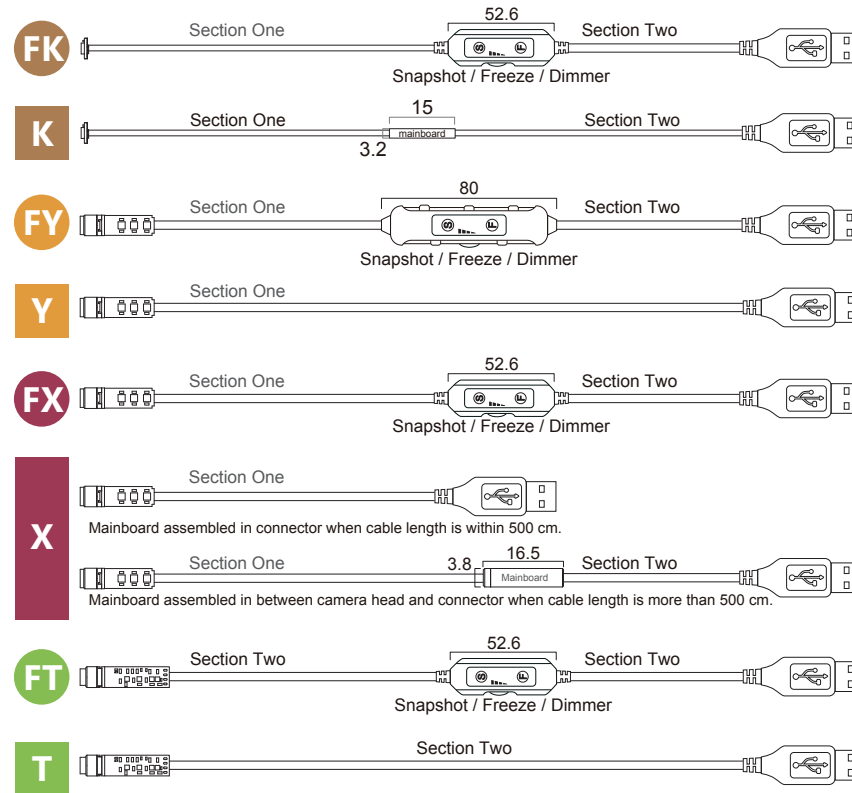


Series Information

Series	FK	K	FY	Y	FX	X	FT	T
Snapshot and Freeze Frame	Support	N/A	Support	N/A	Support	N/A	Support	N/A
Feature	Short camera head		Low temperature			Advance		
Interface	USB 2.0		USB 3.0		USB 2.0			
Frame Rate	15~30 fps		60 fps		15~30 fps			
Camera Shape	Round Shape		T shape			Rectangle Shape		
Orientation	Front View					Side View		

Series	Lens	No Lens (Board Type)	120° (Board Type)	120° (Tube Type)
FK / K				
FY / Y / FX / X				

Resolution	1280 x 720	
Video Format	MJPEG / YUV	
Image Sensor	1/11" Digital CMOS Camera Module	
Pixel Size (µm)	1.16 × 1.16	
Image Area (mm)	1.446 × 0.91	
Scan Mode	Progressive	
Storage Temperature	-30 to 60 Degree C	
Working Temperature	-10 to 45 Degree C	
Sensitivity	4500 e- / (Lux-sec)	
Dynamic Range	72.2dB @ 16 × gain	
Lens (Specify Which Lens)	31	2.88 mm / F 2.0 (H= 27°; V= 16°; D= 31°) 2.88 mm / F 4.8
	63	1.33 mm / F 2.0 (H= 56°; V= 33°; D= 63°) 1.33 mm / F 4.0
	65	1.32 mm / F 2.0 1.32 mm / F 3.5 (H= 57°; V= 33° ; D= 65°) 1.32 mm / F 4.0
	109	0.92 mm / F 4.5 (H=91°; V=47°; D=109°)
	120	0.878 mm / F 5.0 (H=95°;V=56°;D=120°)
Power Source	DC 5V (USB)	
Power Current	160 mA 190 mA (With LED)	
Operating System	Windows XP, Windows Vista, Window 7 Windows 8, Windows 10, Linux, Mac OSX	



Section One (Max. 15 Pin)

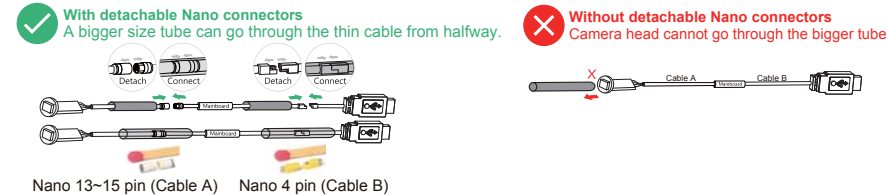
OD (mm)	Length (cm)	Series
1.5 AWG#38 EN-13C	10~100	FY Y
	10~250	FK K FX X
1.7 AWG#37 EN-13C	10~70	FY Y
	10~200	FK K FX X
1.9 AWG#36 EN-15C	10~150	FY Y
	10~400	FK K FX X
2.8 AWG#32 EN-15C	10~200	FY Y
	10~400	FK K FX X

Section Two (Max. 7 Pin)

OD (mm)	Length (cm)	Series
0.35 Enamelled Wires	10~150	
0.9 AWG#42 EN-9C	10~200	
1.4 AWG#28 EN-4C	10~1000	
1.4 AWG#30 EN-4C	10~600	FK K FX X
1.6 AWG#28 EN-4C	10~1000	FT T
1.7 AWG#36 EN-9C	10~200	
2.8 AWG#30 EN-7C	10~400	
3.6 AWG#28 EN-7C	10~1000	
3.6 AWG#28 EN-11C	10~250	FY Y
5.0 AWG#24 EN-9C	10~1500	FK K FX X FT T
6.2 AWG#28 EN-11C	10~200	FY Y

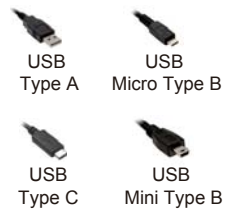
Detachable Nano Connectors (Customize Option)

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



Series Compare	Series	164A	164B
	Pixel Size (µm)	1.116 × 1.116	1.12 × 1.12
	Image Area (mm)	1.446 × 0.91	1.43 × 0.81

FYD-B164A03LH-65

SERIES	CONNECTOR	CAMERA BODY	DISPLAY	LED	LENS
USB 3.0 FY Low temperature Y Low temperature USB 2.0 FK Short camera head K Short camera head FX Low temperature X Low temperature FT Advance T Advance * F Snapshot and Freeze Frame	UVC Signal D USB Type A M USB Micro Type B (OTG) T USB Type C I USB Mini Type B Connector Information 	Front View FK K FY Y FX X B Board Type VB Board Type + Dimmer T Tube Type V Tube Type + Dimmer S Forming Type VS Forming Type + Dimmer Z Slim Forming Type VZ Slim Forming Type + Dimmer Side View FT T BL Board Type VBL Board Type + Dimmer ZL Slim Forming Type VZL Slim Forming Type + Dimmer	Front View 164A03 Color 164AM3 B/W Side View 164A03S Color 164AM3S B/W *S Components on single side	Code Description Illuminance LF Plastic fiber (White LED) LG Glass fiber (White LED) 950 Lux LH High-Intensity White LED 610 Lux L4 UV 405nm LED L8 IR 850nm LED L9 IR 940nm LED * Illuminance test at 30 mm (±50 Lux)	Code Secification Thread View Angle 31 2.88 mm / F 2.0 2.88 mm / F 4.8 63 1.33 mm / F 2.0 1.33 mm / F 4.0 65 1.32 mm / F 2.0 1.32 mm / F 3.5 1.32 mm / F 4.0 Ø 3.08 109 0.92 mm / F 4.5 M 2.2 x P 0.25 120 0.878 mm / F 5.0 Ø 2.9 120°

* 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.

FK / K Series

Unit: ± 0.5 mm

Lens	N/A	120°	120° (with LED)
B164A03 Front View Board Type	1.1 (TBD) Ø 3	3.82 Ø 3	3.82 Ø 3.5 Coming Later

FY / Y / FX / X Series

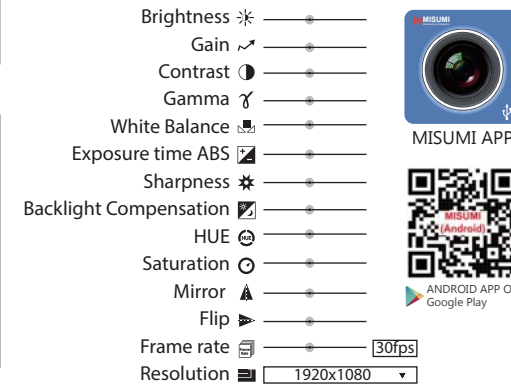
Lens	N/A	120°	120° (with LED)
B164A03 Front View Board Type	8 Ø 3	10.4 Ø 3	10.4 Ø 3.5 Coming Later
T164A03 Front View Forming Type	8.3 Ø 3 Coming Later	10.4 Ø 3 Coming Later	10.4 Ø 3.5 Coming Later

FT / T Series

Lens	N/A	120°	120° (with LED)
BL164A03S Side View Board Type	3.1 1.5	16.9 3.1 3.6 Coming Later	16.9 3.1 3.6 Coming Later
B164A03 Front View Board Type	9.6 Ø 3 Coming Later	12.4 Ø 3 Coming Later	12.4 Ø 3.5 Coming Later

Camera Parameter Adjustable (MISUMI APP)

Camera parameter can be adjusted on the smartphone via the Misumi app and PC viewer software AMCAP.




NOTE for MISUMI APP:
UVC Camera does not support Android 10

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

For example:
Our extremely lightweight 1920 x 1080 (1080p) 1/6" CMOS UVC glasses camera is 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.



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