

# Varifocal Lenses



## Manual Iris, Auto Iris and Manual Zoom Lenses

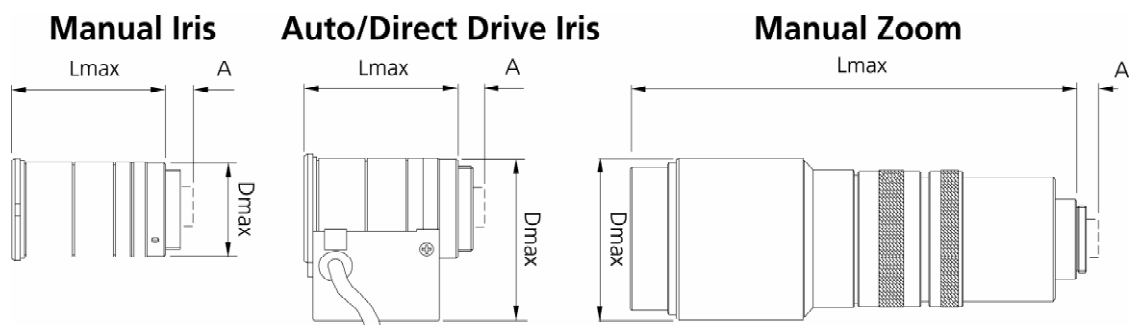
A wide range of manually adjustable focal length lenses, for 1/3", 1/2" and 2/3" cameras, are available from Ernitec.

By using variable focal length lenses stock levels can be reduced and the installation is simplified.

This range includes manual iris, auto/direct drive iris lenses. The auto/direct drive lenses are based on a galvanometric iris. Furthermore a manual zoom lens is available.

## Key features of the Ernitec Varifocal Lenses

- High resolution glass optics.
- Direct Drive iris lenses supplied with Panasonic plug pre-fitted.
- Auto Iris and Direct Drive iris lenses are equipped with a Neutral Density spot filter for indoor and outdoor use.
- Adjustable Focus on all lenses



Please see dimensions on page two

# Specifications

Lens Type	Focal Length (mm)	Mount Format	Max. Apt.	Filter Thread	Horizontal Angle of View			Min. Obj. Dist. (m)	Dimensions (mm) (see drawing page 1)		
					1/3"	1/2"	2/3"		A	Dmax*	Lmax
<b>Manual iris:</b>											
1V3-1/3	1.6-3.4	CS-1/3"	1.4	-	84.3°-180°	-	-	0.2	5.8	42.0	52.1
2V6-1/3*	2.8-6	CS-1/3"	1.2	-	44.2°-88.7°	-	-	0.3	4.0	43.0	60.1
3V8-1/3	3.5-8	CS-1/3"	1.4	-	33°-71.4°	-	-	0.3	4.1	35.0	47.1
4V10-1/2	4-10	CS-1/2"	1.8	-	25.4°-71.9°	37.3°-94.8°	-	0.3	5.0	36.5	48.5
5V40-1/3	5-40	CS-1/3"	1.6	M40.5 x 0.5	6.5°-53.6°	-	-	0.1-1.0*	3.5	42.0	72.5
5V50-1/3*	5-50	CS-1/3"	1.4	-	5.3°-53.4°	-	-	1.0	4.0	41.0	59.2
6V12-1/2	6-12	C-1/2"	1.4	M35.5 x 0.5	23.1°-44.4°	29.5°-56.1°	-	0.3	7.3	40.0	53.7
8V16-2/3	8-16	C-2/3"	1.6	M35.5 x 0.5	17.3°-33.2°	22.9°-44°	30.5°-57.4°	1.0	7.0	40.0	51.0
<b>Auto Iris:</b>											
GA1V3-1/3	1.6-3.4	CS-1/3"	1.4-360	-	84.3°-180°	-	-	0.2	5.8	52.0	52.1
GA2V6-1/3*	2.8-6	CS-1/3"	1.2-64	-	44.2°-88.7°	-	-	0.3	4.0	59.0	60.1
GA3V8-1/3	3.5-8	CS-1/3"	1.4-90	-	33°-71.4°	-	-	0.3	4.1	54.1	47.1
GA3V8-1/3 -/2	3-8	CS-1/3"	1.4-360	-	35.3-93.4	-	-	0.3	4.1	47.8	53.0
GA4V10-1/2	4-10	CS-1/2"	1.8-360	-	25.4°-71.9°	37.3°-94.8°	-	0.3	5.0	52.0	48.5
GA5V40-1/3	5-40	CS-1/3"	1.6-360	M40.5 x 0.5	6.5°-53.6°	-	-	0.1-1.0*	3.5	54.0	72.5
GA5V50-1/3*	5-50	CS-1/3"	1.4-185	-	5.3°-53.4°	-	-	1.0	4.0	57.5	59.2
GA6V12-1/2	6-12	CS-1/2"	1.4-64	M35.5 x 0.5	23.1°-44.4°	29.5°-56.1°	-	0.3	7.3	56.6	54.5
GA8V16-2/3	8-16	CS-2/3"	1.6-360	M35.5 x 0.5	17.3°-33.2°	22.9°-44°	30.5°-57.4°	1.0	7.0	56.6	51.0
<b>Direct Drive:</b>											
GA1V3NA-1/3	1.6-3.4	CS-1/3"	1.4-360	-	84.3°-180°	-	-	0.2	5.8	52.0	52.1
GA2V6NA-1/3*	2.8-6	CS-1/3"	1.2-64	-	44.2°-88.7°	-	-	0.3	4.0	59.0	60.1
GA3V8NA-1/3	3.5-8	CS-1/3"	1.4-90	-	33°-71.4°	-	-	0.3	4.1	54.1	47.1
GA3V8NA-1/3-/2	3-8	CS-1/3"	1.4-360	-	35.3-93.4	-	-	0.3	4.1	47.8	53.0
GA4V10NA-1/2	4-10	CS-1/2"	1.8-360	-	25.4°-71.9°	37.3°-94.8°	-	0.3	5.0	52.0	48.5
GA5V40NA-1/3	5-40	CS-1/3"	1.6-360	M40.5 x 0.5	6.5°-53.6°	-	-	0.1-1.0*	3.5	54.0	72.5
GA5V50NA-1/3*	5-50	CS-1/3"	1.4-185	-	5.3°-53.4°	-	-	1.0	4.0	53.7	59.2
GA6V12NA-1/2	6-12	C-1/2"	1.4-64	M35.5 x 0.5	23.1°-44.4°	29.5°-56.1°	-	0.3	7.3	56.6	54.5
<b>Manual Zoom:</b>											
8Z6-2-1/2	8-48	C-1/2"	1.2	M49.0x0.75	4.9°-30°	7.3°-43°	-	1.0	4.2	52.0	90.0

\*) Aspherical

\*) Wide-tele

\*)excl. finger-screws

Electrical specifications:	GA1V3	GA2V6/3V8	GA4V10/5V40	GA5V50	GA6V12/8V16
Supply voltage	8 – 16 VDC	5 – 15 VDC	8 – 16 VDC	8.5 – 16 VDC	8 – 13 VDC
Max. current consumption	35 mA	35 mA	35 mA	30 mA	30 mA
Video input impedance	> 100 K Ohm	> 10 K Ohm	> 100 K Ohm	> 1 K Ohm	> 5 K Ohm
Driving coil imp. (NA types)	200 Ohm	136 Ohm	190 Ohm	190 Ohm	190 Ohm
Damp coil imp. (NA types)	700 Ohm	630 Ohm	1150 Ohm	1150 Ohm	1150 Ohm
Temperature range	-10° to + 50° C	-10° to + 50° C	-5° to +45°	-10° to +50° C	-10° to +50° C

## Please note:

All Direct Drive iris lenses (-NA types) are prefitted with Panasonic plug.  
All C-mount lenses can be used on CS-mount cameras by adding an Ernitec C/CS-adaptor.

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# ernitec

THE ONE TO WATCH

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