

Lenses: Megapixel Varifocal Quick Selection Guide



Commercial type number	LVF-5005C-S1803	LVF-5005C-S0940	LVF-5005C-S4109	LVF-5005N-S1250
Image format	1/2.5-inch (Sensor diagonal 7.2 mm)	1/2.5-inch (Sensor diagonal 7.2 mm)	1/1.8-inch	1/1.8-inch
Optical resolution	5 Megapixels	5 Megapixels	5 Megapixels	5 Megapixels
Zoom	-	-	-	-
Focal length	1.8 – 3 mm	9 – 40 mm	4.1 – 9 mm	12 – 50 mm
Iris range (visible)	F1.8 to F7.4	F1.5 to F7.4	F1.6 to F8	F1.8 to T360
IR iris range	same as visible	same as visible	same as visible	-
Minimal object distance	0.5 m (1.64 ft)	2.5 m (8.2 ft)	0.3 m (1 ft)	0.8 m (2.63 ft)
Back focus length (values in air)	8.3 mm (0.33 in)	8.6 mm (wide); 13.19 mm (tele)	12.72 mm (wide), 19.94 mm (tele)	10.19 mm (wide), 10.12 mm (tele)
Flange back distance (values in air)	12.5 mm	12.5 mm	12.5 mm	17.526 mm
Lens mount	CS mount	CS mount	CS mount	C mount
Dimensions	Ø 50 mm x 49.3 mm	Ø 55 mm x 49.3 mm	Ø 62.9 mm (excl. focus and zoom knobs) x 66.6 mm (excluding flange)	Ø 52.4 mm x 89.3 mm
Weight	63 g (0.134 lb)	88 g (0.19 lb)	130 g (0.29 lb)	175 g (0.386 lb)
Temperature range	-10° C to +50° C (+14° F to +122° F)	-10° C to +50° C (+14° F to +122° F)	-10° C to +50° C (+14° F to +122° F)	-10° C to +50° C (+14° F to +122° F)
IR corrected	yes	yes	yes	yes
Iris control	4-pin SR-Iris	4-pin SR-Iris	4-pin SR-Iris	4-pin, DC control
Zoom control	manual	manual	manual	manual
Focus control	manual	manual	manual	manual
Angle of view (HxV)	4:3 mode: 115° x 99° Wide; 88° x 71° Tele 1/3-inch sensor 16:9: 109° x 82° Wide; 82° x 54° Tele 1/2.7-inch sensor 16:9: 116° x 84° Wide; 89° x 57° Tele	4:3 mode: 36° x 27° Wide; 8.5° x 6.3° Tele 1/3-inch sensor 16:9: 33° x 17° Wide; 7.7° x 4.4° Tele 1/2.7-inch sensor 16:9: 37° x 20° Wide; 8.6° x 4.8° Tele	4:3 mode: 100° x 74° Wide; 45° x 33° Tele 1/3-inch sensor 16:9: 73° x 41° Wide; 33° x 19° Tele 1/2.7-inch sensor 16:9: 80° x 44° Wide; 37° x 21° Tele 1/1.8-inch sensor 16:9: 101° x 56° Wide; 46° x 26° Tele	4:3 mode: 133° x 25° Wide; 8° x 6° Tele 1/3-inch sensor 16:9: 24° x 14° Wide; 6° x 3° Tele 1/2.7-inch sensor 16:9: 27° x 16° Wide; 6.7° x 3.8° Tele 1/1.8-inch sensor 16:9: 33° x 19° Wide; 8.3° x 4.7° Tele
MTF on-axis (lp/mm)	NA	NA	NA	NA
MTF off-axis (lp/mm)	NA	NA	NA	NA
Compatible cameras	DINION IP starlight 7000 HD DINION IP starlight 6000 HD DINION IP 5000 HD DINION IP 5000 MP DINION IP 4000 HD	DINION IP starlight 7000 HD DINION IP starlight 6000 HD DINION IP 5000 HD DINION IP 5000 MP DINION IP 4000 HD	DINION IP starlight 8000 MP DINION IP starlight 7000 HD DINION IP starlight 6000 HD DINION IP 5000 HD DINION IP 5000 MP DINION IP 4000 HD	DINION IP starlight 8000 MP DINION IP starlight 7000 HD DINION IP starlight 6000 HD DINION IP 5000 HD DINION IP 5000 MP DINION IP 4000 HD

Lenses: Ultra HD Megapixel Quick Selection Guide



Commercial type number	LVF-8008C-P0413	LFF-8012C-D35	LFF-8012C-D50	LVF-5003C-P2713
Image format	1/1.8-inch	2/3-inch	2/3-inch	1/2.7"
Optical resolution	-	-	-	-
Zoom	-	N.A	-	-
Focal length	4 – 13 mm	35 mm	50 mm	2.7-13 mm
Iris range (visible)	F1.5 to close	F1.8, F2.8, F4, F8, F16	F2, F2.8, F4, F8, F16	F1.4 to close
IR iris range	same as visible	same as visible	same as visible	-
Minimal object distance	0.3 m (1 ft)	1 m (3.3 ft)	2 m (6.56 ft)	0.3 m (1 ft)
Back focus length (values in air)	10.209 mm	14.3 mm (0.56 in)	-	-
Flange back distance (values in air)	12.5 mm	17.526 mm	14.8 mm (0.58 in)	-
Lens mount	CS-mount	C-mount	C-mount	CS-mount
Dimensions	Ø 65 x 93 mm	Ø 53 x 47 mm	Ø 54 x 47 mm	Ø 47 mm (excluding focus and zoom knobs and iris block) x 75.11 mm
Weight	172 g (0.38 lb)	149 g (0.33 lb)	155 g (0.34 lb)	87 g (0.19 lb)
Temperature range	-10° C to +50° C (+14° F to +122° F)	-10° C to +50° C (+14° F to +122° F)	-10° C to +50° C (+14° F to +122° F)	-10° C to +50° C (+14° F to +122° F)
IR corrected	yes	yes	yes	yes
Iris control	P-iris stepping motor (120 steps)	manual	manual	P-iris stepping motor
Zoom control	manual	-	-	Rotational ring and locking screw
Focus control	manual	manual	manual	Rotational ring and locking screw
Angle of view (HxV)	12MP mode (4:3): Wide: 90° x 67°; Tele: 29° x 21° 4K UHD mode (16:9): Wide: 86° x 48°; Tele: 27° x 15°	12MP mode (4:3): 9.8° x 7.4° 4K UHD mode (16:9): 9.4° x 5.3°	12MP mode (4:3): 6.8° x 5.1° 4K UHD mode (16:9): 6.6° x 3.7°	1/3-inch sensor (16:9) - Wide: 113 x 60° Tele: 24.3 x 13.8° 1/2.7-inch sensor (16:9) - Wide: 126 x 66° Tele: 26.7 x 15.2° 1/2.8 inch sensor (16:9) - Wide: 122 x 64° Tele: 25.9 x 14.7°
MTF on-axis (lp/mm)	NA	NA	NA	NA
MTF off-axis (lp/mm)	NA	NA	NA	NA
Compatible cameras	DINION IP ultra 8000 MP DINION IP starlight 8000 MP	DINION IP ultra 8000 MP DINION IP starlight 8000 MP DINION IP starlight 7000 HD DINION IP starlight 6000 HD DINION IP 5000 HD DINION IP 5000 MP DINION IP 4000 HD	DINION IP ultra 8000 MP DINION IP starlight 8000 MP DINION IP starlight 7000 HD DINION IP starlight 6000 HD DINION IP 5000 HD DINION IP 5000 MP DINION IP 4000 HD	DINION IP starlight 6000 HD (1/2.8-inch) DINION IP starlight 7000 HD (1/2.8-inch)