

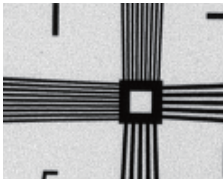
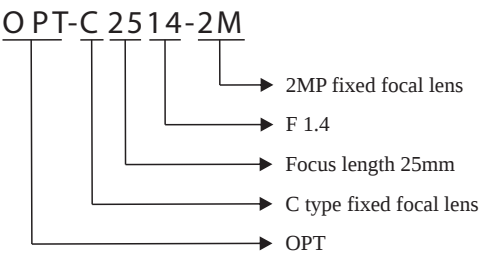
2 MP Fixed-focal Lens



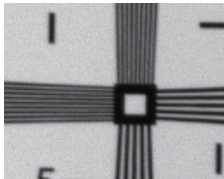
Product Features

- 1 Professional grade design and stable quality
Professional grade optical performance
- 2 High resolution
High resolution optical design, compatible with many common 2 MP industrial camera, suitable for a pixel pitch of 5.5 μm and below and sensor of 2/3" optical format Resolution of 1001 lp/mm
- 3 High uniformity
Obtain clear uniform images thanks to our anti-shading technologies and by using wide-angle lens
- 4 Broad spectrum
Suitable for wavelengths from 400 to 1000 nm supporting the visual spectrum and NIR band

Selection Guide



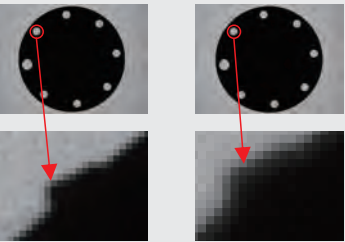
Picture taken with OPT lens



Picture taken with competitor's lens

Applications

Image Comparison in Motor Burr Inspection

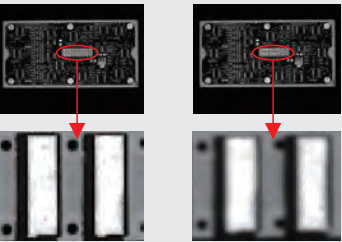


OPT-C2514-2M

Normal lens

Result: The OPT lens provides a clearer image with sharp edges and more detailed resolution compared to a normal lens under the same conditions.

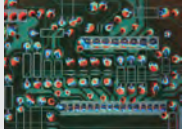
Image comparison: Detection of sheet copper on PCB plates



OPT-C2514-2M

Normal lens

These lens series can be used in many application areas



PCB board solder inspection



Lens detection

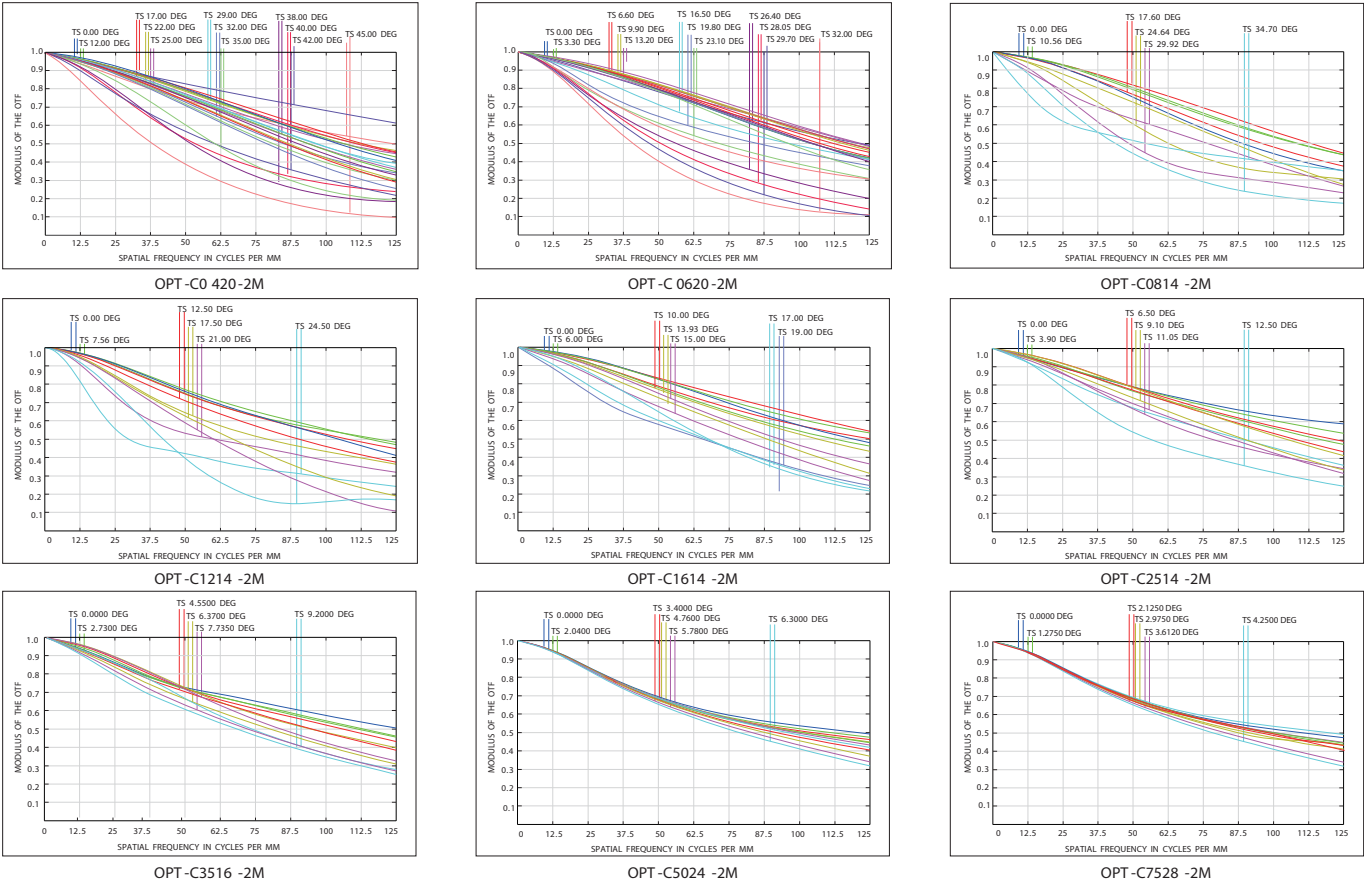


Optical Character Recognition on plastic



Connector pin detection

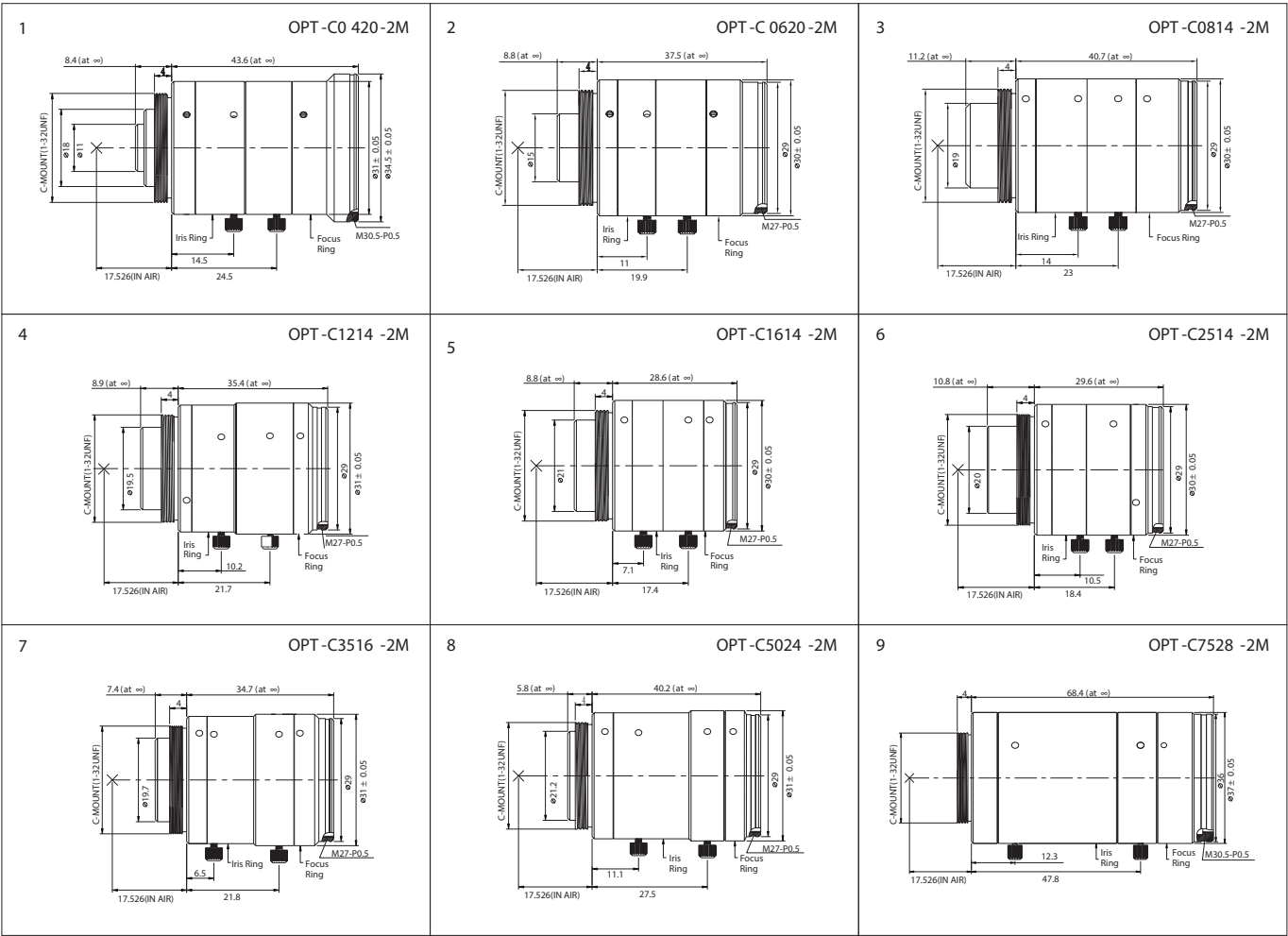
MTF Drawing



Model Table

No.	Model	Focal length [mm]	Aperture range	WD [mm]	Filter Thread [mm]	Distortion	Weight [g]	Matching chip	FOV angle [A°H°V]		
1	OPT-C0 420-2M	4	2.0~16	100-∞	M30.5*P0.5	<1.6%	82	1/3"	72.4°	60.6°	47.2°
								1/2"	88.2°	76°	60.6°
2	OPT-C 0620-2M	6	2.0~16	100-∞	M27 *P0.5	<1.2%	62	1/3"	50.1°	41°	31.4°
								1/2"	63.5°	53°	41°
3	OPT-C0814 -2M	8	1.4~16	100-∞	M27 *P0.5	<0.8%	78	1/3"	39.3°	31.8°	24.3°
								1/2.5"	45.9°	37.2°	28.4°
								1/2"	50.8°	41.5°	31.8°
								2/3"	64.9°	54.5°	42.3°
4	OPT-C1214 -2M	12	1.4~16	100-∞	M27 *P0.5	<0.9%	57	1/3"	27.9°	22.4°	16.9°
								1/2.5"	32.8°	26.6°	20°
								1/2"	37°	29.6°	22.4°
								2/3"	49.1°	40.2°	30.6°
5	OPT-C1614 -2M	16	1.4~16	100-∞	M27 *P0.5	<0.8%	46	1/3"	21.1°	17°	12.7°
								1/2.5"	25°	20°	16°
								1/2"	28.2°	22.4°	16.9°
								2/3"	38.2°	30.8°	23.2°
6	OPT-C2514 -2M	25	1.4~16	180-∞	M27 *P0.5	<0.45%	48	1/3"	13.7°	11°	8.3°
								1/2.5"	16.3°	13°	9.8°
								1/2"	18.2°	14.6°	11°
								2/3"	24.8°	20.1°	15°
7	OPT-C3516 -2M	35	1.6~16	250-∞	M27 *P0.5	<0.25%	52	1/3"	10°	8°	6°
								1/2.5"	11.8°	9.4°	7°
								1/2"	13.2°	10.6°	8°
								2/3"	18°	14.4°	10.8°
8	OPT-C5024 -2M	50	2.4~22	500-∞	M27 *P0.5	<0.1%	63	1/3"	6.9°	5.5°	4.1°
								1/2.5"	8.2°	6.5°	4.9°
								1/2"	9.2°	7.3°	5.5°
								2/3"	12.5°	10°	7.6°
9	OPT-C7528 -2M	75	2.8~32	700-∞	M30.5 *P0.5	<0.1%	157	1/3"	4.56°	3.65°	3.72°
								1/2.5"	8.2°	6.5°	4.9°
								1/2"	6.1°	4.84°	3.62°
								2/3"	8.3°	6.66°	5.0°

Dimensional Drawings [mm]



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Selection reference (with extension tube)

Extension tube	Model	OPT-C0420-2M		OPT-C0620-2M		OPT-C0814-2M		OPT-C1214-2M		OPT-C1614-2M	
	WD	0.1m~∞		0.1m~∞		0.1m~∞		0.1m~∞		0.1mm~∞	
0mm	WD(mm)	100		100		100		150		200	
	1/3"	132.5x99		85x64		64x48		65x49		64x48	
	1/2.5"	157.5x117		101x75.5		76.5x57		79x58.5		77x57.5	
	1/1.8"	169x149		126x94		95x71		98.5x73		96x71.5	
	2/3"	-		150x115.5		114x95		118X98		116x96.5	
	Mag.	0.04116x		0.0643x		0.0836x		0.0809x		0.08013x	
0.5mm	WD(mm)	25	35	43	63	60	90	100	136	130	180
	1/3"	45x33.5	56x42.5	42x31.5	57x42.5	42x31.5	59x44	46.5x35	61x45.5	44x32.5	58.5x44
	1/2.5"	53.5x34	68x51.5	51x38	66x50	48.5x36	70x52	56x41.5	72.5x54	52x39	70.5x52.5
	1/1.8"	67x50	85x66	60x45	82x61	61x46	87x65	69x52	90x67	65x48.5	87x65
	2/3"	-	-	75x63	101.5x85	75x62.5	105x88	84x69	109x90	79x65.5	106x88
	Mag.	0.27	0.18x	0.149x	0.102x	0.139x	0.0928x	0.1214x	0.08929x	0.12328x	0.12329x
1mm	WD(mm)	-	-	19	25	34	52	65	85	95	140
	1/3"	-	-	24x18	29x21.5	26x19.5	37x27.5	32x24	40x30	33x24.5	46.5x34.5
	1/2.5"	-	-	29x21.5	33.5x25	32x24	44.5x33	39.5x29.5	48x37	40x29.5	56x41.5
	1/1.8"	-	-	35x26	43x32	39x29	54x40	49x37	60x45	49x37	70x52
	2/3"	-	-	42x35	50x42.5	55.5x46	77.5x65	60x49.5	74x61	60x50	84.5x70
	Mag.	-	-	0.338x	0.257x	0.24586x	0.160758x	0.1868x	0.1428x	0.1687x	0.1688x
1.5mm	WD(mm)	-	-	-	-	22	31	49	59	80	100
	1/3"	-	-	-	-	20x15	25x18.5	26x19.5	30x22.5	29x21.5	35x26
	1/2.5"	-	-	-	-	24x17.5	30.5x23	32x24	37.5x28	34.5x26	42x31.5
	1/1.8"	-	-	-	-	30x22.5	37x27.5	39x29	45x33.8	43x32	52x40
	2/3"	-	-	-	-	36x27	54x45	43x40	56x47.5	59x48.5	64x57
	Mag.	-	-	-	-	0.37997x	0.26965x	0.2478x	0.2058x	0.2x	0.3x
2mm	WD(mm)	-	-	-	-	-	-	-	-	60	90
	1/3"	-	-	-	-	-	-	-	-	22.5x17	32x24
	1/2.5"	-	-	-	-	-	-	-	-	26.5x20	38.5x28.5
	1/1.8"	-	-	-	-	-	-	-	-	34x25	48x36
	2/3"	-	-	-	-	-	-	-	-	47.5x40.5	58x48
	Mag.	-	-	-	-	-	-	-	-	0.2671x	0.178x
5mm	WD(mm)	-	-	-	-	-	-	-	-	21	35
	1/3"	-	-	-	-	-	-	-	-	10.5x7.8	15.5x11.6
	1/2.5"	-	-	-	-	-	-	-	-	13x9.75	18x13.5
	1/1.8"	-	-	-	-	-	-	-	-	16x12	23x17
	2/3"	-	-	-	-	-	-	-	-	20.5x17	28.5x21.3
	Mag.	-	-	-	-	-	-	-	-	0.8903x	0.8904x

Extension tube	Model	OPT-C2514-2M		OPT-C3516-2M		OPT-C5024-2M		OPT-C7528-2M	
	WD	0.18m~∞		0.25m~∞		0.5m~∞		0.7m~∞	
0mm	WD(mm)	200		320		600		710	
	1/3"	40.5x30		45x33.5		57x42.5		42x31.5	
	1/2.5"	48x36		53.5x40		67x50.5		50x37.5	
	1/1.8"	61x46.1		67x50		84x63		62.5x47	
	2/3"	71x59.5		79.5x66		100x83.5		73x55	
	Mag.	0.12625x		0.2663x		0.0841x		0.1262x	
0.5mm	WD(mm)	160	190	280	300	550	590	598	608
	1/3"	32.5x24.5	38.5x29	39.5x30	42x31.5	52x39	56x41.5	34.5x25.5	35x26
	1/2.5"	39x29	46x34.5	47x35	50.5x37.5	61.5x46	66.5x49.5	41x30.5	42x31.5
	1/1.8"	49x37	58.2x44	58x43	62x46.5	77.5x58	82x61	51.5x39	53x39
	2/3"	58x48	68x57	70x58.5	75x63	91x76	98x82	60.5x50.5	62x46.5
	Mag.	0.1578x	0.132x	0.2885x	0.27696x	0.0917x	0.0855x	0.1514x	0.1266x
1mm	WD(mm)	155	185	230	250	525	585	563	596
	1/3"	31.5x23.5	37.5x28	32.5x24.5	35.5x26.5	49.5x37	55x41.5	32x24	34.5x25.5
	1/2.5"	37.5x28	45x33.5	38.5x28	42x31.5	58.5x44	65.5x49.5	38x28.5	40.5x30.5
	1/1.8"	47.5x35.8	55.5x42	48x36	52x39	73x54.5	81x61	51x38	52x39
	2/3"	57.5x47	67x55.5	58x48.5	63x52	86.5x72.5	98x82	56x42	61x51
	Mag.	0.1629x	0.1365x	0.298x	0.283x	0.096114x	0.08625x	0.16115x	0.127x

Extension tube	Model	OPT-C2514-2M		OPT-C3516-2M		OPT-C5024-2M		OPT-C7528-2M	
	WD	0.18m~∞		0.25m~∞		0.5m~∞		0.7m~∞	
1.5mm	WD(mm)	140	150	180	200	500	580	547	594
	1/3"	28.5x21.5	31x23	25.5x19	28.5x21.5	47x35.5	55x41	31x23	34x25.5
	1/2.5"	34.5x25.5	37x27.5	30.5x22.5	34x25.5	56x42	65x49	37x27.75	40.5x30.5
	1/1.8"	43x32	46x34.5	38x28.5	42x31.8	70x52	80.5x60.5	46.5x34	50.5x38
	2/3"	52x43	55x46	45.5x38	50.5x42	83x69.5	96x80	55x41	60.5x50.5
	Mag.	0.1803x	0.1683x	0.3147x	0.2933x	0.1009x	0.087x	0.16832x	0.127515x
2mm	WD(mm)	130	135	160	170	420	490	524	592
	1/3"	27x20	28x21	22.5x17	24x18	39x29.5	46x34.5	30x22.5	34x25.5
	1/2.5"	32x24	33.5x25	26.5x20	28.5x21.5	46.5x35	55x41	35x26	41x30.5
	1/1.8"	40x30	41x31	33.5x25	35.5x26.5	58x43	68x51	44x33	50x38
	2/3"	48x40	50x41	40x34	42x31.5	69x58	81x68	52x39	60x50
	Mag.	0.1942x	0.187x	0.3205x	0.301x	0.1201x	0.103x	0.1761x	0.1279x
5mm	WD(mm)	85	90	113	120	300	350	430	590
	1/3"	16x12	19.5x14.5	16x12	17x12.5	28x21	33x24.5	24x18	34x25.5
	1/2.5"	22x16.5	23.5x17.5	19x14	20.5x15.5	33x24.5	39x29	28x21	40.5x30.5
	1/1.8"	27x20.5	28.5x21	24x18	25x19	40.5x30.5	48x36	35x26	51x39
	2/3"	33x24.75	35x29	29x21.75	31x25	49.5x41	58x48.5	42.5x32	60x50.5
	Mag.	0.297x	0.2805x	0.4073x	0.3846x	0.1682x	0.1442x	0.1847x	0.1283x
10mm	WD(mm)	39	49	100	108	200	220	340	400
	1/3"	9x6.75	11.5x8.6	15x11	16x12	18x13.5	20x15	18x13.5	21.5x16
	1/2.5"	10.5x7.8	13.5x10	18x13.5	19x14.5	21.5x16.5	24x18	21x15	26x19.5
	1/1.8"	14x10.5	17x12.7	21.5x16	23.5x17.5	27x20	30x22.5	26.5x19.8	32.5x24.3
	2/3"	16.5x12	20x15	26.5x22	28.5x23.5	32.5x27	36x30	31x23	38x28.5
	Mag.	0.6471x	0.5152x	0.5686x	0.5326x	0.2523x	0.2293x	0.2367x	0.1514x
15mm	WD(mm)	25	30	-	-	150	160	285	310
	1/3"	6.5x4.8	7.9x5.9	-	-	13.5x10	14.5x11	14.5x10.8	16x12
	1/2.5"	7.5x5.6	9x6.75	-	-	16x12	17.5x13	17x12.7	19x14.5
	1/1.8"	9.5x7	11.5x8.6	-	-	20.5x15	21x16	21.5x16	23.5x18
	2/3"	10.8x8	13.5x10	-	-	24x20	26x22	25x18.7	28.5x23.5
	Mag.	0.9x	0.84x	-	-	0.3364x	0.3153x	0.2913x	0.2443x
20mm	WD(mm)	-	-	-	-	130	135	252	300
	1/3"	-	-	-	-	11x8.5	12x9	12x9	16x12
	1/2.5"	-	-	-	-	14x10.5	14.5x11	14x10.5	19x14
	1/1.8"	-	-	-	-	17.5x13	18x13.5	18.5x13.8	22x16.5
	2/3"	-	-	-	-	21x17.5	21.5x18	21.5x16	28x23.5
	Mag.	-	-	-	-	0.388x	0.373x	0.3443x	0.2525x
25mm	WD(mm)	-	-	-	-	100	109	224	250
	1/3"	-	-	-	-	8.5x6.5	9.5x7	10x7.5	12.5x9.5
	1/2.5"	-	-	-	-	10.5x7.5	11.5x8.5	12x9	15x11
	1/1.8"	-	-	-	-	12.5x9.3	14x10.5	16x13.6	17x13
	2/3"	-	-	-	-	15.5x13	17x14	18x13.5	22x18.5
	Mag.	-	-	-	-	0.505x	0.463x	0.4208x	0.3029x
30mm	WD(mm)	-	-	-	-	85	92	206	220
	1/3"	-	-	-	-	7x5.5	8x6	9.5x7	10.5x8
	1/2.5"	-	-	-	-	8.5x6.5	9.5x7	11x8.2	12.5x9.5
	1/1.8"	-	-	-	-	10x7.5	12x9	14x10.5	13x11
	2/3"	-	-	-	-	12.5x10.5	14x12	16x12	18.5x15.5
	Mag.	-	-	-	-	0.594x	0.548x	0.459x	0.3443x
35mm	WD(mm)	-	-	-	-	75	78	184	190
	1/3"	-	-	-	-	6x4.5	6.5x5	7.9x5.9	8.5x6.4
	1/2.5"	-	-	-	-	7.5x5.5	8x6	9.4x6.9	10x7.5
	1/1.8"	-	-	-	-	9.5x7	10x7.5	12x9	13x11
	2/3"	-	-	-	-	11x9.5	12x10	14x10.5	15x11
	Mag.	-	-	-	-	0.673x	0.647x	0.412x	0.39x
40mm	WD(mm)	-	-	-	-	-	-	171	174
	1/3"	-	-	-	-	-	-	7x5.25	7.2x5.4
	1/2.5"	-	-	-	-	-	-	8.5x6.3	9x6.75
	1/1.8"	-	-	-	-	-	-	10.8x8.1	11x8.5
	2/3"	-	-	-	-	-	-	12.5x9.3	13x11
	Mag.	-	-	-	-	-	-	0.443x	0.435x
45mm	WD(mm)	-	-	-	-	-	-	165	170
	1/3"	-	-	-	-	-	-	6.5x4.8	7x5.25
	1/2.5"	-	-	-	-	-	-	8x6	8.8x6.6
	1/1.8"	-	-	-	-	-	-	10x7.5	11x8.25
	2/3"	-	-	-	-	-	-	12x9	12.5x9.5
	Mag.	-	-	-	-	-	-	0.6059x	0.541x