Unit: ± 0.5 mm

Feature

- Miniature size.
- Outstanding quality.
- 720p image pixel.

B164A03 (No Lens)



B164A03 (No Lens)



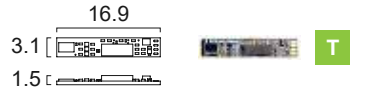
B164A03 (No Lens)



BL164A03S (No Lens)



BL164A03S (No Lens)



Specification

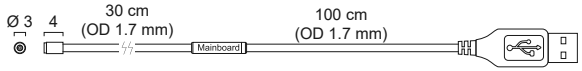
Model No.	B164A03			BL164A03S	
Series	K	X Y	T	X Y	T
Dimensions (mm)	Ø 3 x 1.1	Ø 3 x 8	Ø 3 x 9.6	3.25 x 10.75	3.1 x 16.9
Orientation	Front View			Side View	
Camera Type	Board Type				
Video Format	MJPEG / YUV				
Image Sensor	1/11" Color CMOS Camera Module				
Resolution	1280 x 720 @ 30 fps (USB 2.0) / 60 fps (USB 3.0)				
Pixel Size (um)	1.116 x 1.116				
Image Area (mm)	1.446 × 0.91				
Sensitivity (Lux.Sec)	4500 e-				
Dynamic Range	72.2 dB				
S/N Ratio	36.8 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.

B164A03



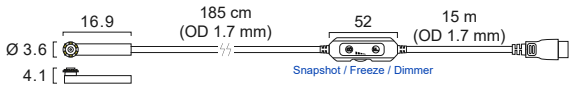
▲ KD-B164A03-120



BL164A03S



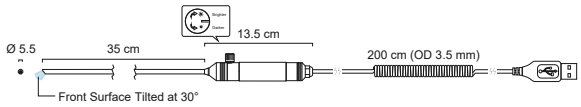
▲ FTT-VBL164A03SLH-65



V164A05Z



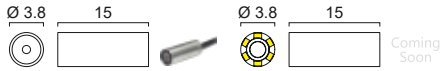
▲ KD-V164A05ZLH-120



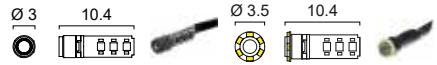
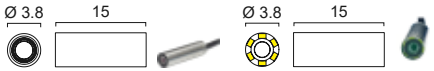
Unit: ± 0.5 mm

SERIES K

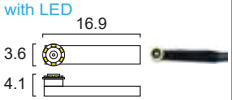
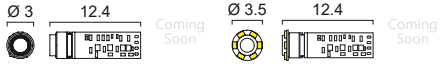
Low Working Temperature
Typically 41°~45°C Range

Lens	Front View		
	B164A03 Board Type	T164A03 Tube Type	V164A05ZLH Tube Type (Rigid Steel / Front Surface Tilted at 30°)
65°	with LED 	with LED Coming Soon Coming Soon	N/A
120°		 Coming Soon	

SERIES Y X

Lens	Front View		Side View
	B164A03 Board Type	T164A03 Tube Type	BL164A03S Board Type (Components on Single Side)
65°	with LED 	with LED Coming Soon Coming Soon	with LED Coming Soon Coming Soon
120°			Coming Soon Coming Soon

SERIES T

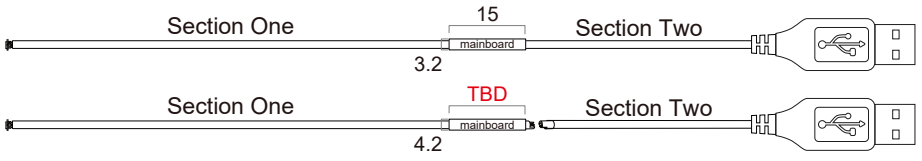
Lens	Front View	Side View
	B164A03 Board Type	BL164A03S Board Type
65°	with LED Coming Soon Coming Soon	with LED Coming Soon 
120°	 Coming Soon Coming Soon	 Coming Soon

Unit: ± 0.5 mm

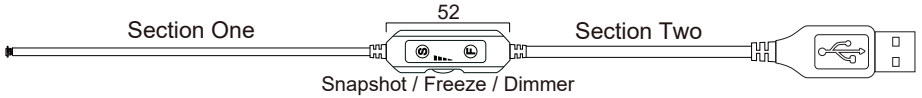
CABLE

Please check cable information for Section One and Section Two.

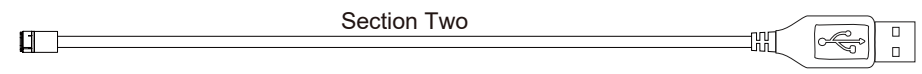
K



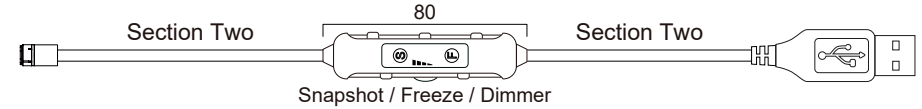
FK



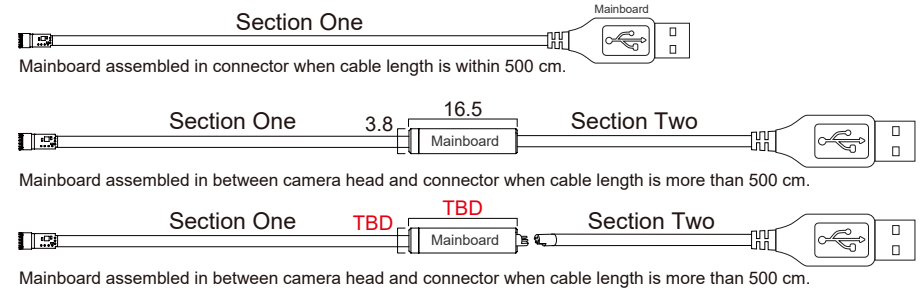
Y



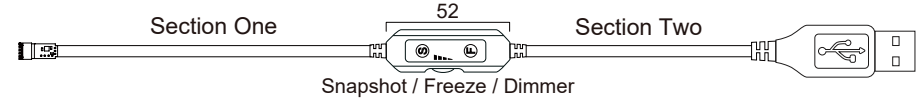
FY



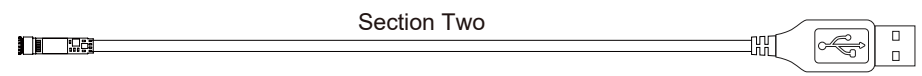
X



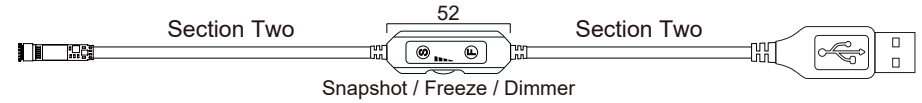
FX



T



FT



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

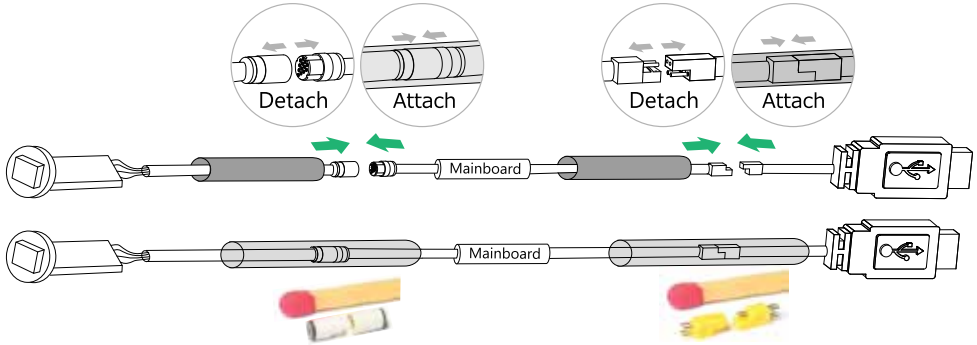
Section One (Max. 15 Pin)

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.

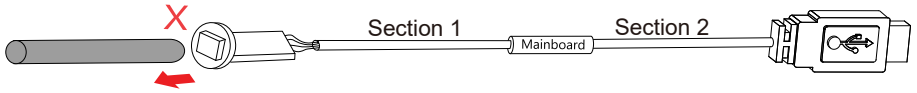
With detachable Nano connectors,
a tube can go through the thin cable from halfway.



Nano 13~15 pin
(Section 1)

Nano 4 pin
(Section 2)

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

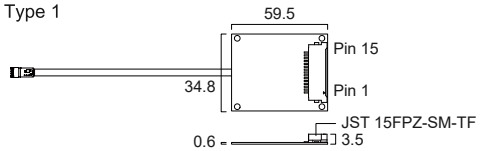


★ Each segment can be modified by customer request.

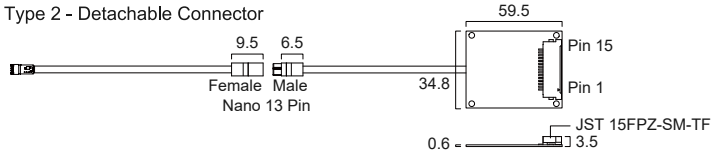
Unit: ± 0.5 mm

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

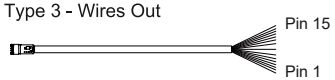
Type 1

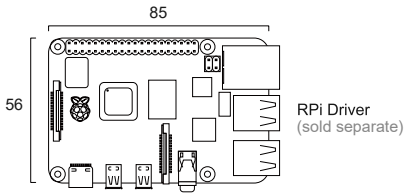


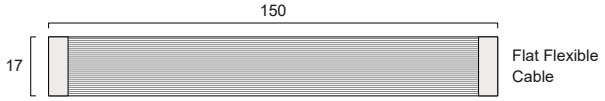
Type 2 - Detachable Connector



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-B164A03LH-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)S Forming (V)Z Slim Forming **Side View** (V)BL Board (V)ZL Slim Forming *V Dimmer Controller	Front View Color / B/W / Dimensions 164A03 / 164AM3 / Ø 3 x 1.1 (K) Ø 3 x 8 (X / Y) Ø 3 x 9.6 (T) 164A05(Z) / 164AM5(Z) / Ø 5.5 x 350 (Handle Bar) Side View Color / B/W / Dimensions 164A03S / 164AM3S / Ø 3.25 x 10.75 (X / Y) Ø 3.1 x 16.9 (T) *S Components on single side *Z Rigid Steel	N/A None A External	N/A None **White** L Normal LH High-Intensity LF Plastic Fiber LG Glass Fiber **Infrared** L9 IR 940 nm L8 IR 850 nm **Ultraviolet** L4 UV 405 nm	Code / Specification / View Angle 24 / 3.99 mm / F 5.9 / 24° 31 / 2.88 mm / F 2.0 / 31° 2.88 mm / F 4.8 1.32 mm / F 2.0 65 / 1.32 mm / F 3.5 / 65° 1.32 mm / F 4.0 109 / 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.

* Illuminance test at 30 mm (±50 Lux)
Glass Fiber 950 Lux
High-Intensity 610 Lux

Connector Information


USB Type A


USB Type C


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