



Varifocal Lenses

- **For 1/3-inch format cameras**
- **Adjustable angle of view**
- **Fixed aperture or manual aperture available**
- **Adjustable focal length between two limits**
- **Autoiris models available**

The Vicon Series of Variable-Focal-Length Lenses are designed for use on 1/3-inch format CCTV cameras. The lenses have an adjustable angle of view, ranging from very-wide-angle to normal, permitting the camera to view the exact area desired.

These lenses eliminate the need for trial-and-error lens fitting and for stocking multiple fixed-focal-length lenses to cover different viewing angles.

Models V2.8-6VFI and V3.5-8VFI-2 (aperture f/1.4) and V5-50VFI and V2.8-12VFI (aperture f/1.3) offer a manual iris, making this lens adjustable for use under various lighting conditions. Lenses are available with CS-G circuitry, Model V2.7-8VF-CS-G, V2.8-12VF-CS-G, V5-50VF-CS-G and V3.5-8VF-CS-G-4, that allow automatic iris operation that responds to cameras featuring built-in autoiris control circuits.

Focal length is infinitely adjustable between the two limits. Optical construction of 10 elements in 7 groups assures sharp, high-contrast images. The lenses are equipped with CS-type mounts.

Notes: *SUPERSEDES PRODUCT SPECIFICATION 813-1105*

Technical Information

Model	Product Code	Format	Iris
V2.8-6VFI	6588	1/3-inch	Adjustable
V2.7-8VF-CS-G	6589-10	1/3-inch	CS-G autoiris
V2.8-12VFI	8304	1/3-inch	Adjustable
V2.8-12VF-CS-G	8305	1/3-inch	CS-G autoiris
V3.5-8VFI-2	5827	1/3-inch	Adjustable
V3.5-8VF-CS-G-4	5828	1/3-inch	CS-G autoiris
V5-50VFI	7738	1/3-inch	Adjustable
V5-50VF-CS-G	7731	1/3-inch	CS-G autoiris

Table 1: Varifocal Lenses

Model	Focal Length (mm)	Flange Focal Length in. (mm)	Minimum Focusing Distance ft (m)	Aperture Range (f/)*	Horizontal Angle of View (degrees)	Zoom Ratio	Maximum Thread Projection in. (mm)
					1/3-in.		
V2.8-6VFI	2.8-6	0.49 (12.5)	1.0 (0.3)	1.4 - C	96 - 47.2	2.14X	0.14 (3.5)
V2.7-8VF-CS-G	2.7-8	0.49 (12.5)	1.0 (0.3)	1.0 - 360	100 - 36.2	3X	0.14 (3.5)
V2.8-12VFI	2.8-12	n/a	1.0 (0.3)	1.3 - C	98.2 - 23.8	4.29X	0.14 (3.5)
V2.8-12VF-CS-G	2.8-12	n/a	1.0 (0.3)	1.3 - 360	98.2 - 23.8	4.29X	0.14 (3.5)
V3.5-8VFI-2	3.5-8	0.49 (12.5)	1.3 (0.4)	1.4 - C	77.6 - 35.4	2.286X	0.14 (3.5)
V3.5-8VF-CS-G-4	3.5-8	0.49 (12.5)	1.3 (0.4)	1.4 - 360	77.6 - 35.4	2.286X	0.14 (3.5)
V5-50VFI	5-50	0.49 (12.5)	2.6 (0.8)	1.3 - C	51.8 - 5.6	10X	0.14 (3.5)
V5-50VF-CS-G	5-50	0.49 (12.5)	2.6 (0.8)	1.3 - 360	51.8 - 5.6	10X	0.14 (3.5)

Table 2: Optical Information

Model	Dimensions in. (mm)		Weight lb (kg)	Ambient Temperature Range °F (°C)	Shipping Dimensions H x W x D in. (mm)	Shipping Weight lb (kg)	Shipping Volume in. ³ (cm ³)
	Length	Diameter					
V2.8-6VFI	1.7 (43)	1.3 (33)	0.888 (0.04)	-4 to 122 (-20 to 50)	2.0 x 2.75 x 2.0 (51 x 70 x 51)	0.138 (0.062)	11.0 (180)
V2.7-8VF-CS-G	1.9 (49)	1.7 (43)	0.14 (0.065)	-4 to 122 (-20 to 50)	2.0 x 2.75 x 2.0 (51 x 70 x 51)	0.169 (0.077)	11.0 (180)
V2.8-12VFI	2.2 (56)	1.6 (41)	0.16 (0.07)	-4 to 122 (-20 to 50)	2.75 x 3.1 x 2.25 (70 x 79 x 57)	0.2 (0.09)	19.2 (314)
V2.8-12VF-CS-G	2.2 (56)	2.1 (54)	0.18 (0.08)	-4 to 122 (-20 to 50)	2.75 x 3.1 x 2.25 (70 x 79 x 57)	0.24 (0.1)	19.2 (314)
V3.5-8VFI-2	1.85 (47)	1.3 (33)	0.084 (0.038)	-4 to 122 (-20 to 50)	2.0 x 2.75 x 2.0 (51 x 70 x 51)	0.134 (0.061)	11.0 (180)
V3.5-8VF-CS-G-4	1.85 (47)	1.8 (46)	0.106 (0.048)	-4 to 122 (-20 to 50)	3.0 x 2.5 x 2.5 (76 x 64 x 64)	0.161 (0.07)	18.75 (307)
V5-50VFI	2.3 (58)	1.9 (47)	0.47 (0.21)	-4 to 122 (-20 to 50)	2.75 x 4.5 x 2.75 (70 x 114 x 70)	0.425 (0.19)	34.0 (557)
V5-50VF-CS-G	2.3 (58)	1.1 (28)	0.34 (0.15)	-4 to 122 (-20 to 50)	2.5 x 3.25 x 3.0 (64 x 83 x 76)	0.38 (0.17)	24.4 (404)



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