

PL-D Series Machine Vision Cameras														
Camera Model	Mount	M/C/NIR	Sensor	Autofocus	Shutter	Resolution (MP)	Sensor Size	F/R (fps)	Free Running Exposure	HW Trigger/GPIO	Pixel Size	Bits	Dynamic Range	MIN ROI
PL-D7924	C,CS	M/C	SONY IMX541	N	Global	5328 x 4608 (24)	1.2"	17	11 µs- 120 sec	Y	2.74 µm	8 or 12	70 dB	64 x 64
PL-D7920	C,CS	M/C	SONY IMX540	N	Global	4512 x 4512 (20)	1.1"	21	15 µs- 120 sec	Y	2.74 µm	8 or 12	70 dB	64 x 64
PL-D7512	C,CS	M/C	SONY IMX253	N	Global	4096 x 3000 (12)	1.1"	35	20 µs- 6.21 sec	Y	3.45 µm	8 or 12	70 dB	64 x 64
PL-D7912	C,CS	M/C	SONY IMX304	N	Global	4096 x 3000 (12)	1.1"	23	20 µs- 6.21 sec	Y	3.45 µm	8 or 12	70 dB	64 x 64
PL-D757 (HDR)	C,CS	M/C	SONY IMX420	N	Global	3208 x 2200 (7.1)	1.1"	60	27 µs- 120 sec	Y	4.5 µm	8 or 12	72 dB	64 x 64
PL-D797	C,S	M/C	SONY IMX428	N	Global	3208 x 2200 (7.1)	1.1"	51	14 µs- 120 sec	Y	4.5 µm	8 or 12	72 dB	64 x 64
PL-D7620	C	M/C	SONY IMX183	N	Rolling	5472 x 3648 (20)	1"	20	18 µs- 120 sec	Y	2.4 µm	8 or 12	73.6 dB	64 X 64
PL-D759	C,CS	M/C	SONY IMX255	N	Global	4096 x 2160 (9)	1"	48	20 µs- 9.885 sec	Y	3.5 µm	8 or 12	70 dB	64 x 64
PL-D799	C,CS	M/C	SONY IMX267	N	Global	4096 x 2160 (9)	1"	32	20 µs- 9.885 sec	Y	3.5 µm	8 or 12	70 dB	64 x 64
PL-D726	C	M	onsemi IBIS 4	N	Rolling	2208 x 3000 (6.6)	1"	5.3	63 µs- 2 sec	Y	3.5 µm	8 or 10	60 dB	24 x 24
PL-D734	C,CS	M/C/NIR	CMOSIS cmv4000	N	Global	2048 x 2048 (4.2)	1"	90	28 µs- 5 sec	Y	5.5 µm	8 or 10	60 dB	32 x 16
PL-D752	C,S,CS	M/C	SONY IMX174	N	Global	1920 x 1200 (2.3)	1/1.2"	167	19 µs- 5.08 sec	Y	5.86 µm	8 or 12	70 dB	64 x 64
PL-D755-POL	C,S	M	SONY IMX250MZR	N	Global	2448 X 2048 (5)	2/3"	53	20 µs- 120 sec	Y	3.45 µm	8 or 12	70 dB	64 x 64
PL-D755	C,S,CS	M/C	SONY IMX250	Y	Global	2448 x 2048 (5)	2/3"	81	20 µs- 120 sec	Y	3.45 µm	8 or 12	70 dB	64 x 64
PL-D795	C,S,CS	M/C	SONY IMX264	N	Global	2448 x 2048 (5)	2/3"	36	20 µs- 6.1 µs	Y	3.45 µm	8 or 12	70 dB	64 x 64
PL-D753 (HDR)	C,S,CS	M/C	SONY IMX421	Y	Global	1936 x 1464 (2.8)	2/3"	143	10 µs- 120 sec	Y	4.5 µm	8 or 12	72 dB	64 x 64
PL-D732	C,S,CS	M/C/NIR	CMOSIS cmv2000	Y	Global	2048 x 1088 (2.2)	2/3"	170	16 µs- 5 sec	Y	5.5 µm	8 or 10	60 dB	32 x 16
PL-D775	C,S,CS	M/C	MT9P031 / Color	Y	Rolling	2592 x 1944 (5)	1/2.5"	14	100 µs- 2 sec	Y	2.2 µm	8 or 12	60 dB	32 x 8
PL-D7718	C,S,CS	C	onsemi AR1820	Y	Rolling	4912 x 3680 (18)	1/2.3"	14	4 µs- 1.3 sec	Y	1.25 µm	8 or 12	60.5 dB	3376 x 64
PL-X 10GigE Cameras														
PL-X9512	C	C/M	Sony IMX253	N	Global	4096 x 3000 (12.3)	1.1"	65	19 µs- 120 sec	Y	3.45 µm	12	70	64 x 64
PL-X957	C	C/M	Sony IMX420	N	Global	3208 x 2200 (7)	1.1"	91	25 µs- 120 sec	Y	4.5 µm	12	70	64 x 64
PL-X9520 (HDR)	C	C/M	Sony IMX531	N	Global	4512 x 4512 (20)	1.1"	52	7 µs- 120 sec	Y	2.74 µm	12	72	64 x 64
PL-X9524 (HDR)	TFL, C	C/M	Sony IMX530	N	Global	5320 x 4600	1.2"	43	7 µs- 120 sec	Y	2.74 µm	12	70	64 x 64
M Series Microscopy Cameras														
M12-CYL	C	M/C	SONY IMX253	N	Global	4096 x 3000 (12.3)	1.1"	35	20 µs- 6.21 sec	N	3.45µm	12	70 dB	64 x 64
M12B-CYL	C	M/C	SONY IMX304	N	Global	4096 x 3000 (12.0)	1.1"	23	20 µs- 6.21 sec	N	3.45 µm	12	70 dB	64 x 64
M7-CYL	C	M/C	SONY IMX420	N	Global	3208 x 2200 (7)	1.1"	57	27 µs- 120 sec	N	4.5µm	12	72 dB	64 x 64
M20-CYL	C	M/C	SONY IMX183	N	Rolling	5472 x 3648 (20)	1"	20	18 µs- 120 sec	N	2.3 µm	12	73.6 dB	64 x 64
M9-CYL	C	M/C	SONY IMX255	N	Global	4096 x 2160 (8.85)	1"	48	20 µs- 9.885 sec	N	3.45 µm	12	70 dB	64 x 64
M4-CYL	C	M/C	onsemi MT9F002	N	Global	2048 x 2048 (4.2)	1"	90	28 µs- 5 sec	N	5.5 µm	10	60 dB	32 x 16
M5D-CYL	C	M/C	SONY IMX250	N	Global	2448 x 2048 (5.0)	2/3"	81	20 µs- 6.21 sec	N	3.45 µm	12	70 dB	64 x 64
M3-CYL	C	M/C	SONY IMX421	N	Global	1936 x 1464 (3.0)	2/3"	141	10 µs- 120 sec	N	4.5 µm	12	72 dB	64 x 64
M2-CYL	C	M/C	CMOSIS cmv2000	N	Global	2048 x 1088 (2.2)	2/3"	170	16 µs- 5 sec	N	5.5 µm	10	60 dB	32 x 16
M18-CYL	C	C	onsemi AR1820	N	Rolling	4912 x 3680 (18)	1/2.3"	14	4 µs- 1.3 sec	N	1.25 µm	8 or 12	60.5 dB	3376 x 64

Autofocus C-Mount Lens Options					
E12mm	E16mm	E25mm	E35mm	V16mm	V25mm

Autofocus S-Mount Lens Options					
V2.6mm	E6mm	V7.5mm	E8mm	V9.6mm	E12mm
E16mm					

Product Demos	
Autofocus	Resolv4K

TECHSPEC MATRIX

NAVITAR MACHINE VISION LENS GUIDE

1.1" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
PL-D7512	NMV-6M1.1	NMV-8M1.1	NMV-12M1.1	NMV-16M1.1	NMV-25M1.1	NMV-35M1.1	NMV-50M1.1	NA	NA
PL-D7912	NMV-6M1.1	NMV-8M1.1	NMV-12M1.1	NMV-16M1.1	NMV-25M1.1	NMV-35M1.1	NMV-50M1.1	NA	NA
PL-D757 (HDR)	NMV-6M1.1	NMV-8M1.1	NMV-12M1.1	NMV-16M1.1	NMV-25M1.1	NMV-35M1.1	NMV-50M1.1	NA	NA
PL-D797	NMV-6M1.1	NMV-8M1.1	NMV-12M1.1	NMV-16M1.1	NMV-25M1.1	NMV-35M1.1	NMV-50M1.1	NA	NA

1" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
PL-D7620	NMV-6M1.1	NMV-8M1.1	1-24420	1-24421	1-24422	1-24423	1-24424	NMV-75M1*	NA
PL-D759	NMV-6M1.1	NMV-8M1.1	1-24420	1-24421	1-24422	1-24423	1-24424	NMV-75M1*	NA
PL-D799	NMV-6M1.1	NMV-8M1.1	1-24420	1-24421	1-24422	1-24423	1-24424	NMV-75M1*	NA
PL-D726	NMV-6M1.1	NMV-8M1.1	1-24420	1-24421	1-24422	1-24423	1-24424	NMV-75M1*	NA
PL-D725	NMV-6M1	NMV-8M1	NMV-12M1	NMV-16M1	NMV-25M1	NMV-35M1	NMV-50M1	NMV-75M1	NA
PL-D734	NMV-6M1	NMV-8M1	NMV-12M1	NMV-16M1	NMV-25M1	NMV-35M1	NMV-50M1	NMV-75M1	NA

1/1.2" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
PL-D752	NMV-6M1	NMV-8M1	NMV-12M1	NMV-16M1	NMV-25M1	NMV-35M1	NMV-50M1	NMV-75M1	NA

2/3" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
PL-D755	1-19552 (5mm)*	1-19553*	1-24830	1-24831	1-24832	1-24833	NMV-50M23*	NMV-75*	NMV-100*
PL-D795	1-19552 (5mm)*	1-19553*	1-24830	1-24831	1-24832	1-24833	NMV-50M23*	NMV-75*	NMV-100*
PL-D753 (HDR)	NMV-5M23	NMV-8M23	NMV-12M23	NMV-16M23	NMV-25M23	NMV-35M23	NMV-50M23	NMV-75*	NMV-100*
PL-D732	NMV-6	NMV-8	NMV-12	NMV-16	NMV-25	NMV-35	NMV-50	NMV-75	NMV-100
PL-D721	NMV-5M23	NMV-8M23	NMV-12M23	NMV-16M23	NMV-25M23	NMV-35M23	NMV-50M23	NMV-75*	NMV-100*
PL-D722	NMV-5M23	NMV-8M23	NMV-12M23	NMV-16M23	NMV-25M23	NMV-35M23	NMV-50M23	NMV-75*	NMV-100*

1/2.3" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
PL-D7718	1-19552 (5mm)*	1-19553	1-19554	1-19556	1-19557	1-19558	NMV-50M23*	NMV-75*	NMV-100*

1/2.5" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
PL-D775C	1-19552 (5mm)*	1-19553	1-19554	1-19556	1-19557	1-19558	NMV-50M23*	NMV-75*	NMV-100*
PL-D775M	1-19552 (5mm)*	1-19553	1-19554	1-19556	1-19557	1-19558	NMV-50M23*	NMV-75*	NMV-100*

1.1" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
M12B-CYL	NMV-6M1.1	NMV-8M1.1	NMV-12M1.1	NMV-16M1.1	NMV-25M1.1	NMV-35M1.1	NMV-50M1.1	NA	NA

1" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
M20-CYL	NMV-6M1.1	NMV-8M1.1	NMV-12M1.1	NMV-16M1.1	NMV-25M1.1	NMV-35M1.1	NMV-50M1.1	NMV-75M1*	NA
M9-CYL	NMV-6M1.1	NMV-8M1.1	NMV-12M1.1	NMV-16M1.1	NMV-25M1.1	NMV-35M1.1	NMV-50M1.1	NMV-75M1*	NA
M4-CYL	NMV-6M1	NMV-8M1	NMV-12M1	NMV-16M1	NMV-25M1	NMV-35M1	NMV-50M1	NMV-75M1	NA
M5-CYL	NMV-6M1	NMV-8M1	NMV-12M1	NMV-16M1	NMV-25M1	NMV-35M1	NMV-50M1	NMV-75M1	NA

2/3" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
M5D-CYL	1-19552 (5mm)*	1-19553*	1-24830	1-24831	1-24832	1-24833	NMV-50M23*	NMV-75*	NMV-100*
M2-CYL	NMV-5M23	NMV-8M23	NMV-12M23	NMV-16M23	NMV-25M23	NMV-35M23	NMV-50M23	NMV-75*	NMV-100*

1/2" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
M1-CYL	NMV-6	NMV-8	NMV-12	NMV-16	NMV-25	NMV-35	NMV-50	NMV-75	NMV-100

1/2.3" Sensors									
Camera Model	6 mm	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm	100 mm
M5D-CYL	1-19552 (5mm)*	1-19553	1-19554	1-19556	1-19557	1-19558	NMV-50M23*	NMV-75*	NMV-100*
M18-CYL	1-19552 (5mm)*	1-19553	1-19554	1-19556	1-19557	1-19558	NMV-50M23*	NMV-75*	NMV-100*