Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	1M08750AR-M01	0.878 mm / F 5.0	-	AR	1/11"	Ø 1.81 mm	< 30°	D: 120° H: 95.1° V: 56.2°	2.82 mm	(D) 2.9 x (L) 2.3 mm	< -47.5 %	3P	PDF
	1M08759AR-M01	0.878 mm / F 5.9	-	AR	1/11"	Ø 1.81 mm	< 30°	D: 120° H: 95.1° V: 56.2°	2.82 mm	(D) 2.9 x (L) 2.3 mm	< -47.5%	3P	PDF
	1M09245IRF-M2.2	0.92 mm / F 4.5	M 2.2 × P 0.25	IR	1/9"	Ø 2.1mm	< 25°	D: 140° H: 116° V: 60°	4.8 mm	(D) 2.2 x (L) 4.1 mm	< -59.6%	5G +IR	PDF
	1M10045IRF-M2.2	1.00 mm / F 4.5	M 2.2 × P 0.25	IR	1/9"	Ø 2.2 mm	< 28°	D: 120° H: 98° V: 56.5°	4.86 mm	M 2.2 x (L) 4.1 mm	< -30%	4G + 4E	PDF
	1M10048IR-M3.2	1.00 mm / F 4.8	M 3.2 × P 0.2	IR	1/9"	Ø 2.18 mm	< 31.8°	D: 128° H: 118° V: 76°	3.4 mm	-	<- 40.7%	3P + 1 IR	PDF
	1M11040IRF-M2.6	1.10 mm / F 4.0	M 2.6 x P 0.25	IR	1/9"	Ø 2.2 mm	< 30°	D: 110°	3.3 mm	(D) 2.6 x (L) 2.82 mm	< -37%	3P + IR	PDF
	1M12120IR-M9	1.21 mm / F 2.0	M 9 × P 0.5	IR	-	Ø 4.9 mm	< 17.7°	D: 161° H: 130 V: 100°	11.4 mm	-	-72.5%	1G4P + IR	PDF
	1M13235IR-M2.8	1.32 mm / F 3.5	M 2.8 × P 0.2	IR	1/9"	Ø 2.36 mm	< 32.8°	D: 75° H: 67.2 V: 41.1	2.00 mm	(D) 3.5 mm	< 1%	4P	PDF
	1M13220IR-3.0	1.32 mm / F 2.0	-	IR	1/9"	Ø 2.36 mm	< 33.5°	D: 75.6° H: 63.8° V: 41.6°	2.05 mm	(D) 3.08 x (L) 1.5 mm	< 1%	3P + IR	PDF
	1M13240IR-3.0	1.32 mm / F 4.0	-	IR	1/9"	Ø 2.36 mm	< 33.5°	D: 75.6° H: 63.8° V: 41.6°	2.05 mm	(D) 3.08 x (L) 1.5 mm	< 1%	3P + IR	PDF
	1M13220IR-M3.2	1.32 mm / F 2.0	M 3.2 × P 0.2	IR	1/9"	Ø 2.36 mm	< 33.5°	D: 75.6° H: 68.3°° V: 41.6°	2.05 mm	(D) 3.2 x (L) 1.5 mm	< 1%	3P + IR	PDF

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	1M13240IR-M3.2	1.32 mm / F 4.0	M 3.2 × P 0.2	IR	1/9"	Ø 2.36 mm	< 33.5°	D: 75.6° H: 68.2° V: 41.6°	2.05 mm	(D) 3.2 x (L) 1.5 mm	< 1%	3P + IR	PDF
	1M13220IR-M3.5	1.32 mm / F 2.0	M 3.5 × P 0.2	IR	1/9"	Ø 2.36 mm	< 33.5°	D: 75.6° H: 68.3° V: 41.6°	2.05 mm	(D) 3.5 x (L) 1.5 mm	< 1%	3P + IR	PDF
	1M13240IR-M3.5	1.32 mm / F 4.0	M 3.5 × P 0.2	IR	1/9"	Ø 2.36 mm	< 33.5°	D: 75.6° H: 68.3° V: 41.6°	2.05 mm	(D) 3.5 x (L) 1.5 mm	< 1%	3P + IR	PDF
	1M13320IR-M3.5	1.33 mm / F 2.0	M 3.5 × P 0.2	IR	1/9"	Ø 2.36 mm	< 33.8°	D: 75.1° H: 67.7° V: 41.2°	1.95 mm	(D) 3.5 mm	< 1%	3P + IR	PDF
	1M13340IR-M3.5	1.33 mm / F 4.0	M 3.5 × P 0.2	IR	1/9"	Ø 2.36 mm	< 33.8°	D: 75.1° H: 67.7° V: 41.2°	1.95 mm	(D) 3.5 mm	< 1%	3P + IR	PDF
	1M2351AIR-M5.5	2.35 mm / F 10.0	M 5.5 × P 0.35	IR	1/4"	Ø 5.15 mm	26°	D: 147° H: 105° V: 75°	10.8 mm	(D) 6.5 x (L) 7.73 mm	-27.9%	1G + 3P	PDF
	1M23526IR-M5.5	2.35 mm / F 2.65	M 5.5 × P 0.35	IR	1/4"	Ø 5.15 mm	26°	D: 147° H: 105° V: 75°	10.8 mm	(D) 6.5 x (L) 7.73 mm	-27.9%	1G + 3P	PDF
	1M23540IR-M5.5-53	2.35 mm / F 4.0	M 5.5 × P 0.35	IR	1/4"	Ø 5.15 mm	26°	D: 147° H: 105° V: 75°	10.8 mm	(D) 6.5 x (L) 7.73 mm	-27.9%	1G + 3P	PDF
	1M23570IR-M5.5	2.35 mm / F 7.0	M 5.5 × P 0.35	IR	1/4"	Ø 5.15 mm	26°	D: 147° H: 105° V: 75°	10.8 mm	(D) 6.5 x (L) 7.73 mm	-27.9%	1G + 3P	PDF
	1M23540AR-M7-53 1M23540IR-M7-53	2.35 mm / F 4.0	M 7 x P 0.5	AR IR	1/4"	Ø 5.15 mm	26°	D: 147° H: 105° V: 75°	10.8 mm	(D) 6.5 x (L) 7.73 mm	-27.9%	1G+3P	
	1M33024IRV-M7	3.00 mm / F 2.4	M 7 × P 0.5	IR	1/3" 1/4"	Ø 6.0 mm	26°	(1/3") D: 130° H: 77° V: 55.1°	12.95 mm	(D) 7 x (L) 9.56 mm	-27.9%	5G	

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	1M38020IRC-M10	3.8 mm / F 2.0	M1 0 x P 0.5	IR	1/3"	Ø 6.0 mm	-	D: 92°	10.46 mm	-	-	-	PDF
	1M36045IRV-M7	3.60 mm / F 4.5	M 7 x P 0.35	IR	1/3.6"	-	11°	D: 72° H: 55.5° V: 41°	10.2 mm	(D) 8.0 x (L) 7 mm	-	-	PDF
	1M43025IRF-M12	4.3 mm / F 2.5	M 12 × P 0.5	IR	1/3"	Ø 6.0 mm	18.5°	D: 86°	10.2 mm	M12 x (L) 12 mm	-	4C + 4E	
	1M43025IRV-M12R	4.3 mm / F 2.5	M 12 x P 0.5	IR	1/3"	-Ø 6.0 mm	18°	D: 86°	10.23 mm	(D) 12 x (L) 7.7 mm	-	-	PDF
	1M10028ARV-M12	10.0 mm / F 2.8	M 12 × P 0.5	AR	1/3"	Ø 6.0 mm	-	D: 35° H: 28° V: 21°	16.3 mm	M12 x (L) 12 mm	-	4C + 4E	PDF
	1M15025ARV-M12	15 mm / F 2.5	M 12 × P 0.5	AR	1/2"	Ø 6.0 mm	8.9°	D: 30°	21.6 mm	-	-	-	PDF
	1M80025IRC-M7	8.0 mm / F 2.5	M 7 × P 0.5	IR	1/3"	-	-	D: 45° H: 36.5° V: 27.5°	-	-	-	4C + 4E	

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	2M09445ARF-M4.2	0.94 mm / F 4.5	M 4.2	AR	1.725"	Ø 2.7 mm	< 36.7°	D: 120° H: 103.5 V: 62.9	3.23 mm	(D) 3.8 x (L) 2.61 mm	< 10%	4P + IR	
	2M10645IR-M2.2	1.06 mm / F 4.5	M 2.2 x P 0.25	IR	1/6"	Ø 3.1 mm	< 32°	D: 120°	3.0 mm	(D) 3 x (L) 4.4 mm	< 30%	-	PDF
	2M12522ARF-M3 2M12547ARF-M3 2M12560ARF-M3	1.25 mm / F 2.2 1.25 mm / F 4.7 1.25 mm / F 6.0	M 3 x P 0.2	AR	1/7.25"	Ø 2.66 mm	<37°	D: 88.2° H: 80.6° V: 50.8°	1.81 mm	(D) 3.2 x (L) 1.38 mm	<1.5%	4P	PDF
	2M14540IRF-M4 2M14550IRF-M4 2M14558IRF-M4	1.45 mm / F 4.0 1.45 mm / F 5.0 1.45 mm / F 5.8	M 4.0 x P 0.2	IR	1/7.25"	Ø 2.7 mm	<33°	D: 90.1° H: 79.3° V: 45.7°	3.88 mm		<-17.6%	3G+2MG+IR	PDF
	2M15040AR-M4 2M15040IR-M4	1.50 mm / F 4.0	M 4 × P 0.2	AR IR	1/6"	Ø 3.27 mm	< 32.7°	D: 91° H: 80.3° V: 49.2°	4.0 mm	-	< -5%	4P 4P + IR	
	2M15057AR-M4	1.50 mm / F 5.7	M 4 × P 0.2	AR	1/6"	Ø 3.27 mm	< 32.7°	D: 91° H: 80.3° V: 49.2°	4.0 mm	-	< -5%	4P	PDF
	2M15057IR-M4	1.50 mm / F 5.7	M 4 × P 0.2	IR	1/6"	Ø 3.27 mm	< 32.7°	D: 91° H: 80.3° V: 49.2°	4.0 mm	-	< -5%	4P + IR	PDF
	2M15057IR-M4-H01	1.50 mm / F 5.7	M 4 × P 0.2	IR	1/6"	Ø 3.27 mm	< 32.7°	D: 91° H: 80.3° V: 49.2°	4.0 mm	-	< -5%	4P + IR	With Holder
	2M15080AR-M4 2M15080IR-M4	1.50 mm / F 8.0	M 4 × P 0.2	AR IR	1/6"	Ø 3.27 mm	< 32.7°	D: 91° H: 80.3° V: 49.2°	4.0 mm	-	< -5%	4P 4P + IR	
	2M15080IR-M4	1.50 mm / F 8.0	M 4 × P 0.2	IR	1/6"	Ø 3.27 mm	< 32.7°	D: 91° H: 80.3° V: 49.2°	4.0 mm	-	< -5%	4P + IR	

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	2M15248IR-M4	1.523 / F 4.8	M 4 × P 0.2	IR	1/6"	Ø 3.4 mm	< 32.7°	D: 158° H: 132° V: 65°	6.0 mm	(D) 6.5 × (L) 5.22 mm	< -80.7%	4P + IR	PDF
	2M15260IR-M4	1.523 / F 6.0	M 4 × P 0.2	IR	1/6"	Ø 3.4 mm	< 32.7°	D: 158° H: 132° V: 65°	6.0 mm	(D) 6.5 × (L) 5.22 mm	< -80.7%	4P + IR	PDF
	2M15280IR-M4	1.523 / F 8.0	M 4 × P 0.2	IR	1/6"	Ø 3.4 mm	< 32.7°	D: 158° H: 132° V: 65°	6.0 mm	(D) 6.5 × (L) 5.22 mm	< -80.7%	4P + IR	PDF
	2M15557AR-M4 2M15557IR-M4	1.55 / F 5.7	M 4 × P 0.2	AR IR	1/6"	Ø 3.3 mm	< 33.2°	D: 86.8° H: 78.3° V: 48.4°	3.95 mm	(D) 4.0 × (L) 3.422 mm	< -5%	4P 4P + IR	PDF
	2M15580AR-M4 2M15580IR-M4	1.55 / F 8.0	M 4 × P 0.2	AR IR	1/6"	Ø 3.3 mm	< 33.2°	D: 86.8° H: 78.3° V: 48.4°	3.95 mm	(D) 4.0 × (L) 3.422 mm	< -5%	4P 4P + IR	PDF
	2M15510AR-M4 2M15510IR-M4	1.55 / F 10	M 4 × P 0.2	AR IR	1/6"	Ø 3.3 mm	< 33.2°	D: 86.8° H: 78.3° V: 48.4°	3.95 mm	(D) 4.0 × (L) 3.422 mm	< -5%	4P 4P + IR	PDF
	2M17920ARF-M4.5	1.79 / F 2.0	M 4.5 × P 0.25	AR	1/5.6"	Ø 3.18 mm	< 34.7°	D: 80° H: 72.4° V: 44.7°	2.42 mm	(D) 5.0 × (L) 2.37 mm	< -1%	4P	PDF
	2M18320AR-M4 2M18320IR-M4	1.83 mm / F 2.0	M 4 × P 0.2	AR IR	1/6"	Ø 3.24 mm	< 34.5°	D: 77.3° H: 70.0° V: 42.7°	2.3 mm	-	< 1.5%	3P 3P + IR	
	2M18350AR-M4 2M18350IR-M4	1.83 mm / F 5.0	M 4 × P 0.2	AR IR	1/6"	Ø 3.24 mm	< 34.5°	D: 77.3° H: 70.0° V: 42.7°	2.3 mm	-	< 1.5%	3P 3P + IR	
	2M18380AR-M4	1.83 mm / F 8.0	M 4 × P 0.2	AR	1/6"	Ø 3.24 mm	< 34.5°	D: 77.3° H: 70.0° V: 42.7°	2.3 mm	-	< 1.5%	3P	PDF

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	2M18640IRF-M4	1.86 mm / F 4.0	M 4 x P 0.2	IR	1/6"	Ø 3.0 mm	< 28°	D: 88° H: 75.1° V: 58.4°	3.2 mm	(D) 6.0	< 1.5%	3P + IR	PDF
	2M18650IRF-M4	1.86 mm / F 5.0	M 4 × P 0.2	IR	1/6"	Ø 3.0 mm	< 28°	D: 88° H: 75.1° V: 58.4°	3.2 mm	(D) 6.0	< 1.5%	3P + IR	
	2M18660IRF-M4	1.86 mm / F 6.0	M 4 × P 0.2	IR	1/6"	Ø 3.0 mm	< 28°	D: 88° H: 75.1° V: 58.4°	3.2 mm	-	< 1.5%	3P + IR	
	2M20055IRF-M4	2.0 mm / F 5.5	M 4 × P 0.2	IR	1/4"	Ø 4.5 mm	< 22°	D: 120° H: 105° V: 60°	8 mm	(D) 4 x (L) 5.5 mm	< 35%	4G + IR	PDF
	2M31523IR-M12	3.15 mm / F 2.35	M 12 × P 0.5	IR	1/4"	-	< 12°	D: 146° H: 113° V: 84°	16.57 mm	-	< 14.3%	6G + IR	
	2M38028IRF-M7	3.8 mm / F 2.8	M 7 × P 0.35	IR	1/4"	Ø 4.8 mm	< 15°	D: 66°	4.8 mm	M 7 x (L) 3.8 mm	< -1%	3P + IR	
	2M45A16AR-M12	45 mm / F 1.6	M 12 × P 0.5	AR	1/3"	Ø 6.0 mm	-	D: 6.8°	-	(D) 12 × (L) 47.5 mm	-	-	
	2M25A25AR-M12 2M25A25IR-M12	25 mm / F 2.5	M 12 × P 0.5	AR IR	1/3"	Ø 6.0 mm	-	D: 13.5° H: 10.7° V: 7.8°	31.3 mm	(D) 25 × (L) 23.2 mm	-	4C + 4E 4C + 4E + IR	PDF
	2M39028IRF-M7	3.9 mm / F 2.8	M 7 x P 0.35	IR	1/3"	Ø 5.6 mm	< 25°	D: 70°	5.05 mm	(D) 7.3 × (L) 4.05 mm	< 0.55%	3P + IR	
	2M39060IRF-M7	3.9 mm / F 6.0	M 7 x P 0.35	IR	1/6"	Ø 5.6 mm	< 25°	D: 70°	5.05 mm	(D) 7.3 × (L) 4.05 mm	< 0.55%	3P + IR	

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	2M14140IRF-M3.2	1.418 mm / F 4.0	M 3.2 x P 0.2	IR	1/7.25"	Ø 2.65 mm	< 36.7°	D: 82.7° H: 74.5° V: 45.6°	2.2 mm	(D) 3.2 × (L) 1.7 mm	< 1.5%	4P + IR	PDF
	2M14143IRF-M3.2	1.418 mm / F 4.3	M 3.2 x P 0.2	IR	1/7.25"	Ø 2.65 mm	< 36.7°	D: 82.7° H: 74.5° V: 45.6°	2.2 mm	(D) 3.2 × (L) 1.7 mm	< 1.5%	4P + IR	
	2M14147IRF-M3.2	1.418 mm / F 4.7	M 3.2 x P 0.2	IR	1/7.25"	Ø 2.65 mm	< 36.7°	D: 82.7° H: 74.5° V: 45.6°	2.2 mm	(D) 3.2 × (L) 1.7 mm	< 1.5%	4P + IR	
	2M12547ARF-M3 2M12547IRF-M3	1.25 mm / F 4.7	M 3 x P 0.2	AR IR	1/7.25"	Ø 2.66 mm	< 37°	D: 88.2° H: 80.6° V: 50.8°	1.81 mm	(D) 3.2 × (L) 1.38 mm	< 1.5%	4P 4P + IR	PDF
	2M12522IRF-M3	1.25 mm / F 2.2	M 3 x P 0.2	IR	1/7.25"	Ø 2.66 mm	< 37°	D: 88.2° H: 80.6° V: 50.8°	1.81 mm	(D) 3.2 × (L) 1.38 mm	< 1.5%	4P + IR	PDF
	2M12560ARF-M3	1.25 mm / F 6.0	M3 x P0.2	AR	1/7.25"	Ø 2.66 mm	< 37°	D: 88.2° H: 80.6° V: 50.8°	1.81 mm	(D) 3.2 × (L) 1.38 mm	< 1.5%	4P	PDF
	2M09445ARF-M4.2 2M09445IRF-M4.2	0.941 mm / F 4.7	M 4.2 x P 0.2	AR IR	1/7.25"	Ø 2.7 mm	< 36.7°	D: 120° H: 103.5° V: 62.9°	3.23 mm	(D) 3.8 x (L) 2.61 mm	< 10%	4P 4P + IR	PDF
	2M28820IRF-M3.8	2.88 mm / F 2.0	M 3.8 x P 0.25	IR	1/7"	Ø 3.0 mm	< 27.45°	D: 48.09° H: 42.5° V: 24.3°	3.62 mm	(D) 3.8 × (L) 2.94 mm	< 1.0%	3P + IR	PDF
	2M28848IRF-M3.8	2.88 mm / F 4.8	M 3.8 x P 0.25	IR	1/7"	Ø 3.0 mm	< 27.45°	D: 48.09° H: 42.5° V: 24.3°	3.62 mm	(D) 3.8 × (L) 2.94 mm	< 1.0%	3P + IR	PDF
	2M28860IRF-M3.8	2.88 mm / F 6.0	M 3.8 x P 0.25	IR	1/7"	Ø 3.0 mm	< 27.45°	D: 48.09° H: 42.5° V: 24.3°	3.62 mm	(D) 3.8 × (L) 2.94 mm	< 1.0%	3P + IR	
	2M33020IR-M12	3.3 mm / F 2.0	M 12 x P 0.5	IR	1/2.7"	-	< 16°	D: 138° H: 110° V: 57°	17.05 mm	(D) 14 × (L) 17.05 mm	< -20%	5G + IR	PDF

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	2M44028IRF-M8	4.4 mm / F 2.8	M 8 x P 0.35	IR	1/2.7"	Ø 6.9 mm	< 24.5°	D: 72.5° H: 62.9° V: 48.6°	7.96 mm	(D) 7.5 × (L) 6.91 mm	< -0.6 %	4P + IR	PDF
	2M44028IRF-M12	4.4 mm / F 2.8	M 12 x P 0.5	IR	1/2.7"	Ø 6.9 mm	< 24.5°	D: 72.5° H: 62.9° V: 48.6°	7.96 mm	(D) 7.5 × (L) 6.91 mm	< -0.6 %	4P + IR	M 9 x P 0.5 M 10 x P 0.5 (Optional)

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	3M18022IR-M12	1.8 mm / F 2.2	M 12 × P 0.5	IR	1/2.7" 1/3"	Ø 7.0 mm	24.5°	(1/2.7") D: 128° H: 110° V: 95°	15.5 mm	-	-	4G2P + IR	(1/3") D: 120° H: 110° V: 85°
	3M15A47IR-M9	15.1 mm / F 4.7	M 9 × P 0.5	IR	1/2.7"	Ø 8.3 mm	13.27°	D: 25° H: 21.8° V:12.5°	16 mm	-	-	-	PDF
	3M24620IRF-M4.5 3M24620ARF-M4.5	2.46 mm / F 2.0	M 4.5 × P 0.25	IR AR	1/6"	Ø 3.34 mm	<28.2°	D: 65.52° H: 58.60° V: 35.34°	3.05 mm		<1%	4P	
	3M24650IRF-M4.5 3M24650ARF-M4.5	2.46 mm / F 5.0	M 4.5 × P 0.25	IR AR	1/6"	Ø 3.34 mm	<28.2°	D: 65.52° H: 58.60° V: 35.34°	3.05 mm		<1%	4P	
	3M25024IRV-M12	2.5 mm / F 2.4	M 12 × P 0.5	IR	1/3"	Ø 6.0 mm	16°	D: 140° H: 88° V: 63°	10.8 mm	-	-	5G + IR	
	3M28628IRF-M5.5 3M28628ARF-M5.5	2.86 mm / F 2.8	M 5.5 x P0.35	IR AR	1/5"	Ø 3.85 mm	<26.1°	D: 64.9° H: 53.8° V: 41.5°	3.38 mm		<1%	3P	
	3M34650IRF-M5.5 3M34650ARF-M5.5	2.86 mm / F 5.0	M 5.5 x P0.35	IR AR	1/5"	Ø 3.85 mm	<26.1°	D: 64.9° H: 53.8° V: 41.5°	3.38 mm		<1%	3P	
	3M31828IR-M12	3.18 mm / F 2.8	M 12 × P 0.5	IR	1/2.7" 1/3"	Ø 7.8 mm	<11.2°	(1/2.7") D: 86° H: 74° V: 60°	15.6 mm	-	< 0.95 %	2G + 2P + IR	
	3M36520IR-M7	3.65 mm / F2.0	M 7 × P 0.35	IR	1/2.7" 1/3"	Ø 7.8 mm	< 11.7° < 11.2°	(1/2.7") D: 120° H: 96.5° V: 52.2°	15.95 mm	-	H: -8.18% V: -28.06%	6G + IR	
	3M37025IRV-M9	3.7 mm / F 2.5	M 9 × P 0.5	IR	1/2.7" 1/3"	Ø 6.0 mm	-	D: 100° D: 80°	13.5 mm	M 9 x (L) 9 mm	-	-	PDF
	3M37025IRV-M10	3.7 mm / F 2.5	M 10 × P 0.5	IR	1/2.7" 1/3"	Ø 6.0 mm	-	D: 100° D: 80°	13.5 mm	M 10 x (L) 9 mm	-	-	PDF
	3M37025ARV-M12 3M37025IRV-M12	3.7 mm / F 2.5	M 12 × P 0.5	AR IR	1/2.7" 1/3"	Ø 6.0 mm	-	D: 100° D: 80°	13.5 mm	M 12 x (L) 9 mm	-	-	PDF

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	3M37025WIRV-M12	3.7 mm / F 2.5	M 12 × P 0.5	IR	1/2.7" 1/3"	Ø 6.0 mm	-	D: 100° D: 80°	13.5 mm	M 12 x (L) 9 mm	-	-	
	3M43024IRF-7-M12	4.3 mm / F 2.4	M 12 × P 0.5	IR	1/2.7" 1/3"	Ø 6.61 mm	-	D: 95° D: 80°	13.4 mm	-	-	5G + IR	
	3M43025IRV-M12	4.3 mm / F 2.5	M 12 x P 0.5	IR	1/2.7” 1/3”	Ø 12 mm	< 24.5°	D: 100° D: 80°	13.51 mm	(D) 12 × (L) 10.51 mm			

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	5M13022ARF-M5.5	1.30 mm / F 2.2	M 5.5 x P 0.25	AR	1/5"	Ø 4.0 mm	< 33.5°	D: 115° H: 95.1° V: 77.5°	4.01 mm	-	< 9.0%	4P COB	PDF
Coming Soon	5M19222ARF-M5	1.92 mm / F 2.2	M 5 x P 0.25	AR	1/5" 1/6"	Ø 3.9 mm	<33.5°	D: 86.5° D: 77.4°	2.95 mm	-	< 1.5%	3P COB	PDF
	5M19920IRF-M5 5M19920ARF-M5	1.99 mm / F 2.0	M 5 x P 0.25	IR AR	1/5"	Ø 3.9 mm	<31.8°	D: 83.4° H: 70.5° V: 55.8°	3.36 mm		< 1.0%	4P COB	
	5M19950IRF-M5 5M19950ARF-M5	1.99 mm / F 5.0	M 5 x P 0.25	IR AR	1/5"	Ø 3.9 mm	<31.8°	D: 83.4° H: 70.5° V: 55.8°	3.36 mm		< 1.0%	4P COB	
	5M19966IRF-M5 5M19966ARF-M5	1.99 mm / F 6.6	M 5 x P 0.25	IR AR	1/5"	Ø 3.9 mm	<31.8°	D: 83.4° H: 70.5° V: 55.8°°	3.36 mm		< 1.0%	4P COB	
	5M52028IRF-M7.5	5.2 mm / F 2.8	M 7.5 × P 0.35	IR	1/2.5"	Ø 6.0 mm	-	D: 60°	6.7 mm	-	< -1.0%	5A + IR	PDF
	5M23422IRF-M4	2.34 mm / F 2.2	M 4 × P 0.25	IR	1/5"	Ø 3.8 mm	< 33°	D: 74.3° H: 63.3° V: 49.89°	3.34 mm	(D) 5.0 mm	2.40 %	3P + IR	PDF
	5M23447IRF-M4	2.34 mm / F 4.7	M 4 × P 0.25	IR	1/5"	Ø 3.8 mm	< 33°	D: 74.3° H: 63.3° V: 49.9°	3.34 mm	-	2.40 %	3P + IR	PDF
	5M30020AR-M9 5M30020IR-M9	3.0 mm / F 2.0 / F 4.8	M 9 x P 0.5	AR IR	1/2.5"	Ø 7.15 mm	< 12°	D: 112.5° H: 90° V: 69°	15.97 mm	(D) 9.4 x (L)13.17 mm	< -21%	6G 6G + IR	PDF
	5M3020IR-M10	3.0 mm / F 2.0	M 10 × P 0.5	IR	1/2.5"	Ø 7.15 mm	< 12°	D: 122° H: 90° V: 69°	15.9 mm	(D) 10 x (L) 11.2 mm	< -21%	6G + IR	PDF
	5M3020IR-M10-01	3.0 mm / F 2.0	M 10 × P 0.5	IR	1/2.5"	Ø 7.15 mm	< 12°	D: 122° H: 90° V: 69°	15.9 mm	(D) 10 x (L) 11.2 mm	< -21%	6G + IR	PDF

	5M3020AR-M12	3.0 mm / F 2.0	M 12 × P 0.5	AR	1/2.5"	Ø 7.15 mm	< 12°	D: 122° H: 90° V: 69°	15.9 mm	(D) 14.0 x (L) 11.2 mm	< -21%	6G	PDF
	5M31228IRF-M6	3.128 mm / F 2.8	M 6.0 x 0.35	IR	1/4"	Ø 4.8 mm	31.2°	D: 70.9° H: 60° V: 46.6°	3.6 mm	M 6 x (L) 3.0 mm	< 1.60%	3P + IR	PDF
	5M35622AR-M9 5M35622IR-M9	3.56 mm / F 2.2	M 9 × P 0.5	AR IR	1/3"	Ø 7.45 mm	< 16°	D: 108° H: 83° V: 60°	14.09 mm	(D) 8 x (L) 9.52 mm	< -41%	5G 5G + IR	PDF AR PDF IR
	5M36520IR-M9	3.65 mm / F 2.0	M 9 × P 0.5	IR	1/2.7"	Ø 8.2 mm	< 11.7°	D: 120° H: 96.5° V: 52.2°	15.91 mm	-	-	6G + 1IR	PDF
	5M34028IRF-7-M6	3.4 mm / F 2.8	M 6 × P 0.35	IR	1/4"	Ø 4.8 mm	28°	D: 65.1° H: 54.5° V: 42.3°	4.2 mm	-	< 1%	4P + IR	
	5M34028IRF-M6	3.4 mm / F 2.8	M 6 × P 0.35	IR	1/4"	Ø 4.8 mm	28°	D: 65.1° H: 54.5° V: 42.3°	4.2 mm	-	< 1%	4P + IR	PDF
	5M34060IRF-M6	3.4 mm / F 6.0	M 6 × P 0.35	IR	1/4"	Ø 4.8 mm	28°	D: 65.1° H: 54.5° V: 42.3°	4.2 mm	-	< 1%	4P + IR	PDF
	5M34014IRF-M6	3.4 mm / F 14	M 6 × P 0.35	IR	1/4"	Ø 4.8 mm	28°	D: 65.1° H: 54.5° V: 42.3°	4.2 mm	-	< 1%	4P + IR	PDF
	5M39618IR-M8.5	3.96 mm / F 1.8	M 8.5 x P 0.25	IR	1/2.5"	Ø 7.39 mm	< 34.5°	D: 78° H: 65° V: 51°	7.3 mm	-	< 1.0%	3P + 1IR	
	5M39959IRF-M5 5M39959ARF-M5	3.99 mm / F 5.9	M 5 x P 0.35	IR AR	1/4"	Ø 4.9 mm	< 30.7°	D: 57.5° H: 32.3° V: 50°	4.1 mm	-	< 1.0%	3P	
	5M45228IRF-M8	4.52 mm / F 2.8	M 8 x P 0.35	IR	1/2.7"	Ø 6.9 mm	< 19°	D: 72.4° H: 64.8° V: 39.1°	7.84 mm	(D) 7.3 × (L) 7.8 mm	< -0.6%	4P + IR	PDF

	5M45250IRF-M8	4.52 mm / F 5.0	M 8 x P 0.35	IR	1/2.7"	Ø 6.9 mm	< 19°	D: 72.4° H: 64.8° V: 39.1°	7.84 mm	(D) 7.3 × (L) 7.8 mm	< -0.6%	4P + IR	
	5M12A50IRF-M12	12 mm / F 5.0	M 12 × P 0.5	IR	1/3"	Ø 7.2 mm	< 15°	D: 22.67°	21.8 mm	(D) 12 × (L) 13.69 mm	< -0.25%	3G	PDF
	5M16A75AR-M12	16 mm / F 7.5	M 12 × P 0.5	AR	1/4"	Ø 8.0 mm	< 13°	D: 16.2° H: 13° V: 9.7°	22.5 mm	(D) 14 x (L) 16.2 mm	-0.67%	-	PDF

Image	Model	EFL (mm) Aperture F No.	Mount Thread	Filter	Sensor	Image Circle	Chief Ray Angle	Field Angle (D x H x V)	Total Track	Diameter (mm)	TV Distortion	Lens Construction	Note
	6M26720IR-M12	2.67 mm / F 2.0	M 12 × P 0.5	IR	1/4"	-	-	D: 104° H: 81° V: 60°	16.76 mm	-	< 8.4%	-	PDF
	8M30022IR-M6	3.0 mm / F 2.2	M 6 × P 0.25	IR	1/4"	Ø 4.95 mm	< 34.4°	D: 76°	3.75 mm	-	< 1.0%	4P + IR	PDF
	8M1432IRB	14 ~ 32 mm / F 4.0	CS / C	IR	1/3"	-	-	D: 25° H: 19.6° V: 14.6°	58.3 mm	(D) 4.9 × (L) 58 mm	-	4G2P + IR	
	12M29022AR-M12 12M29022IR-M12	2.9 mm / F 2.2	M 12 × P 0.5	AR IR	1/3.2"	Ø 6.3 mm	30°	D: 126° H: 95° V: 72°	22.14 mm	(D) 17.5 × (L)19.68 mm	-55%	6G 6G + IR	PDF
	14M23328IR-M12	2.33 mm / F 2.8	M 12 × P 0.5	IR	1/2.7"	Ø 6.77 mm	< 17°	D: 180° H: 149.6° V: 80.9°	29.3 mm	(D) 28 x (L) 26.59 mm	< -66.5%	7G + IR	PDF
	14M32018IR-M12	3.2 mm / F 1.8	M 12 x P 0.5	IR	1/3"	Ø 8.2 mm	< 13.75°	D: 115° H: 98° V: 55°	23 mm	(D) 17 mm	H= -8.49% V= -28.1 %	6G + IR	PDF