

Lens selection Chart

1

This chart will help decide which lens should be used for a given distance. 8mm lenses provide the best image quality and should be used when possible. The range specifies the shortest and longest distance that each lens is compatible with. The distance is in cm from the camera to the subject. The range should not be mistaken for trackable movement in depth.

Camera type	VGA	MegaPixel	Dx
Focal length (mm)	Range (cm)		
4,5	45-60	30-70	24-50
6	60-80	40-90	35-65
8	80-100	50-120	45-125
12	11-160	80-180	70-190
16	160-210	100-240	100-180
25	250-330	N/A	150-250

2

The field of view (FOV) specifies the extent of the observable world that is seen at any given moment from each individual camera in horizontal x vertical degrees.

Camera type	VGA	MegaPixel	Dart mini camera
Focal length (mm)	FOV° (Horizontal x Vertical)		
4,5	45 x 34	69 x 57	77 x 62
6	34 x 26	54 x 45	62 x 49
8	26 x 20	42 x 34	48 x 37
12	18 x 13	29 x 23	33 x 25
16	13 x 10	22 x 18	25 x 19
25	8 x 6	N/A	16 x 12

3

When a lens is selected this chart provides information about the expected headbox. The position specifies where in the compatible range of the selected lens the subject is located. Minimum distance being at the shortest possible distance from the camera, and maximum being the longest.

Camera type	VGA	MegaPixel	Dart mini camera
Position	HeadBox (cm)		
Minumum	37 x 27	37 x 27	37 x 27
Mid range	43 x 32	61 x 50	75 x 57

Maximum	50 x 37	92 x 74	110 x 85
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