Unit: ± 0.5 mm

Feature

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

B164B03 (No Lens)



B164B03 (No Lens)



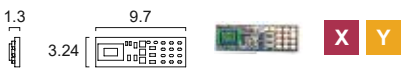
B164B03 (No Lens)



BL164B03 (No Lens)



BL164B03S (No Lens)



Specification

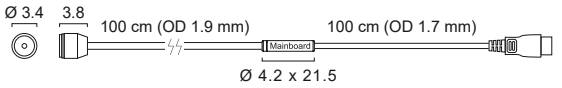
Model No.	B164B03			BL164B03	BL164B03S
Series	K	X Y	T	X Y	X Y
Dimensions (mm)	Ø 3.24 x 1.4	Ø 3.24 x 8.0	Ø 3.4 x 12	Ø 3.24 x 6	Ø 3.24 x 9.7
Orientation	Front View	Front View	Front View	Side View	Side View
Camera Type	Board Type				
Video Format	MJPEG / YUV				
Image Sensor	1/11" Color CMOS Camera Module				
Resolution	1280 x 720				
Pixel Size (um)	1.12 × 1.12				
Image Area (mm)	1.43 × 0.81				
Sensitivity (Lux.Sec)	3550 Lux.Sec				
Dynamic Range	64.6 dB				
S/N Ratio	110 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	160 mA (Max.), 190 mA (with LED)				
Microphone	N/A (External Optional)				
Operation System	Win XP, Win Vista, Win 7, Win 8, Win 10 Linux, MAC OSX				

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

B164B03

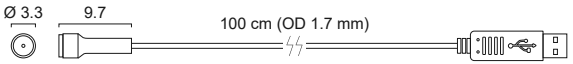


▲ KT-B164B03-65





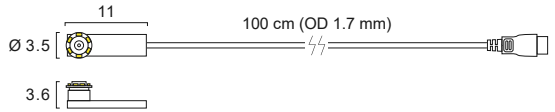
▲ YD-B164B03-65



BL164B03S



▲ XT-BL164B03SLH-120



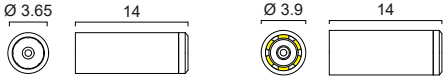
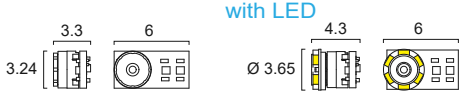
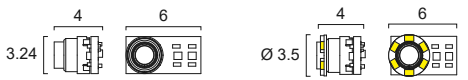
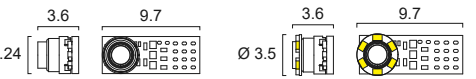
Unit: ± 0.5 mm

SERIES K

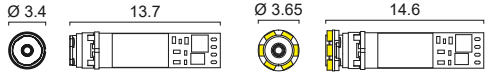
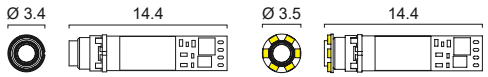
Low Working Temperature
Typically 41°~45°C Range

Lens	Front View	
	B164B03 Board Type	T164B03 Tube Type
65°	with LED 	with LED 
120°		

SERIES Y X

Lens	Front View		Side View	
	B164B03 Board Type	T164B03 Tube Type	BL164B03 Board Type	BL164B03S Board Type (Components on Single Side)
65°	with LED 	with LED 	with LED 	with LED 
120°				

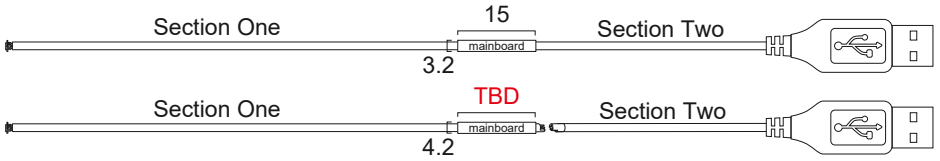
SERIES T

Lens	Front View
	B164B03 Board Type
65°	with LED 
120°	

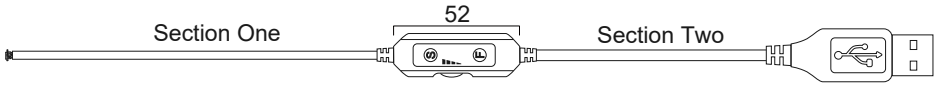
Unit: ± 0.5 mm

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

K

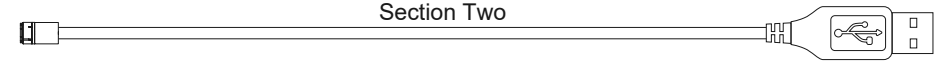


FK

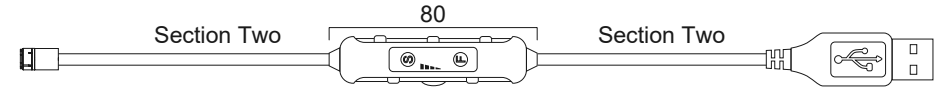


Snapshot / Freeze / Dimmer

Y

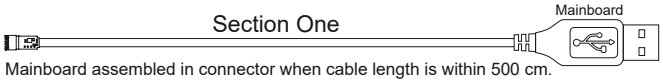


FY

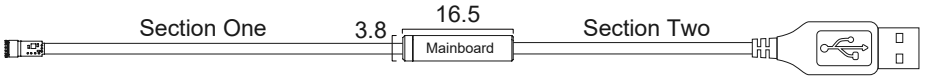


Snapshot / Freeze / Dimmer

X



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

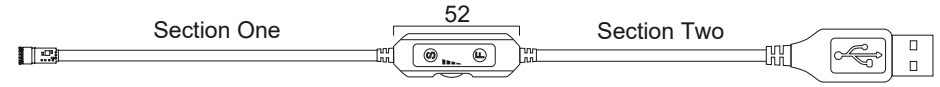


Mainboard assembled in between camera head and connector when cable length is more than 500 cm.



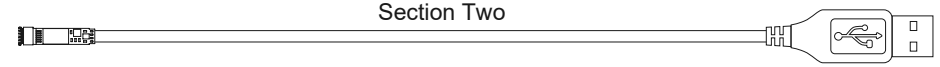
Mainboard assembled in between camera head and connector when cable length is more than 500 cm.

FX

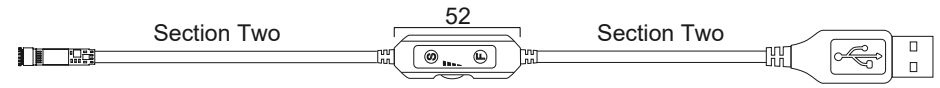


Snapshot / Freeze / Dimmer

T



FT



Snapshot / Freeze / Dimmer

Section Two (Max. 7 Pin)

OD (mm)	Length (cm)	Series
1.4 #28 x 4C	10~1000	K X T
1.4 #30 x 4C	10~600	
1.6 #28 x 4C	10~1000	
1.7 #36 x 9C	10~200	
2.8 #30 x 7C	10~400	
3.6 #28 x 7C	10~1000	
3.6 #28 x 11C	10~250	Y
5.0 #24 x 9C	10~1500	K X T
6.2 #28 x 11C	10~200	Y

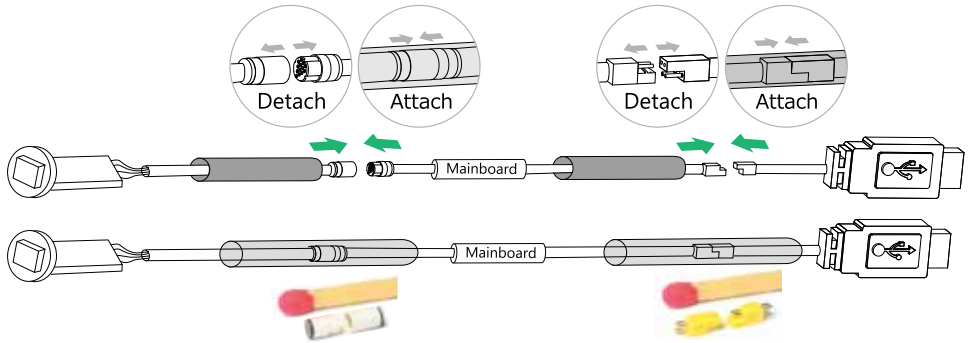
Section One (Max. 15 Pin)

OD (mm)	Length (cm)	Series
1.5 #38 x 13C	10~100	Y
	10~250	K X
1.7 #36 x 13C	10~70	Y
	10~200	K X
1.9 #36 x 15C	10~150	Y
	10~400	K X
2.8 #32 x 15C	10~200	Y
	10~400	K X
2.8 #34 x 13C	10~600	X

Detachable Nano Connectors *(Customize Option)*

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

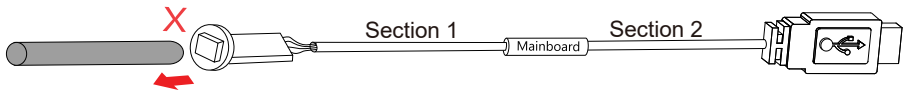
With detachable Nano connectors,
a tube can go through the thin cable from halfway.



Nano 13~15 pin
(Section 1)

Nano 4 pin
(Section 2)

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

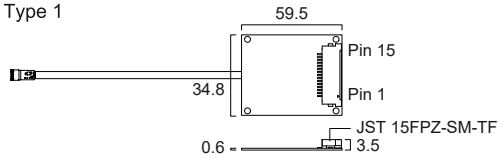


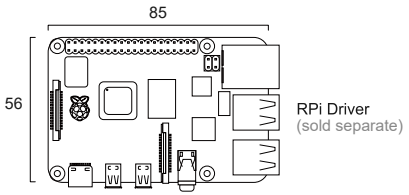
★Each segment can be modified by customer request.

Unit: ± 0.5 mm

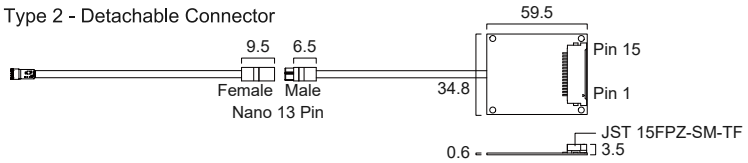
Raspberry Pi (RPi) / MIPI CSI-2 (Available for X Series Only)

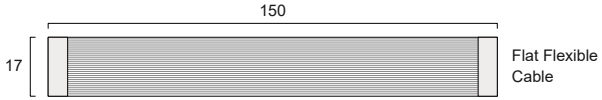
Type 1



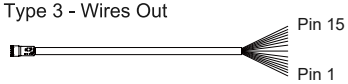


Type 2 - Detachable Connector





Type 3 - Wires Out



PIN	NAME	DESCRIPTION	PIN	NAME	DESCRIPTION
1	GND	Ground	9	MCP	MIPI clock positive output
2	MDN0	MIPI data negative output	10	GND	Ground
3	MDP0	MIPI data positive output	11	RST	Reset and power down (active low)
4	GND	Ground	12	MCLK	System clock input
5	MDN1	MIPI data negative output	13	SCL	Serial interface clock
6	MDP1	MIPI data positive output	14	SDA	Serial interface data
7	GND	Ground	15	+3.3V	Power supply +3.3V
8	MCN	MIPI clock negative output			

All MISUMI UVC Camera are Compatible With MP-WF580KP (WiFi DVR)

Supports H.264 video format input, loop recording, snapshot functions.
Supports max memory 128 GB (micro SD).

Users can view live streaming video via a smartphone.



Omni-Viewer


Android


iOS




AMCAP





▲MP-WF580KP

About MP-WF580KP:
It deliver the best 1080p live streaming performance when using H.264 camera.
MJPEG cameras can only live stream at resolutions of 720p and below.
MJPEG cameras delivers the best live streaming performance at 640 x 480.

FYD-B164B03LH-65

SERIES	CONNECTOR	CAMERA BODY	DISPLAY	MICROPHONE	LED	LENS
USB 3.0 (F)Y Low Temp. **USB 2.0** (F)K Short Head (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) R Raspberry Pi (X)	**Front View** (V)B Board T Tube V Tube *V Dimmer Controller	**Front View** Color: 164B03 / B/W: 164BM3 Dimensions: Ø 3.24 x 1.4; Ø 3.24 x 8.0 (X / Y); Ø 3.24 x 12 **Side View** Color: 164B03S / B/W: 164BM3S Dimensions: 3.24 x 6 (X / Y); 3.24 x 9.7 (X / Y) *S Components on single side	N/A None A External	N/A None **White** L Normal LH High-Intensity **Infrared** L9 IR 940 nm L8 IR 850 nm	**Code / Specification / View Angle** 31 — 2.88 mm / F 2.0 — 31° 2.88 mm / F 4.8 63 — 1.33 mm / F 2.0 — 63° 1.33 mm / F 4.0 65 — 1.32 mm / F 2.0 — 65° 1.32 mm / F 3.5 1.32 mm / F 4.0 78 — 1.00 mm / F 4.8 — 78° 109 — 0.92 mm / F 4.5 — 109° 120 — 0.878 mm / F 5.0 — 120°

* 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)