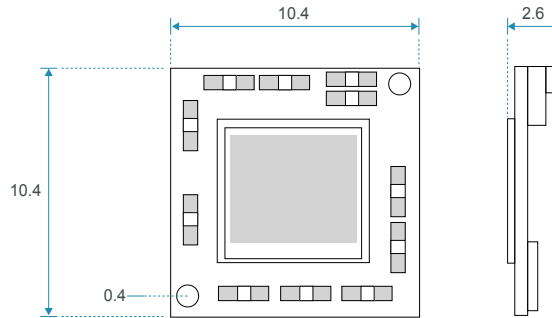


Caméra carte ultra miniature offrant une qualité d'image et une sensibilité surprenante pour sa taille ....

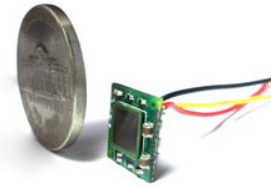
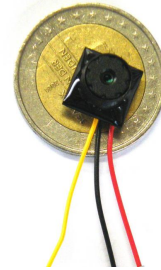
**Body Type**



unit : mm (±0.5)

**Feature**

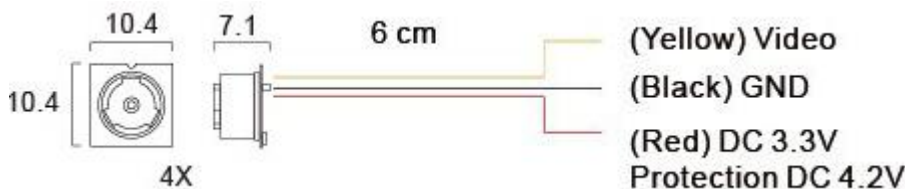
- High Sensitivity!
- High Performance.
- 1/3" CCIQ II Color
- Ultra Slim
- 728 x 576 Pixel
- Compact size



**Ultra Slim**

**Specification**

Model	MO-B50410W-4X-P
Video system	PAL
Number of effective pixels	720 x 576
Image sensor	1/3.5" Color CMOS Camera Module
Resolution(TV Lines)	480 TV Lines
S/N Ratio	38 dB
Dynamic range	73 [dB]
Sensor scan mode	progressive scan
Minimum illumination	0.05Lux /F 1.2 20IRE
Frame Rate	60 Field/sec(NTSC) , 50 Field/sec(PAL)
Sensitivity	13.8 V/Lux.sec
Horizontal sync frequency	NTSC -15.734kHz , PAL - 15.625kHz
Vertical sync frequency	NTSC - 60Hz , PAL - 50Hz
Gamma	0.45
Video output	1Vp-p , 75ohm composite
Built - lens	4.0 mm / F 2.4 (M 6 x P 0.35) H= 59° 42' ; V= 37° 71' ; D= 70° 85'
Storage temperature	-30 to 60 Degree C
Working temperature	-10 to 45 Degree C
Power source	Camera input: DC 3.3V Protection up to 4.2 Vdc
Power current	100 mA(max)
Dimension (mm)	10.4 x 10.4 x 2.6mm

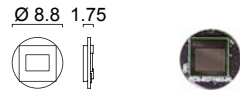


## Feature

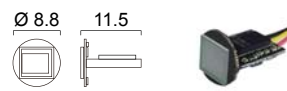
- Mini Size,
- High Sensitivity,
- High Performance!



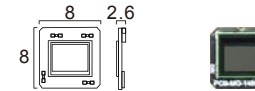
### B50409R (No Lens)



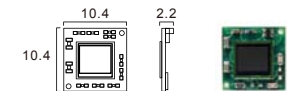
### B50409 (No Lens)



### B50488 (No Lens)



### B50410 (No Lens)



## Specification

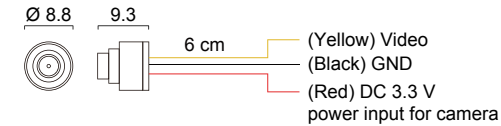
Model No.	B50409R	B50409	B50488	B50410
Dimensions (mm)	Ø 8.8 x 1.75	Ø 8.8 x 11.5	8 x 8	10.4 x 10.4
Orientation	Front View			
Camera Type	Board Type			
Video Format	NTSC / PAL			
Image Sensor	1/3.5" Color CMOS Camera Module			
Resolution	720 x 480 (NTSC) / 720 x 576 (PAL)			
Pixel Size (um)	5.6 x 5.6			
Image Circle	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)			

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

### 50409R



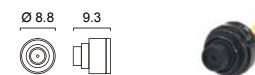
▲ MO-B50409R-3S



### B50409R-2V (84°)



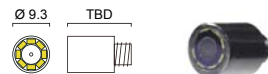
### B50409R-3S (73°)



### B50409R-5F (54°)



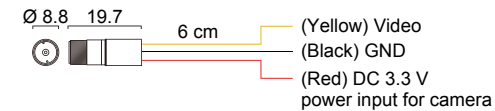
### T50409L-3S (73°)



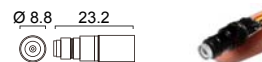
### MX-B50409



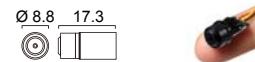
▲ MX-B50409W-6F



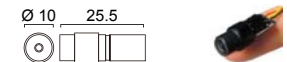
### B50409W-2S (101°)



### B50409W-3T (72°)



### B50409W-3G2 (70°)



### B50409W-4E (65°)



### B50409W-4H (59°)



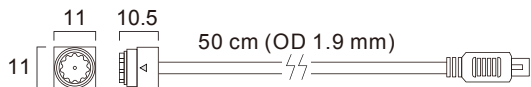
### B50409W-6F (43°)



50410



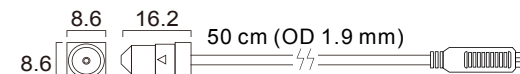
▲ MO-S50410-3F



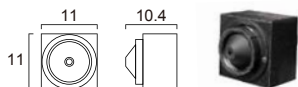
50488



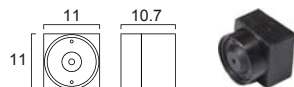
▲ MO-S50488-3V



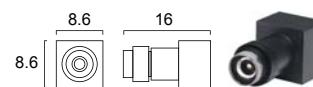
S50410-2V (84°)



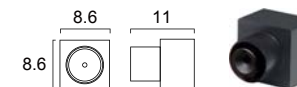
S50410-3T (72°)



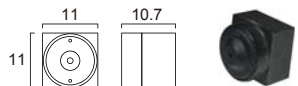
S50488-2S (101°)



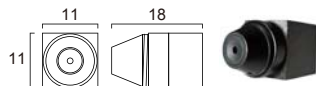
S50488-3K (84°)



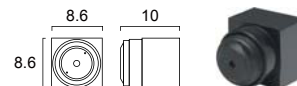
S50410-4T (66°)



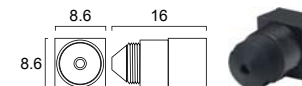
S50410-4C (65°)



S50488-3T (72°)



S50488-4C (65°)



## MO-B50409RALHW-2S

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

### LENS

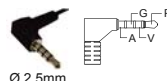
Code	Specification	View Angle	Code	Specification	View Angle	Code	Specification	View Angle	Code	Specification	View Angle
2S	2.1 mm / F 2.5	101°	3T	3.47 mm / F 3.7	72°	3D	3.9 mm / F 2.8	70°	4V	4.3 mm / F 2.0	61°
3K	2.8 mm / F 3.9	84°	3TC	3.5 mm / F 3.5	72°	4T	3.9 mm / F 3.9	66°	4H	4.5 mm / F 2.8	71°
3W	2.8 mm / F 3.9	84°	3TF	3.5 mm / F 3.5	72°	4E	4.0 mm / F 2.0	65° (Flat Type)	5F	5.0 mm / F 3.5	54°
2V	2.83 mm / F 3.9	84°	3G2	3.6 mm / F 2.0	70°	4C	4.0 mm / F 2.0	65° (Cone Type)	6F	6.38 mm / F 4.4	43°
3S	3.4 mm / F 3.4	73°	3V	3.7 mm / F 2.5	69°	4X	4.0 mm / F 2.4	70°	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)