

Technical data sheet

Lens

Part no.: 50148548

Lens S-M12-25F8

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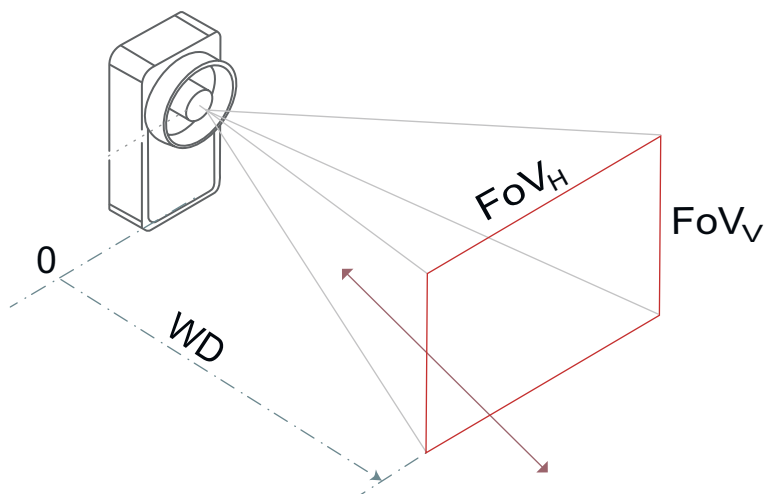
- Technical data
- Dimensioned drawings
- Diagrams



For illustration purposes only

Diagrams

Depth of field and field of view



Depth of field

A	B	C
350	353	376
500	491	539
650	627	706
800	759	878
950	887	1.055
1.100	1.013	1.238
1.250	1.135	1.425
1.400	1.255	1.619
1.550	1.372	1.819
1.700	1.486	2.025
1.850	1.597	2.238
2.000	1.706	2.457

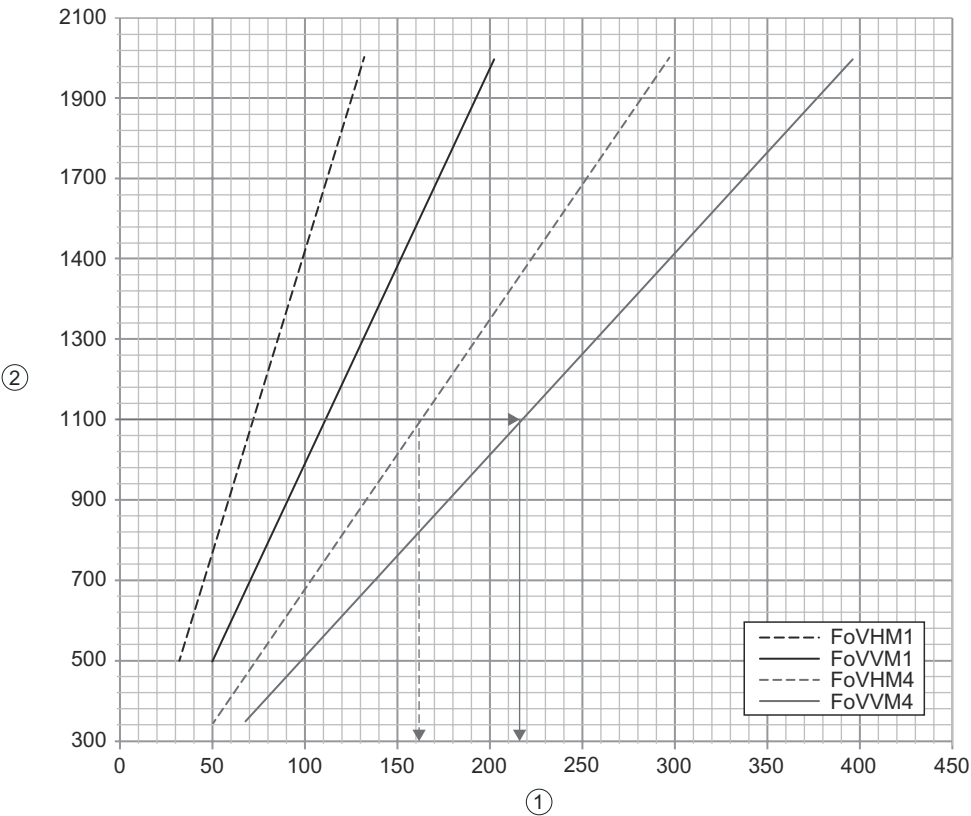
- A Working distance (WD) [mm]
 B Short range
 C Distant range
 - The depth of field (DoF) is the range within which the object can move away from or closer to the camera without going out of focus.
 - The depth of field depends on the lens aperture, the distance to the test object, the lens focal length and the pixel size of the camera.
 - Please note: During calculation, the double pixel size is used as the permissible blur.
 Example: The object should have a WD range of 1,013 WD = 1,100 to 1,238 mm.

Field of view (FoV)

A	B		C	
	FoV _H	FoV _V	FoV _H	FoV _V
350			67	51
500	50	32	97	73
650	65	42	127	95
800	80	52	157	118
950	95	62	187	140
1.100	111	72	216	162
1.250	126	82	246	185
1.400	141	92	276	207
1.550	156	102	306	229
1.700	172	112	336	252
1.850	187	122	365	274
2.000	202	132	395	296

- A Working distance (WD) [mm]
 B Models with low resolution (-M1)
 C Models with high resolution (-M4)
 - The field of view (FoV) is the range in which the sensor can capture its surroundings.
 - It depends on the size of the imager and its resolution, on the focal length of the lens and on the distance of the sensor to the object.
 Example: The FoV is 111 x 83 mm for devices with low resolution (-M1) and 216 x 162 mm for devices with high resolution (-M4).
 WD = 1,100 mm

Diagrams



- 1 Dimensions [mm]
- 2 Working distance (WD) [mm]

Modulus size [mm]

A	B	C
350	0,1	0,15
500	0,15	0,2
650	0,2	0,25
800	0,2	0,35
950	0,25	0,4
1.100	0,3	0,45
1.250	0,35	0,5
1.400	0,35	0,55
1.550	0,4	0,6
1.700	0,45	0,65
1.850	0,5	0,75
2.000	0,55	0,8

- A Working distance (WD) [mm]
- B Bar codes
- C 2D-codes