback potentiometers
 Mount: Standard C or CS Mount

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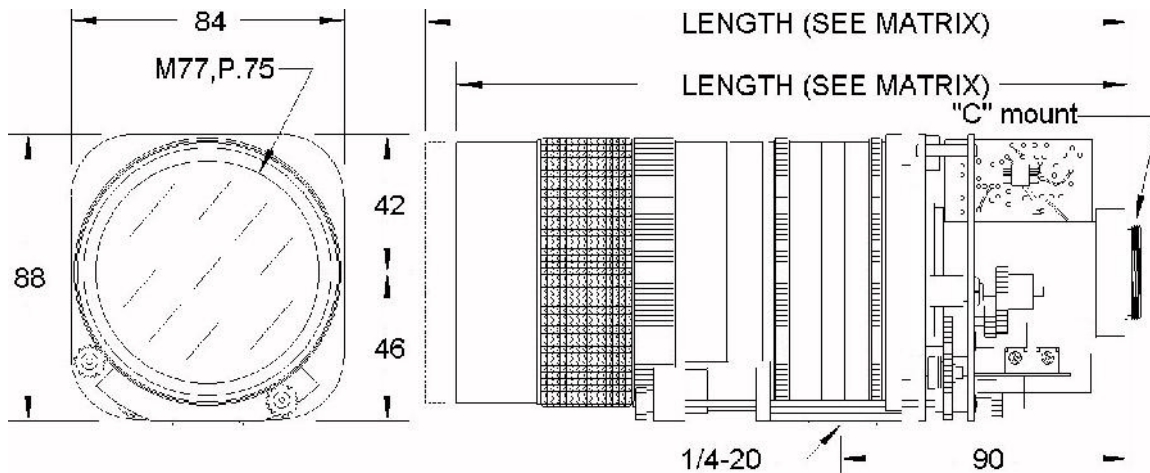
Always on Target

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MECHANICAL DRAWING



MECHANICAL SIZE AND WEIGHT (mm, Kg)

Rating, EFL & F/no	Length w/ Focus		Width	Height	Weight	
	@ Inf	@ Near			w/ Case	No Case
9.5-256.0mm f3.5	216.0	224.0	88.0	90.5	1.88	1.39
14.2-385.0mm f5.2	221.3	229.3	88.0	90.5	1.92	1.43
19.0-512.0mm f7.0	222.5	230.5	88.0	90.5	1.93	1.44
28.5-770.0mm f10.5	226.6	234.6	88.0	90.5	1.95	1.46
38.0-1024.0mm f14.0	228.9	236.9	88.0	90.5	1.98	1.49

ENVIRONMENTAL SPECIFICATIONS

Temperature	Storage -35 thru +71° C*
	Transit -35 thru +71° C*
	Operation -20 thru +50° C*
	(* Contact Factory)
Vibration	Contact Factory
Shock	Contact Factory

ELECTRICAL SPECIFICATIONS

Iris	8-16Vdc @ 30mA
Zoom/Focus	6-12Vdc @ 60mA
54X Extender	6-12Vdc @ 60mA
ALC PCB	3.0Vdc @ 21mA
Control by RS-232, or Potentiometer	
Potentiometer	~9.5 to 0.5 Kohm

ORDERING GUIDE

Please feel free to contact us by phone, or e-mail, to assist with specification of the right lens for your application. Some of the specifications and options that need to be considered are:

- Lens Rating (EFL & F/no)
- With (or without) lens housing (case)
- With (or without) Boresight Compensation Device (BCD), CS Mount Only
- With (or without) DIS-II Digital Zoom Lens Interface for RS232 / RS422 control
- With (or without) override relay for remote selection of auto / manual IRIS
- Environmental requirements – Review with factory
- Optional camera install & adjustment using customer specified camera

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Note: Specifications subject to change without notice.