Feature

- Mini Size,
- High Sensitivity,
- High Performance!

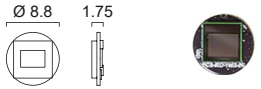
Specification

Model No.	B50409R	B50409	B50488	B50410	B50439
Dimensions (mm)	Ø 8.8 x 1.75	Ø 8.8 x 11.5	8 x 8	10.4 x 10.4	28 x 39
Orientation	Front View				
Camera Type	Board Type				
Video Format	NTSC / PAL				
Image Sensor	1/3.5" Color CMOS Camera Module				
Resolution	720 x 480 (NTSC) / 720 x 576 (PAL)				
Pixel Size (um)	5.6 x 5.6				
Image Circle	Ø 5.04				
Sensitivity (Lux.Sec)	15.3 V				
Dynamic Range	73 dB				
S/N Ratio	38 dB				
Scan Mode	Progressive				
Shutter	Rolling				
Horizontal Sync Freq.	15.734 kHz / 15.625 kHz				
Vertical Sync Freq.	60 Hz / 50 Hz				
Frame Rate (/ sec.)	MO: 30 fps (N), 25 fps (P) / MX: 15~30 fps (N / P)				
Gamma Consumption	0.45				
Video Output	1Vp-p , 75 ohms Composite				
Lens	Please Check Model Information Table				
View Angle	Please Check Model Information Table				
Focus Distance (mm)	Infinity				
LED	N/A (Optional)				
Storage Temp.	-30 to 60 Degree C				
Working Temp.	-10 to 60 Degree C				
Power Supply	DC 5 V				
Power Current	TBD mA (Max.)				
Microphone	N/A (External Optional)				Built-In

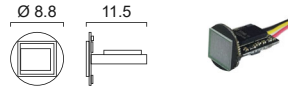
* Working temperature means the camera device, not environment temperature.

Unit: ± 0.5 mm

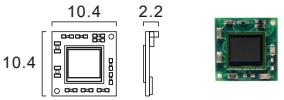
B50409R (No Lens)



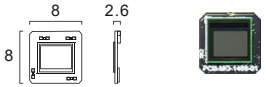
B50409 (No Lens)



B50410 (No Lens)



B50488 (No Lens)



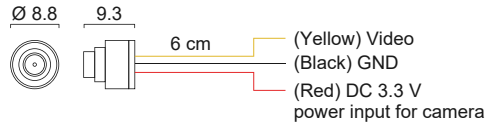
B50439 (No Lens)



50409R

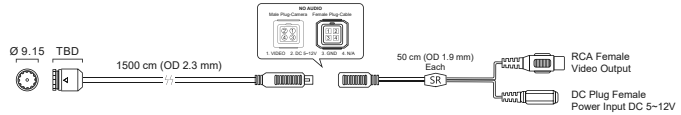


▲ MO-B50409R-3S





▲ MO-T50409R-xx



B50409R-2V (84°)



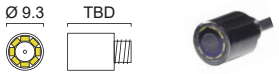
B50409R-3S (73°)



B50409R-5F (54°)



T50409L-3S (73°)



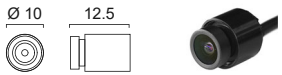
T50409R-xx (TBD°)



T50409-xx (TBD°)



B50409R-99 (99°)

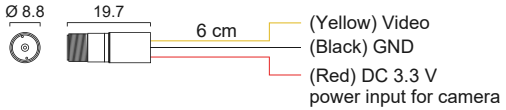


Unit: ± 0.5 mm

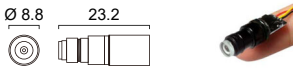
MX-B50409



▲ MX-B50409W-6F



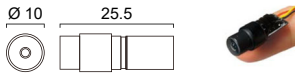
B50409W-2S (101°)



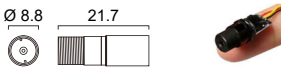
B50409W-3T (72°)



B50409W-3G2 (70°)



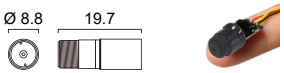
B50409W-4E (65°)



B50409W-4H (59°)



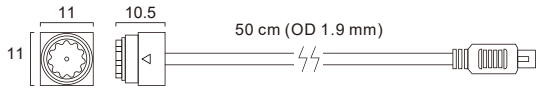
B50409W-6F (43°)



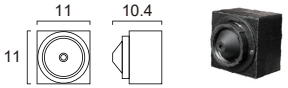
50410



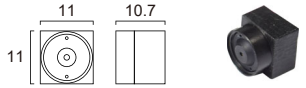
▲ MO-S50410-3F



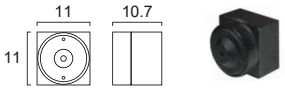
S50410-2V (84°)



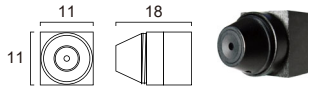
S50410-3T (72°)



S50410-4T (66°)



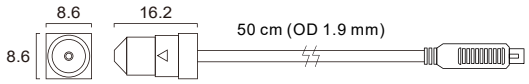
S50410-4C (65°)



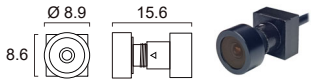
50488



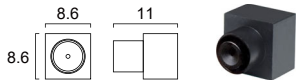
▲ MO-S50488-3V



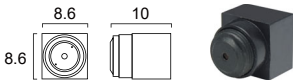
S50488-2S (101°)



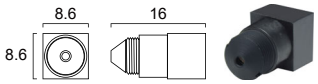
S50488-3K (84°)



S50488-3T (72°)



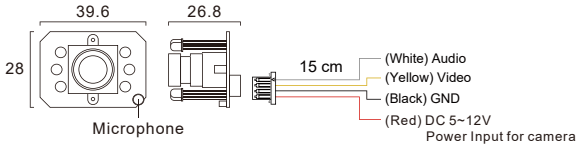
S50488-4C (65°)



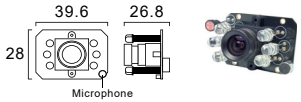
50439



▲ MO-B50439LA-67Y

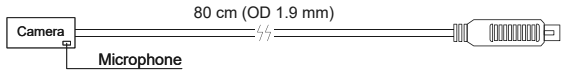


B50439LA-67Y (67°)

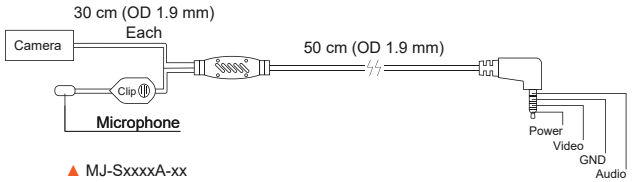


Unit: ± 0.5 mm

Camera with Microphone



▲ MO-SxxxxA
(Built-in microphone)



▲ MJ-SxxxxA-xx
(External digital microphone with 30cm cable from camera)

MO-B50409RALHW-2S

SERIES	CONNECTOR	CAMERA BODY	DISPLAY	MICROPHONE	LED	END SIDE
M Basic MX Low Light and Distortion Correction (Coming Soon)	CVBS Signal N/A IRIS 4 Pin (MX) O IRIS 4 Pin J Phone Jack Q M8 Waterproof F RCA / DC	Front View (V)B Board Type T Tube Type V Tube Type S Forming Type *V Dimmer Controller	Color / B/W / Dimensions 50488 / 504M88 / 8 x 8 (M) 50409R / 504M9R / Ø 8.8 (M) 50409 / 504M9 / Ø 8.8 (MX) 50410 / 504M10 / 10.4 x 10.4 (M) 50439 / 504M39 / 28 x 39 (M) *R Round Shape	N/A None A External 50439 A Built-in	N/A None White: L Normal, LH High-Intensity Infrared: L9 IR 940 nm, L8 IR 850 nm	N/A Cable + Connector C Cable + Wires Out W Wires Out

LENS

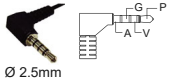
Code	Specification	View Angle
2S	2.1 mm / F 2.5	101°
3K	2.8 mm / F 3.9	84°
3W	2.8 mm / F 3.9	84°
2V	2.81 mm / F 3.9	84°
	2.83 mm / F 3.9	
3.0	3.0 mm / F 2.0	90°
3S	3.4 mm / F 3.4	73°
3T	3.47 mm / F 3.7	72°
3TC	3.5 mm / F 3.5	72°
3TF	3.5 mm / F 3.5	72°
3B	3.56 mm / F 2.2	99°
3GS	3.6 mm / F 2.0	78°
	3.6 mm / F 6.0	
3V	3.3 mm / F 2.4	83°
	3.7 mm / F 2.5	77°
67	3.8 mm / F 2.0	67°
3D	3.9 mm / F 2.8	70°
4T	3.9 mm / F 3.9	66°
4E	4.0 mm / F 2.0	65° (Flat Type)
4C	4.0 mm / F 2.0	65° (Cone Type)
4X	4.0 mm / F 2.4	70°
4V	4.3 mm / F 2.0	61°
4H	4.5 mm / F 2.8	71°
5F	5.0 mm / F 3.5	54°
6F	6.38 mm / F 4.4	43°
8V	8.0 mm / F 2.5	35°

* IR 940nm or IR 850nm LED is suggested to choose B/W camera type.
* Camera with LED light source is suggested to use lens with larger F-Stop number.
* Camera appearance or other requirements are applicable for customization.

Connector Information



IRIS 4 Pin



Phone Jack



M8 Waterproof

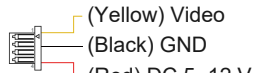


RCA / DC

NOTE:
G GND
A AUDIO
P DC POWER
V VIDEO



Wires Out



*Choose either connector or wires.
(If connector is chosen cannot choose wires, vice versa)