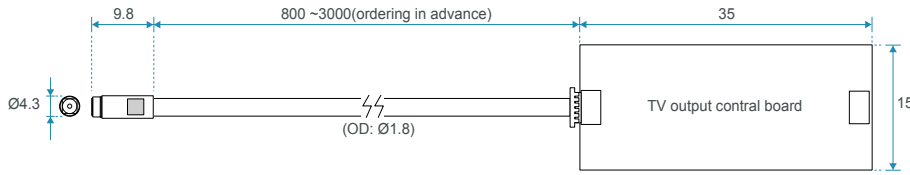
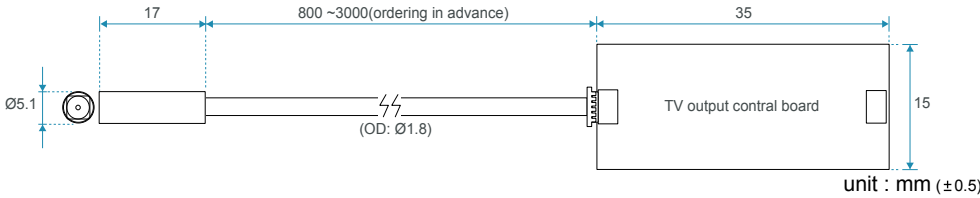


**Tube Type**

MO-B13R4



MO-T13R4



**Feature**

- High Sensitivity!
- High Performance.
- 1/13" CCIQ II Color
- Ø 4.3 mm only
- 642 x 484 Pixel
- TV OUT

**Specification**

Model	MO-B13R4	MO-T13R4
LED Light illumination	W/O LED	
Video system	NTSC / PAL	
Number of effective pixels	642 X 484 (NTSC & PAL)	
Image sensor	1/13" CCIQ Color Camera	
Resolution(TV Lines)	480 TV Lines	
S/N Ratio	34 dB	
Dynamic range	66 dB	
Shutter Type	Electronic Rolling Shutter (ERS)	
Sensitivity	1.2V /Lux.sec	
Sensor scan mode	progressive scan	
Minimum illumination	5 Lux / F2.8	
Frame Rate	60 Field/sec(NTSC) , 50 Field/sec(PAL)	
Horizontal sync frequency	NTSC -15.734kHz , PAL - 15.625kHz	
Vertical sync frequency	NTSC - 60Hz , PAL - 50Hz	
Camera consumption	0.45	
Video output	1Vp-p , 75ohm composite	
Built - lens	1.19mm/ F2.8	
Storage temperature	-30 to 60 Degree C	
Working temperature	-10 to 45 Degree C	
Power source	Camera input: DC 3.3V~5V	
Power current	160 mA(max)	



**MO-B13R4**

**Order information**

MODEL	Dimension	LED Light
MO-B13R4	(D)4.3 x 9.8 mm(sensor board)+ 800+15 x 35mm(TV Output Control Board)	X
MO-B13R4L	(D)4.3 x 9.8 mm(sensor board)+ 800+15 x 35mm(TV Output Control Board)	White LED x 4
MO-T13R4	(D)5.1 x 17 mm(camera head in tube)+ 800+15 x 35mm(TV Output Control Board)	X
MO-T13R4L	(D)5.1 x 17 mm(camera head in tube)+ 800+15 x 35mm(TV Output Control Board)	White LED x 4

**NOTE:**

- MO-**B**13R4    **B**: BOARD type  
 MO-**T**13R4    **T**: TUBE type(water proof IP67)

**Other information**

**MO-B1003**

- 1/10" CCIQ II
- Lens : 2.5 mm Only !!

1/10" Color CCIQ II Camera  
 Pixel : 400 x 400 (NTSC / PAL )  
 3300mV/Lux  
 Sensor board:(D)2.5 x 5 (mm)  
 +  
 Main board: 70 x 15(mm)

