



Unit: mm

Specification \*NO Lens holder

Model	1M13340IR-M3.5		
Sensor	1/9" S5K9A1 (1.4um)	1/10" (640X480?2.25um)	1/13" (640X480?1.75um)
Sensor Size	1.792(H)x1.008(V)x2.056(D)	1.44(H)x1.08(V)x1.80(D)	1.12(H)x0.84(V)x1.40(D)
FBFL	0.55 mm (Object at 60 cm) with 0.21mm IR & 0.4mm Cover Glass	0.55 mm (Object at 60 cm) with 0.21mm IR & 0.4mm Cover Glass	0.55 mm (Object at 60 cm) with 0.21mm IR & 0.4mm Cover Glass
EFL	1.33 mm	1.33 mm	1.33 mm
F/No	4.0±5%	4.0±5%	4.0±5%
FDV	H 67.7° @ Y'=1.792 mm	H 56.7° @ Y'=1.44 mm	H 45.4° @ Y'=1.12 mm
	V 41.2° @ Y'=1.008 mm	V 43.9° @ Y'=1.08 mm	V 34.7° @ Y'=0.84 mm
	D 75.1° @ Y'=2.056 mm	D 68.0° @ Y'=1.80 mm	D 55.3° @ Y'=1.40 mm
TV Distortion	<1%	<1%	<1%
Chief Ray Angle	<33.8°	<32.64°	<27.49°
Relative Illumination	>40% at 1.0 field	>45% at 1.0 field	>60% at 1.0 field
Lens Construction	3 P+1 IR	3 P+1 IR	3 P+1 IR
Total Track	1.95 mm (Object at 60 cm) with 0.21mm IR & 0.4mm Cover Glass	1.95 mm (Object at 60 cm) with 0.21mm IR & 0.4mm Cover Glass	1.95 mm (Object at 60 cm) with 0.21mm IR & 0.4mm Cover Glass
Lens Dimension	ø3.5 X (1.40)	ø3.5 X (1.40)	ø3.5 X (1.40)
Mount Dimension	M3.5 X P0.2	M3.5 X P0.2	M3.5 X P0.2
IR cut	650±10nm	650±10nm	650±10nm
Image Circle Diameter	ø2.36 mm	ø2.36 mm	ø2.36 mm

There are cameras apply to lens

Model	Signal output	Image Circle	Image Sensor	Pixel Size	Resolution	Size(mm)
MD-B20005	UVC	2mm	1/9" color	2.5um x 2.5um	640x480	5.2(D)
MD-B21105	UVC	2.11 mm	1/9" color	1.4 x 1.4um	1280 x 720 (720p)	5.2(D) x 15
MD-B17204	UVC	1.43 mm	1/10" color	1.37 x 1.04um	720 x 625	4(D)
MX-B1204	CVBS	1.43mm	1/12" color	1.75 x 1.75um	720 x 480	4.5(D)
MX-B1004	CVBS	1.72mm	1/10" color	2.125 x 2.125um	640 x 480	4(D)
MX-B8F4	CVBS	2.27mm	1/8" color	1.814 x 1.366um	640 x 480	4.5(D)

**MX-** series connector (specify when ordering)

**MD-** series connector (specify when ordering)

Model	Connect	Image
<b>MX-</b>		
<b>MJ-</b>		
<b>MQ-</b>		

NOTE :  
 G : GND      P : DC POWER  
 A : AUDIO    V : VIDEO



**MD-** (USB A Type)



**MM-** (Micro USB)



**MT-** (USB Type C)