Feature

- Miniature size.
- Outstanding quality.
- VGA image pixel.

Global Shutter | 800p Resolution | Real B/W Display

Specification

* Simulation frame rate synchronize output and 3D stereogram specification (request while place order).

Model No.	B441CM8R	
Series	X Y	T U
Dimensions (mm)	Ø 7.4	Ø 7.4 x 24.2
Chief Ray Angle	9°	
Orientation	Ø 7.4	
Camera Type	Board Type	
Video Format	MJPEG / YUV	
Image Sensor	1/4" B/W CMOS Camera Module	
Resolution	1280 x 800 @ 120 fps	
Pixel Size (um)	3.0 x 3.0	
Image Area (mm)	3.89 x 2.45	
Sensitivity (Lux.Sec)	13000 mV/μW.cm^{-2}.sec @ 850 nm 6500 mV/μW.cm^{-2}.sec @ 940 nm	
Dynamic Range	68 dB	
S/N Ratio	38 dB	
Scan Mode	Progressive	
Shutter	Rolling	
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	
Interface	USB 2.0 / USB 3.0	
Power Supply	DC 5 V	
Power Current	250 mA (Max.)	
Microphone	N/A	
Operation System	Win 10, Linux Mac OSX	

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

Unit: ± 0.5 mm

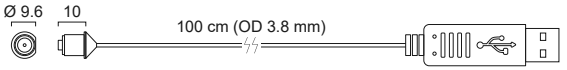
B441CM8R No Lens



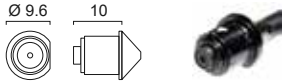
B441CM8R



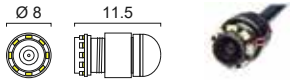
▲ YD-B441CM8R-41A



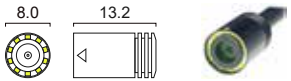
B441CM8R-41A (41°)



B441CM8RL9-144 (144°)



V441CM8LH-68 (68°)



Global Shutter



Means that all pixels of the array are exposed simultaneously.

Advantage

- No Distortion of straight lines with fast-moving objects
- No limit on flash sync speed

Disadvantage

- Higher noise levels
- Lower frame rates
- Lower dynamic range

Rolling Shutter



Means that adjacent rows of the array are exposed at slightly different times as the readout 'waves' sweep through each half of the sensor.

Advantage

- Lower noise levels
- Higher frame rates
- Higher dynamic range

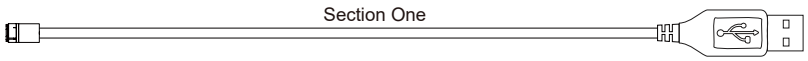
Disadvantage

- May cause image distortion of moving objects
- Limited flash sync speed

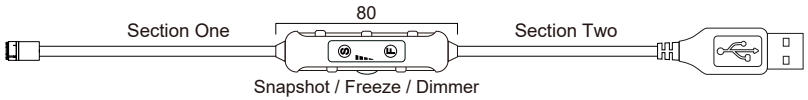
Unit: ± 0.5 mm

Cable Please check cable information for Section One and Section Two.

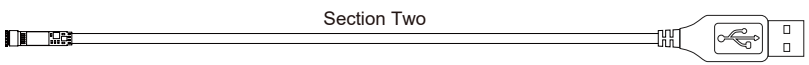
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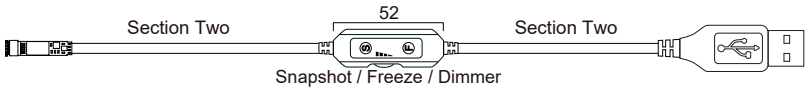
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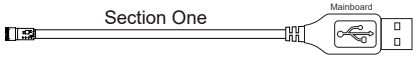
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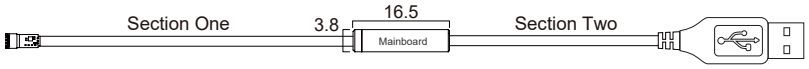
FU



X



Mainboard assembled in connector when cable length is within 500 cm.

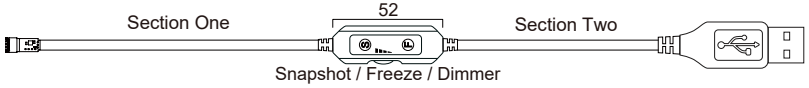


Mainboard assembled in between camera head and connector when cable length is more than 500 cm.

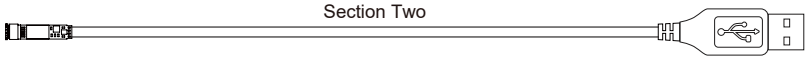


Mainboard assembled in between camera head and connector when cable length is more than 500 cm.

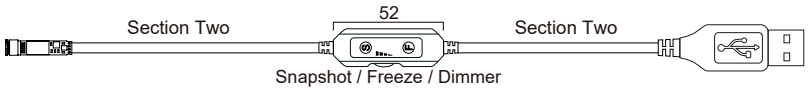
FX



T



FT



Section One

OD (mm)	Length (cm)	Series
2.8	10~230	FY Y FX X
3.8	10~200	

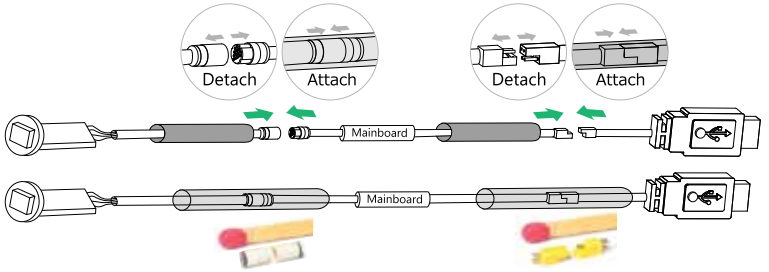
Section Two

OD (mm)	Length (cm)	Series
0.35 Enameled Wires	10~150	FX X FT T
0.9	10~200	
1.4 AWG#30	10~600	
1.4 AWG#28	10~1000	
1.6	10~1000	
1.7	10~200	
2.8	10~400	
3.5	10~1000	
5.0	10~1500	
3.6	10~250	FY Y FU U
6.2	10~200	

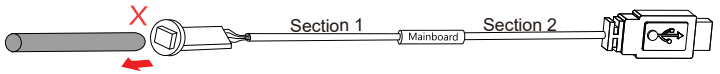
Detachable Nano Connectors *(Customize Option)*

Specifically designed to overcome the big size of connector and camera head.

With detachable Nano connectors,
a tube can go through the thin cable from halfway.



Without detachable Nano connectors,
camera head cannot go through the tube.



★Each segment can be modified by customer request.

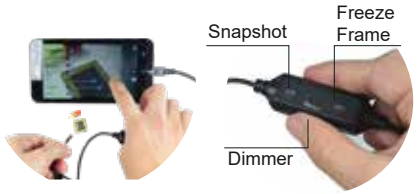
Unit: ± 0.5 mm

PC Requirements

- Driver free (USB Video Class) for any OS (Win 10, Win 8, Win7, Win XP, Linus, Android) Play & Plug with USB Video Class
- Camera parameter can be adjusted on smartphone via the Misumi app and PC viewer software AMCAP. AMCAP: https://amcap.en.softonic.com/



AMCAP





- Linux
- Windows

- MAC

- Android
- Windows

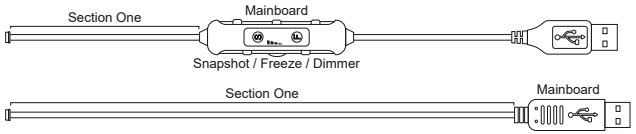
FYD-VB441CM8RLH-54A

SERIES	CONNECTOR	CAMERA BODY	DISPLAY	MICROPHONE	LED	LENS
USB 3.0 (F)Y Low Temp. (F)U Advance **USB 2.0** (F)X Low Temp. (F)T Advance *F Snapshot and Freeze Frame	**UVC (USB)** D Type A T Type C E TE Industrial Mini I/O Type II (2040008-2) (USB 2.0 Only)	**Front View** (V)B Board Type T Tube Type V Tube Type **Side View** (V)EBL Board Type (V)EBR Board Type *V Dimmer Controller *E Triple Lenses *L Left View *R Right View	**Color B/W Dimensions** - 441CM8R Ø 7.4 x 1.7 (Y / X) - 441CM8 Ø 7.4 x 24.2 (U / T) *R Round Shape *C Chief Ray Angle 9°	N/A None	N/A None **White** LH High-Intensity **Infrared** L9 IR 940 nm L8 IR 850 nm	**Code / Specification / View Angle** 144 2.3 mm / F 7.0 144° 120 2.65 mm / F 2.4 120° 112 2.65 mm / F 2.6 112° 73 3.51 mm / F 3.5 73° 68 3.40 mm / F 2.8 68° 54 4.5 mm / F 2.8 54° 52 4.4 mm / F 2.4 52° 41 6.0 mm / F 4.5 41°

CABLE

Camera Head to Mainboard (Section One)

N/A Cable OD 3.8 + 0.1 mm (Max. 200 cm)
A Cable OD 2.8 + 0.1 mm (Max. 200 cm)



* 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.
* TE Industrial Mini I/O Type II connector does not support USB 3.0 output.

Connector Information



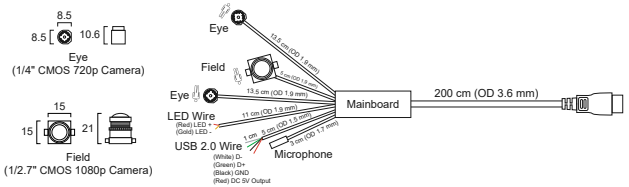
USB Type A | USB Type C | TE Industrial Mini I/O Type II (2040008-2) (USB 2.0 Only)

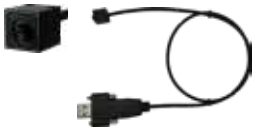
Unit: ± 0.5 mm

Customize



▲ YT-EB6000-(xx)





▲ YD-N441A10-(xx)

