

Lens List

※Blue color is new information.

※Parenthesis is temporary information.

2012/3/2 Ver 38

Pixels	Sensor Size	Sensor Maker	Sensor	Lens Composition	Glass Thickness	Focal Length	CRA(H)	FOV (D)	F №	RI IH100%	Effective Image Circle	Mechanical		Screw Size	Study Design ES MP	Holder or VCM	Prototype Sample Shipment	Sample CODE		
												TTL	FB							
CSP																				
VGA	1/6"	Omni	OV-7670	2P	0.7	2.51	21.1°	59.9°	2.8	48.60%	3.08	3.66	0.76	M5.0xP0.35	MP		OK	V6V0250		
2.0Mega	1/5"	Omni	OV-2655	2P	0.7	2.90	26.8°	62.7°	2.8	44.70%	3.90	(3.30)	(0.51)	M5.5xP0.35	MP	Holder 6.5x6.5	(OK) IR in Barrel	25V0150		
				3P	0.7	2.76	24.5°	64.7°	2.8	47.00%	3.70	3.27	0.65	M5.5xP0.25	MP		OK	25X0255		
3.0Mega	1/4"	Omni	OV-3640	4P	0.7	3.89	25.3°	60.0°	2.8	58.20%	4.90	4.98	0.8	M7.0xP0.35	ES		OK	34V0670		
				3P	0.6	2.723	29.0°	66.0°	2.4	46.60%	3.90	3.43	1.109	M5.0xP0.35	Design			35V0135		
	1/5"	Omni	OV-3660	4P	0.6	2.796	27.7°	65.5°	2.4	49.50%	3.90	3.60	0.921	M5.0xP0.35	MP		OK	35V0250		
				3P	0.6	2.76	25.0°	64.7°	2.8	50.00%	3.75	(3.25)	(1.20)	M5.0xP0.25	Design			35V0150		
5.0Mega	1/3.2"	Omni	OV5630	4P	0.61	4.28	25.9°	67.0°	2.8	47.10%	6.00	(4.75)	1.50	(M6.0xP0.35)	Design			53V0160		
				1/4"	Omni	OV-5642	4P	0.7	3.44	27.0°	66.8°	2.8	46.00%	4.70	4.15	0.974	M6.0xP0.35	ES	OK	54V0160
							4P	0.7	3.41	26.0°	66.6°	2.8	40.30%	4.73	4.15	0.75	M7.0xP0.35	ES	OK	54V0370
				4P	0.61	3.16	29.0°	71.4	2.4	40.40%	4.84	4.10	1.06	M6.0xP0.35	Design			54X0660		
14Mega	1/2.3"	Omni	OV14825	5P	0.6	5.091	26.2°	74.4°	2.8	44.00%	8.32	6.636	1.3	M9.0xP0.25	Design			142V0190		
COB																				
VGA	1/11"	Aptina	A-380	2P	0.21	1.35	23.4°	66.1°	2.8	40.88%	1.96	1.72	0.67	M3.5xP0.20	[MP]		OK	V11A0135		
1.0Mega	1/7.0"	Omni	OV-9726	3P	0.2	1.714	25.8°	73.8°	2.4	41.20%	2.87	2.52	0.6	M5.0xP0.35	Design			11V0150		
				4P	0.2	1.95	25.03°	74.6°	2	35.70%	3.34	3.00	0.59	M5.0xP0.35	Design			16A0150		
1.3Mega	1/6"	Aptina	SOC1040	4P	0.3	1.81	29.99°	72.1°	2.4	43.96%	3.00	2.83	0.80	M4.5xP0.25	Design			11V0245		
				4P	0.2	2.015	26.046°	74.6°	2	37.10%	3.24	3.60	0.40	M5.0xP0.25	MP	OK		16A0150		
	1/7.7"	SONY	IMX119	2P	0.3	2.093	23.0°	57.8°	2.8	56.10%	2.70	2.39	0.78	M3.5xP0.35	Design			17S0335		
3P	0.3			2.02	24.8°	60.0°	2.8	57.30%	2.70	2.48	0.75	M3.5xP0.35	Design			17S0435				
2.0Mega	1/4.5"	Aptina	A-2030	3P	0.3	2.75	25.1°	64.8°	2.8	50.50%	3.78	3.35	0.65	M5.5xP0.35	MP	Holder 6.5x6.5	OK IR in Barrel	25A0155		
				3P	0.2	2.931	28.8°	65.9°	2.8	48.90%	3.40	3.00	0.63	M6.0xP0.35	Design			25A0260		
		A-2030	3P	0.2	2.29	30.0°	74.5°	2.8	36.00%	3.80	2.90	0.65	M5.5xP0.25	ES		OK	25X0155			
	3P		0.3	2.851	25.5°	62.9°	2.4	50.50%	3.80	3.45	0.95	M5.5xP0.25	Design			25X0255				
	1/7"	SONY	IMX132	4P	0.21	1.759	31.8	70.2	2.2	43.90%	2.67	2.50	0.6	M4.5xP0.25	Design			27S00145		
	4P			0.21	1.724	30.6	71.2	2.4	32.30%	2.79	2.30	0.6	M4.5xP0.25	Design			27X0145			
					4P	0.21	1.588	31.5	75.5	2.4	30.20%	2.77	2.20	0.6	M4.5xP0.25	Design			27X0245	
3.0Mega	1/4"	Aptina	A-3130	4P	0.3	3.70	25.2°	63.4°	2.8	51.60%	4.84	4.30	1.17	M7.0xP0.35	ES		OK	34K0170		
				3P	0.3	3.48	24.9°	65.1°	2.4	48.10%	4.68	4.00	1.05	M5.50xP0.25	[MP]		OK	34A0255		
		Aptina	A-3130	3P	0.5	3.61	23.7°	64.0°	2.8	52.80%	4.76	4.25	1.29	M6.0xP0.25	[MP]		OK	34A0360		
		Omni Aptina	OV-3640 A-3130	4P	0.3	3.37	24.0°	67.6°	2.8	47.80%	4.68	4.09	0.902	M7.0xP0.35	ES		OK	34A1070		
		Aptina	A-3130	4P	0.3	3.63	24.1°	63.6°	2.8	50.40%	4.78	4.65	1.3	M6.0xP0.25	[MP]		OK	34A1160		
		Aptina	A-3130	4P	0.3	3.50	25.6°	65.3°	2.8	47.40%	4.80	3.37	(0.92)	(M6.0xP0.35)	Design			34A1360		
		Aptina	A-3130	4P	0.3	3.56	25.8°	64.8°	2.8	50.70%	4.84	4.20	(1.1)	(M6.0xP0.25)	[MP]		OK	34A1560		
		Aptina	A-3130	4P	0.3	3.57	25.8°	65.4°	2.8	51.00%	4.87	4.50	1.1	(M6.0xP0.35)	MP	VCM Honhai FV8560AE	OK	34A1660		
	1/5"	Aptina	A-3140	3P	0.3	2.75	25.1°	64.8°	2.8	50.50%	3.78	3.35	0.65	M5.5xP0.35	MP	Holder 6.5x6.5	OK	35A0155		
	4P			0.3	2.774	25.8	66.2	2.4	46.40%	3.88	3.49	0.88	M5.0xP0.25	ES		OK	35X0150			
5.0Mega	1/3.2"	Aptina	A-5130	4P	0.21	4.33	27.5°	66.0°	2.8	50.00%	5.95	4.7	0.7	M7.0xP0.25	Design			53T0170		
				4P	0.3	4.43	25.9°	66.1°	2.8	47.60%	6.04	(5.00)	(1.55)	(M6.0xP0.25)	Design			53A0560		
		Aptina	A-5131	4P	0.3	4.69	25.4°	62.6°	2.8	53.70%	6.00	5.40	1.8	M7.0xP0.35	ES		OK	53A0870		
		Aptina	A-5131	4P	0.21	3.73	28.3°	73.7°	2.8	40.30%	6.00	(4.66)	(0.96)	(M6.5xP0.2)	Design			53A0965		
		Aptina	A-5131	4P	0.3	4.61	24.1°	63.0°	2.8	52.00%	6.00	5.54	1.69	M7.0xP0.35	ES		OK	53A1470		
		Omni	OV5650	4P	0.2	3.98	25.1°	71.1°	2.6	41.40%	6.03	5.00	1.41	M6.0xP0.35	Design			53V0360		
				4P	0.3	4.46	25.3°	65.2°	2.8	49.40%	6.04	5.195	1.645	M6.0xP0.35	MP		OK	54X0160		
				4P	0.21	3.63	33	76.5	2.4	38.20%	5.99	4.54	0.99	M6.5xP0.35	Design			53X0265		
		1/4"	Aptina	A-5140	4P	0.3	3.56	25.8°	64.8°	2.8	50.70%	4.84	4.20	1.1	M6.0xP0.25	[MP]		OK	54A0160	
		4P			0.3	3.50	25.6°	65.3°	2.8	47.40%	4.80	3.37	(0.92)	(M6.0xP0.35)	Design			54T0160		
		Aptina	A-5140	4P	0.3	3.57	25.8°	65.4°	2.8	51.00%	4.87	4.50	1.1	M6.0xP0.35	MP	VCM Honhai FV8560AE VCM TDK TVF-603ACK	OK	54A0260		
		Aptina	A-5140	4P	0.3	3.37	24.0°	67.6°	2.8	47.80%	4.68	4.09	0.902	M7.0xP0.35	Design			54M1070		
		Omni	OV-5642	4P	0.3	3.40	26.9°	65.7°	2.4	50.20%	4.76	4.00	1.00	M6.0xP0.35	Design			54V0260		
		Omni	OV-5647	4P	0.3	3.296	28.892°	69.0°	2.8	44.50%	4.90	3.85	0.83	M6.0xP0.35	Design			54V1060		
		Omni	OV-5647	4P	0.3	3.296	28.816°	69.0°	2.8	44.50%	4.90	3.85	0.83	M6.0xP0.35	Design			54V1160		
		Omni	OV5690	5P	0.21	3.46	25.5°	66.1	2.4	49.60%	4.90	4.39	0.98	M6.0xP0.35	Design			54V1360		
		Omni Aptina	OV-5642 A-5140	4P	0.3	3.63	24.1°	63.6°	2.8	50.40%	4.78	4.65	1.3	M6.0xP0.25	[MP]		OK	54M1160		
		Samsung	SSK4E1GX03	4P	0.3	3.37	26.08°	68.1°	2.8	48.00%	4.85	(3.95)	(1.00)	(M6.0xP0.35)	Design			54SA0160		
		Samsung	4E1	4P	0.3	3.57	25.8°	65.1°	2.8	51.20%	4.84	4.20	1.11	M6.0xP0.35	MP	VCM TDK TVF-603ADA	(OK)	54SA0260		
		ST Micro	VD6926	4P	0.3	3.57	25.8°	65.4°	2.6	49.90%	4.87	(4.50)	1.1	M6.0xP0.35	ES	VCM TDK TVF-603 ACA	OK	54ST0160		
			4P	0.3	3.53	25.3°	66.1°	2.2	38.50%	4.90	4.20	1.1	M6.0xP0.25	ES	VCM TDK VTF-606ABBF	OK	54X0260			
		OV5690	4P	0.3	3.51	25.4°	66.03	2.4	40.00%	4.84	4.20	1.1	M6.0xP0.35	ES		OK	54X0360			
			4P	0.21	3.074	27.8°	72.9°	2.4	40.00%	4.84	4.472	0.92	M6.0xP0.35	MP		OK	54X0460			
			4P	0.3	3.19	26.8	70.8	2.6	42.20%	4.84	3.90	0.97	M6.0xP0.30	Design			54X0560			
			4P	0.2	3.107	29.4	71.3	2.4	42.40%	4.84	3.73	1.11	M5.0xP0.35	Design			54X0650			

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2012/3/2 Ver 38

Pixels	Sensor Size	Sensor Maker	Sensor	Lens Composition	Glass Thickness	Focal Length	CRA(H)	FOV (D)	F №	RI IH100%	Effective Image Circle	Mechanical		Screw Size	Study Design ES MP	Holder or VCM	Prototype Sample Shipment	Sample CODE		
												TTL	FB							
8.0Mega	1/2.9"	Samsung	3H3	5P	0.3	4.07	30.4°	73.7°	2.2	36.00%	6.50	5.2	1.1	M7.0×P0.35	Design			82X0170		
	1/3.2"	Omni Aptina	OV-8820 A-8140	4P	0.3	4.50	24.6°	65.4°	2.8	45.00%	6.00	5.19	1.65	M6.0×P0.35	MP	VCM TDK TVF-653ABB Sankyo LAV6692	OK	83M0160		
		Aptina	A-8140	4P	0.5	3.84	25.9°	72.7°	2.8	40.30%	5.95	4.85	1.5	M7.0×P0.25	Design			83M0470		
	Aptina	A-8140	4P	0.3	4.38	26.1°	66.6°	2.8	43.30%	6.04	(5.00)	(1.45)	(M6.0×P0.25)	Design			83M0660			
	Aptina	A-8140	4P	0.21	3.73	28.3°	73.7°	2.8	40.30%	6.00	(4.66)	(0.96)	(M6.5×P0.2)	Design			83M1065			
	Aptina	A-8140	4P	0.3	4.06	25.3°	71.0°	2.8	41.00%	6.00	(4.88)	(1.37)	(M6.5×P0.35)	Design			83M1565			
	Aptina	A-8140	4P	0.3	4.72	23.8°	62.8°	2.8	52.80%	6.05	(5.45)	(1.89)	(M6.0×P0.35)	ES		OK	83M1660			
	Omni	OV-8820	4P	0.2	4.076	27.36°	70.2°	2.8	45.20%	6.02	5.075	1.531	M6.0×P0.35	Design			83V0360			
	Omni	OV-8820	4P	0.2	3.70	28.4°	75.4°	2.8	37.00%	6.02	4.61	1.35	M6.0×P0.35	Design			83V0460			
	Omni SONY	OV-8820 IMX073	4P	0.3	4.21	24.74°	68.9°	2.8	4.34%	6.00	5.10	1.71	M6.0×P0.35	Design			83V0660			
	Omni SONY	OV-8820/30 IMX105	5P	0.3	4.36	27.8°	66°	2.4	39.50%	6.05	5.00	1.05	M6.5×P0.25	MP		OK	83V0765			
	Omni SONY	OV-8820/30 IMX105	4P	0.2	4.17	27.7°	69.5°	2.8	41.60%	6.10	4.63	1.45	M6.0×P0.35	ES		OK	83V0860			
	Omni SONY	OV-8820/30 IMX105	5P	0.3	3.76	29.4°	74.9°	2.6	39.00%	6.06	4.80	1.05	M6.5×P0.25	ES		OK	83V0965			
	Sony	IMX046	4P	0.3	4.70	25.5°	62.9°	2.8	53.70%	6.04	5.70	1.4	M7.0×P0.30	MP	VCM Sankyo LAV5762, LAV5770	OK	83SO0170			
	Sony	IMX046	4P	0.3	4.06	27.3°	70.5°	2.6	42.00%	6.10	(5.05)	(1.35)	(M6.5×P0.30)	Design			83SO0265			
	Toshiba		4P	0.21	4.33	27.5°	66.0°	2.8	50.00%	5.95	4.7	0.7	M7.0×P0.25	Design			83T0170			
			4P	0.3	3.781	32.002°	74.4°	2.8	35.10%	6.06	4.62	0.89	M6.5×P0.35	Design			83X0165			
	Omni	OV-8820	5P	0.3	4.826	25.1°	61.0°	2.4	54.10%	6.20	5.65	1.6024	M6.5×P0.25	MP		OK	83X0365			
	Omni	OV-8820	5P	0.3	4.021	28.4°	71°	2.4	40.00%	6.14	4.81	0.96	M6.5×P0.25	MP		OK	83X0465			
	sony	IMX105	5P	0.3	4.003	28.8°	71.6°	2.4	43.00%	6.14	4.81	0.96	M6.5×P0.25	MP		OK	83X1065			
			5P	0.3	4.33	28.2°	66.4°	2.4	45.30%	6.05	5.00	1.12	(M6.5×P0.35)	Design			83X0965			
	1/4"	Aptina			4P	0.3	3.57	25.8°	65.4°	2.8	51.00%	4.87	4.50	1.1	M6.0×P0.35	ES		OK	84M0360	
		Aptina			4P	0.21	3.56	25.7°	64.7°	2.6	50.80%	4.80	4.47	1.07	M6.0×P0.35	ES		OK	84A0560	
		Aptina			4P	0.3	3.57	25.7°	64.7°	2.8	52.30%	4.80	4.20	1.1	M6.0×P0.35	ES		OK	84A0660	
						4P	0.3	3.23	28.9°	69.4°	2.4	44.90%	4.80	4.22	1.04	M6.0×P0.35	Design			84X0160
		Omni SONY	OV-8850 IMX111	4P	0.2	3.232	29.9°	70.7°	2.2	37.90%	4.89	4.24	0.86	M6.0×P0.35	Design			84V0160		
						5P	0.3	3.45	30.7°	67.1°	2.4	45.30%	4.92	4.15	1.06	M6.0×P0.25	Design			84X0260
						4P	0.3	3.024	30.5°	74.9°	2.4	38.10%	4.90	3.80	1.15	M6.0×P0.35	Design			84X0360
						4P	0.145	3.085	27.6°	73.7°	2.4	37.40%	4.84	3.89	0.94	M6.0×P0.35	MP		OK	84X0460
		SONY	IMX111	5P	0.2	3.461	30.2°	66.3°	2.2	44.70%	4.894	4.42	0.8	M6.0×P0.35	Design			85SO0160		
		12Mega	1/2.5"	Sony	IMX060	5P	0.3	4.87	25.9°	72.9°	2.8	42.50%	7.45	(6.10)	(1.25)	(M8.5×P0.25)	Design			122SO0185
				Sony	IMX060	5P	0.145	5.03	25.6°	75.5°	2.8	40.60%	8.12	(6.50)	(1.38)	(M8.5×P0.25)	Design			122SO0385
	1/3.2"		Samsung	3L1	5P	0.3	3.81	29.8°	72.4°	2.5	41.90%	6.18	4.71	0.95	M7.0×P0.25	MP		OK	123X0170	
Samsung			3L1	5P	0.3	4.02	28.5°	69.6°	2.4	43.40%	6.14	4.81	0.96	M6.5×P0.25	ES		OK	123X0265		
Samsung			3L1	5P	0.3	4.003	28.6°	70.2°	2.4	45.00%	6.14	4.81	0.96	M6.5×P0.25	ES		OK	123X0365		
13Mega	1/3.2"	SONY	IMX091	5P	0.3	4.02	28.4°	72.1°	2.4	38.50%	6.14	5.20	0.96	M6.5×P0.25	ES		OK	13SO0265		
		SONY	IMX091	5P	0.3	4.003	28.9°	73°	2.4	40.30%	6.14	4.81	0.96	M6.5×P0.25	ES		OK	13X0165		
14Mega	1/2.33"	Omni	OV14825	5P	0.21	5.984	27.8°	65.9°	2.4	44.50%	8.04	7.05	2.02	M8.0×P0.35	ES		OK	14V0180		
16Mega	1/2.5"	Omni	OV16810	5P	0.3	5.556	27.2°	66.0°	2.0	47.80%	7.54	7.454	1.186	M9.0×P0.35	Design			162V0190		