

DISTANCE AND FIELD SIZE

Table No. 1

For 1/2" Camera (Image size: 4.8mm x 6.4mm)

Focal length	500m	1km	2km	3km	4km	6km
	(V x H)	(V x H)	(V x H)	(V x H)	(V x H)	(V x H)
200mm	12m x 16m	24m x 32m	48m x 64m	12m x 96m	96m x 128m	126m x 192m
300mm	5.8m x 7.7m	11.6m x 15.4m	23.2m x 30.8m	34.8m x 46.2m	46.4m x 61.6m	84m x 128m
500mm	4.8m x 6.4m	9.6m x 12.8m	19.2m x 25.6m	28.8m x 38.4m	38.4m x 51.2m	50.4m x 76.8m
1000mm	2.4m x 3.2m	4.8m x 6.4m	9.6m x 12.8m	14.4m x 19.2m	19.2m x 25.6m	28.8m x 38.4m
2000mm	1.2m x 1.6m	2.4m x 3.2m	4.8m x 6.4m	7.2m x 9.6m	9.6m x 12.8m	14.4m x 19.2m

V: Vertical
H: Horizontal

HOW TO USE THIS TABLE:

From actual test, distance at 500m, by half inch camera, by 200mm of focal length, we are possible to recognize persons face. In this case, the camera will cover 12m x 16m field at 500m.

Example:

By using 2000mm focal length lens, person who is locating at 4Km distance, we are possible to recognize his face because of 9.6m x 12.8m < 12m x 16m

Table No.2

For 1/3" Camera (Image size: 3.6mm x 4.8mm)

Focal length	500m	1km	2km	3km	4km	6km
	(V x H)	(V x H)	(V x H)	(V x H)	(V x H)	(V x H)
200mm	9m x 12m	18m x 24m	36m x 48m	54m x 72m	72m x 96m	108m x 144m
300mm	6m x 8m	12m x 16m	24m x 32m	36m x 48m	48m x 64m	72m x 96m
500mm	4.3m x 5.8m	7.2m x 9.6m	14.4m x 19.2m	21.6m x 28.8m	28.8m x 38.4m	43.2m x 57.6m
1000mm	1.8m x 2.4m	3.6m x 4.8m	7.2m x 9.6m	10.8m x 14.4m	14.4m x 19.2m	21.6m x 28.8m
2000mm	0.9m x 1.2m	1.8m x 2.4m	3.6m x 4.8m	5.4m x 7.2m	7.2m x 9.6m	10.8m x 14.4m

V: Vertical
H: Horizontal