

# Mega Pixels CCTV Lenses

# Board Camera Lens

Part No.	TSMY-0614	TSMS-0814	No Photo	TSMS-1214	TSMS-1614	TSMY-2514	TSMY-3520	TSMY-5028
Focal Length	6.0mm	8.0mm	No Photo	12.0mm	16.0mm	25.0mm	35.0mm	50.0mm
Relative Aperture	1.4	1.4	No Photo	1.4	1.4	1.4	2.0	2.8
Iris	1.4-16	1.4-Close	No Photo	1.4-Close	1.4-16	1.4-22	2.0-22	2.8-22
Field of View Angle	57.4°x44.3°	56.5°x43.9°	No Photo	38.3°x26.2°	38.3°x26.2°	20.1°x15.1°	14.33°x10.45°	9.88°x7.49°
Min. Object Distance	250mm	100mm	No Photo	150mm	200mm	250mm	250mm	500mm
Back Focal Length	12.32mm	9.7mm	No Photo	11.7mm	13.1mm	13.13mm	18.06mm	21.20mm
Flange Back	17.526mm	17.526mm	No Photo	17.526mm	17.526mm	17.526mm	17.526mm	17.526mm
Filter Size	manual	manual	No Photo	manual	manual	manual	manual	manual
Mount	C-Mount	C-Mount	No Photo	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Size	M30.5 (P=0.5)	-	No Photo	M27mm (P=0.5)	M25.5mm (P=0.5)	M25.5 (P=0.5)	M25.5 (P=0.5)	M25.5 (P=0.5)
Lens Construction	6G-7E	8G-10E	No Photo	7G-8E	7G-8E	4G-6E	4G-6E	4G-6E
Front Principal Points	19.24mm	19.8mm	No Photo	23.06mm	27.5mm	23.34mm	19.94mm	-9.57mm
Rear Principal points	6.37mm	1.44mm	No Photo	-1.02mm	-3.4mm	-11.94mm	-16.94mm	-28.70mm
Distance of Principal Points	29.13mm	27.6mm	No Photo	13.9mm	5.0mm	-9.98mm	-10.38mm	7.47mm
Optical Whole Length	42.0mm	55.7mm	No Photo	49.7mm	49.0mm	26.30mm	26.50mm	26.60mm
Entrance Pupil	14.88mm	11.2mm	No Photo	11.0mm	10.2mm	17.52mm	20.99mm	24.98mm
Exit Pupil	-21.77mm	226mm	No Photo	-215mm	-940mm	-32.67mm	-33.98mm	-29.56mm
Effective Dia. of Front Lens	25.8mmφ	17.5mmφ	No Photo	15.8mmφ	20.2mmφ	17.00mmφ	17.50mmφ	17.40mmφ
Effective Dia. of Rear Lens	9.0mmφ	14.8mmφ	No Photo	14.1mmφ	15.5mmφ	12.80mmφ	11.80mmφ	8.4mmφ
Lens Movement	0.17mm	0.65mm	No Photo	1.4mm	2.3mm	3.10mm	6.70mm	6.50mm
Metal Front-4 Lens Surface	0.68mm	3.4mm	No Photo	4.8mm	5.0mm	9.60mm	11.47mm	8.23mm
Design Wave Length	540nm	540nm	No Photo	540nm	540nm	540nm	540nm	540nm
TV Distortion	-0.36%	0.60%	No Photo	0.07%	0.05%	-0.28%	-0.02%	-0.20%
Center Resolving Power	100L/mm (F=1.4)	100L/mm	No Photo	100L/mm	100L/mm	140L/mm (F=1.4)	140L/mm (F=2.0)	140L/mm (F=2.8)
Outer Resolving Power	80L/mm (F=1.4)	80L/mm	No Photo	80L/mm	80L/mm	100L/mm (F=1.4)	100L/mm (F=2.0)	100L/mm (F=2.8)
Outer Lighter Volume	54%	30%	No Photo	37%	60%	62%	59%	73%
Operation Temperature	-20°C~50°C	-10°C~+45°C	No Photo	-10°C~+45°C	-10°C~+45°C	-20°C~50°C	-20°C~50°C	-20°C~50°C
Weight	66g	83g	No Photo	75g	81g	45g	55g	55g
Dimensions	32mmφx37.5mm	34.0mmφx41.0mm	No Photo	34.0mmφx37.0mm	33.0mmφx36.5mm	29mmφx31.5mm	29mmφx38.5mm	29mmφx38.5mm

● Resolving Power of Center and Outer Parts is not so difference and has low distortion in compare with regular CCTV Lenses.

Part No.	T S B L - 0 2 5 2 0	T S B L - 0 3 0 2 0	T S B L - 0 4 0 2 0	T S B L - 0 6 0 1 8	T S B L - 0 8 0 2 0
Focal Length	2.5mm	3.0mm	4.0mm	6.0mm	8.0mm
Back Focal Length	5.5mm	5.6mm	5.5mm	8.29mm	8.5mm
Sensor Size	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"	1/3" 1/4"
Max. Aperture	F2.0	F2.0	F2.0	F1.8	F2.0
Field of View Angle	140°-104°(Diagonal)	120°-90°(Diagonal)	80°-64°(Diagonal)	56°-41.3°(Diagonal)	40°-30°(Diagonal)
Dimensions(φxL)	15x18.7mm	14x15.4mm	14x15.7mm	14x15.7mm	14x14.32mm
Weight	6g	5g	6g	5.5g	4.2g
Lens Construction	6G-6E	4G-4E	4G-4E	3G-4E	4G-4E

Part No.	T S B L - 1 2 0 2 2	T S B L - 1 6 0 2 5	T S B L - 2 5 0 2 5	T S B L - 3 5 0 2 0	T S B L - 5 0 0 2 5
Focal Length	12.0mm	16.0mm	25.0mm	35.0mm	50.0mm
Back Focal Length	9.2mm	12.3mm	11.89mm	18.9mm	33.79mm
Sensor Size	1/3" 1/4"	1/3" 1/4"	1/2" 1/3"	1/2" 1/3"	1/2"
Max. Aperture	F2.2	F2.5	F2.5	F2.0	F2.5
Field of View Angle	28°-19°(Diagonal)	19°-15°(Diagonal)	16.9°-13.8°(Diagonal)	12.4°-9.8°(Diagonal)	9.2°(Diagonal)
Dimensions(φxL)	14x11.35mm	14x14.4mm	24.8x22.0mm	25x23.1mm	27x56.77mm
Weight	3g	4.5g	16.5g	15.4g	38.0g
Lens Construction	3G-3E	3G-3E	4G-4E	4G-4E	4G-4E

● Thread Pitch: 12mm dia. P= 0.5mm