



ED-LENS-M12-170320-12 Data Sheet

1/1.7" 12 Megapixel wide range M12 lens

Overview

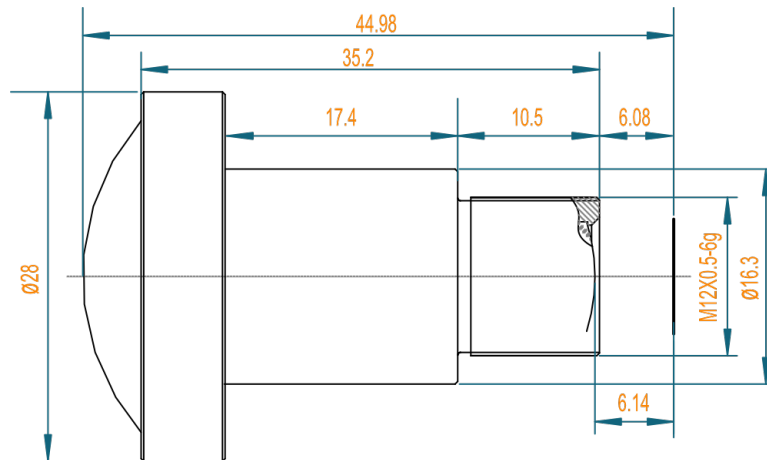
ED-LENS-M12-170320-12 lens can be used with Raspberry Pi M12 High Quality camera module and other cameras with M12 interface. This 3.2mm M12 lens provides an 131° Horizontal Field of View on 1/1.7" sensors.



Specifications

Resolution		12 Megapixel		
Optical format		1/1.7"		
TTL (Total Track Length)		44.98mm		
EFL (Effective Focal Length)		3.2mm		
Aperture		F2.0		
Mount		M12		
FOV (Field of View) DxHxV (°)	° \ "	1/1.7"	1/1.8"	1/2.3"
	D	160	153.6	136
	H	131	129	113.5
	V	99	88	83
Optical Distortion		-64%		
CRA (Chief Ray Angle)		≤11.14°		
MOD (Minimum Object Distance)		0.3m		
BFL (Back Focal Length)		6.14mm		
MBF (Mechanical Back Focal)		6.08mm		
Structure		8G		
Operation		Focus	Manual	
		Iris aperture	Fixed	
IR Correction		YES		
IR Filter (nm)		650		
Dimension (mm)		Φ28×38.9		
Weigh (g)		25		

Mechanical Drawing



Unit	mm
Size Tolerance	0-10±0.1; 10-30±0.3; 30-120±0.5
Angle Tolerance	±2°

Actual Photo

Below picture was taken by Raspberry Pi M12 HQ camera module with this lens in the lab, it just gives a reference about the Field of View and resolution of the lens, it may be different with the pictures taken in different light environment and other different conditions.



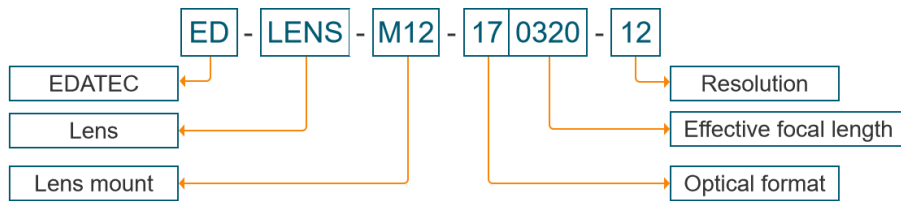
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Ordering Code



Example

P/N : ED-LENS-M12-170320-12

Configuration : EDATEC selected a wide angle of 12 Megapixel M12-mount lens for Raspberry Pi High Quality Camera module, this 3.2mm M12 lens provides an 131° Horizontal Field of View on 1/1.7" sensors.

More details about Ordering Code, please check "[Selection Guide](#)" below.

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Selection Guide

Model NO.	Optical format	EFL (mm)	BFL (mm)	Resolution (Megapixel)	Structure	F/NO.	FOV (D/H/V) (°)	IR Correction	IR Filter (nm)	MOD (m)	Size (mm)
ED-LENS-M12-175000-12	1/1.7"	50	24.2	12	8G	2.8	1/1.7": 10.6/8.6/6.4 1/1.8": 10.15/8.88/4.9	NO	650	0.3	Φ22×44.9
ED-LENS-M12-203500-08	1/2"	35	7.569	8	8G	2.4	12.6/10.1/7.6	NO	650	1	Φ20×33.7
ED-LENS-M12-202500-05	1/2"	25	11.98	5	6G	2.4	1/2": 18.3/14.7/11.1 1/3": 13.8/11.1/8.3 1/4": 10.4/8.3/6.3	YES	650	0.3	Φ14×20.4
ED-LENS-M12-201600-05	1/2"	16	5.75	5	6G	2.0	1/2": 28.9/23.3/17.6 1/2.5": 26.1/24.7/15.8 1/3.6": 18.3/14.7/11.1	YES	650	0.3	Φ14×16
ED-LENS-M12-201200-08	1/2"	12	5.06	8	8G	2.0	1/2": 41.4/36.4/20.9 1/2.3": 36.9/29.8/22.4	YES	650	0.15	Φ15×20.24
ED-LENS-M12-180780-08	1/1.8"	7.8	6.06	8	8G	2.0	1/1.8": 60.8/50.3/38.6 1/2": 55.1/45.2/34.5	YES	650	0.15	Φ18.7×29.27
ED-LENS-M12-180770-04	1/1.8"	7.7	5.37	4	7G1P	1.6	1/1.8": 65.4/57.2/32.4 1/2.3": 57.6/49.5/28.6 1/2.5": 53.2/46.5/26.3	YES	650	0.3	Φ14×20
ED-LENS-M12-170800-12	1/1.7"	8	10.02	12	8G	1.8	1/1.7": 72.64/57.12/42.44 1/2.5": 50.7/44.4/32.6 1/3": 43/34.7/26.4	YES	650	0.3	Φ17×33.1
ED-LENS-M12-180420-02	1/1.8"	4.2	6.18	2	9G	1.8	94/86.3/54.1	YES	650	0.3	Φ25×27.15
ED-LENS-M12-180450-08	1/1.8"	4.5	5.9	8	12G	2.0	98.5/90.2/54.8	YES	650	0.5	Φ24×24.8
ED-LENS-M12-180520-04	1/1.8"	5.2	5.21	4	7G1P	1.6	111/92.3/48.5	YES	650	0.3	Φ14×20.7
ED-LENS-M12-170500-12	1/1.7"	5	6.39	12	8G	2.0	1/1.7": 121.4/90/65 1/2.5": 87/68.6/49.7 1/3": 70.9/55.5/41.2	YES	650	0.3	Φ17×29.4

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ED-LENS-M12-170320-12

Model NO.	Optical format	EFL (mm)	BFL (mm)	Resolution (Megapixel)	Structure	F/NO.	FOV (D/H/V) (°)	IR Correction	IR Filter (nm)	MOD (m)	Size (mm)
ED-LENS-M12-230347-08	1/2.3"	3.47	5.34	8	4G2P	2.2	137/106.8/79	NO	650	1.11	Φ14×15.05
ED-LENS-M12-230325-13	1/2.3"	3.25	5.61	13	7G	2.7	154.2/117.6/85.8	NO	650	0.89	Φ17.5×19.7
ED-LENS-M12-170320-12	1/1.7"	3.2	6.14	12	8G	2.0	1/1.7": 160/131/99 1/1.8": 153.6/129/88 1/2.3": 136/113.5/83	YES	650	0.3	Φ28×38.9
ED-LENS-M12-180250-08	1/1.8"	2.5	5.59	8	8G	2.2	1/1.8": 180/142.4/106.8 1/2": 180/147.8/106.8 1/2.3": 180/142.4/106.8	YES	650	0.3	Φ22×22.19
ED-LENS-M12-180160-05	1/1.8"	1.6	4.88	5	6G	2.0	1/1.8": 180/180/180 1/2.3": 180/180/180 1/3": 180/180/132	YES	650	0.3	Φ20×16
ED-LENS-M12-170185-12	1/1.7"	1.85	6.25	12	9G	2.0	1/1.7": 185/185/185 1/2": 185/185/154.9 1/2.5": 185/185/126.4	YES	650	0.15	Φ34×29.54
ED-LENS-M12-170183-08	1/1.7"	1.83	5.03	8	8E	2.07	186/186/186	YES	650	0.2	Φ21×21.97
ED-LENS-M12-280167-08	1/2.8"	1.67	4.36	8	5G2P	2.0	1/2.8": 190/190/120 1/2.7": 190/190/115.9	YES	650	0.3	Φ22×19.6
ED-LENS-M12-230155-12	1/2.3"	1.55	4.63	12	8G	2.0	1/2.3": 195/195/195 1/2.5": 195/195/172 1/2.7": 195/195/157	YES	650	0.15	Φ26×23.16
ED-LENS-M12-250150-05	1/2.5"	1.5	3.31	5	6G	2.0	1/2.5": 210/210/210 1/3.2": 210/210/210	YES	650	0.3	Φ16×13.58
ED-LENS-M12-230130-12	1/2.3"	1.3	2.96	12	8G	2.0	240/240/240	NO	650	0.25	Φ22×18.24
ED-LENS-M12-230112-04	1/2.3"	1.12	3.01	4	4G2P	2.2	225/225/225	NO	650	0.17	Φ17×18.19

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