

Specification

Model series	SY	TY	K Series	FT Series	T Series
Snapshot and freeze frame	●	N/A	N/A	N/A	●
Feature	Low temperature		Short camera head	Mini size	
Camera shape	T shape		Round shape	Rectangle shape	
Orientation	Front view		Front view	Side view	
Interface	USB 3.0		USB 2.0		
Resolution	1280 x 720 @ 60fps		1280 x 720 @ 15~30fps		
Video format	MJPEG / YUV				
Image sensor	1/11" CMOS Color Camera Module				
Pixel size (μm)	1.116 x 1.116				
Image area (mm)	1.446 x 0.91				
Scan mode	Progressive				
Sensitivity	4500 e ⁻ /(Lux·sec)				
Dynamic range	72.2dB @16x gain				
Storage temperature	-30 to 60 Degree C				
Working temperature	-30 to 80 Degree C				
Lens (specify which lens)	65° lens	1.32 mm / F 2.0 1.32 mm / F 3.5 (H= 69°; V= 42° ; D= 65°)			
	120° lens	0.878 mm / F 5.0 (H=95.1°;V=56.2°;D=120°)			
Power source	DC 5 V (USB)				
Power current	No LED / 160 mA with LED × 6 / 190 mA				

*Camera image setting on smartphone

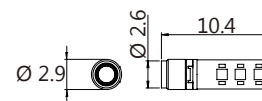
Series Compare	Series	164A03	164B03
	Pixel Size	1.116 x 1.116	1.12 x 1.12
	Image Area	1.446 x 0.91	1.43 x 0.81

SERIES	CONNECTOR	CAMERA TYPE	DISPLAY	LED	LENS
SY Low temperature with snapshot and freeze frame (USB 3.0)	D USB type A T USB type C	B Board type VB Board type + dimmer T Tube type V Tube type + dimmer S Glue molding type VS Glue molding type + dimmer	164A03 Color 164AM3 B/W	LH High-intensity white LED L9 IR 940 nm LED L8 IR 850 nm LED	65 1.32 mm / F 2.0 (65°) 65 1.32 mm / F3.5 (65°) 120 0.878 mm / F5.0 (120°)
* IR 940nm or IR 850nm LED suggest to choose B/W camera type * Camera with LED light source suggest to use larger number of F-stop					

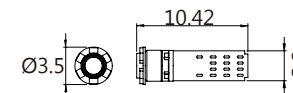
SY / TY Series

Unit: +0.1 / -0 mm

Model: B164A03-120
Board type / 120° lens



Model: B164A03LH-120
Board type / 120° lens / With LED



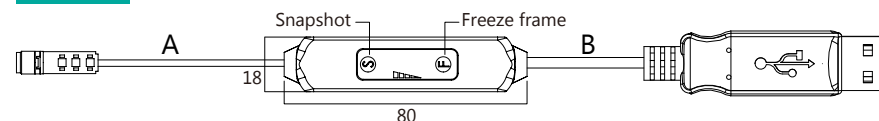
Model: S164A03
Glue molding type / No lens



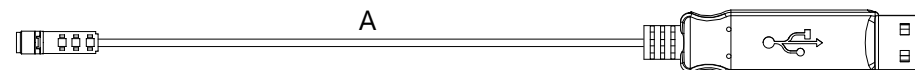
Model: S164A03-120
Glue molding type / 120° lens



SY Series



TY Series



A	Cable length	Cable OD
1	100~200 (cm)	1.7 +0.1 (mm)
2	100~200 (cm)	1.9 +0.1 (mm)
3	100~400 (cm)	2.8 +0.1 (mm)

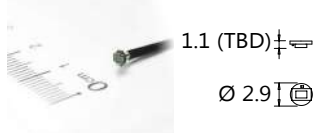
B	Cable length	Cable OD
1	10~200 (cm)	1.7 +0.1(mm)
2	10~400 (cm)	2.8 +0.1(mm)
3	10~1000 (cm)	3.5 +0.1(mm)
4	10~1500 (cm)	5.0 +0.1(mm)

SYD-B164A03LH-120

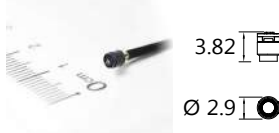
K Series

Unit: +0.1 / -0 mm

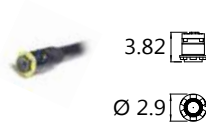
Model: B164A03
No lens



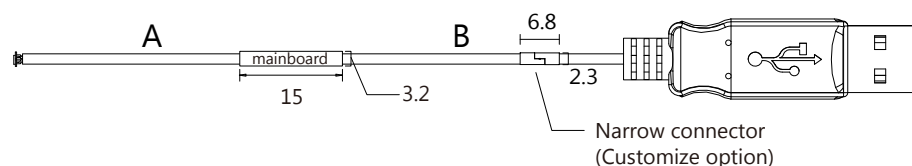
Model: B164A03-120
120° lens



Model: B164A03LH-120
120° lens / With high-intensity LED



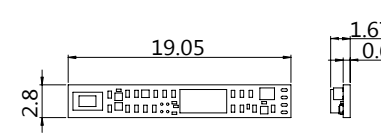
K Series



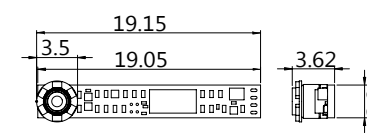
FT / T Series

Unit: +0.1 / -0 mm

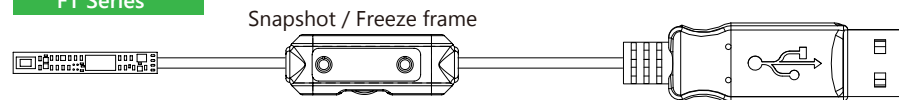
Model: BL164A03
No lens



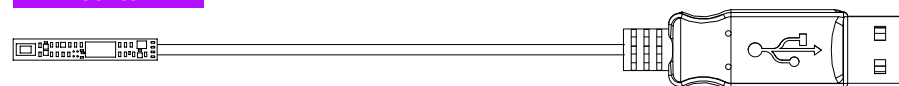
Model: BL164A03
120° lens / With high-intensity LED



FT Series



T Series



A	Cable length	Cable OD
1	30 (cm)	1.9 + 0.1 (mm) Standard
2	10~400 (cm)	1.9 + 0.1 (mm)

B	Cable length	Cable OD
1	10~150 (cm)	0.35 + 0.1(mm) Enameled wire
2	10~200 (cm)	0.9 + 0.1 (mm)
3	10~200 (cm)	1.5 + 0.1 (mm)
4	10~200 (cm)	1.7 + 0.1 (mm)
5	10~400 (cm)	2.8 + 0.1 (mm)
6	10~1000 (cm)	3.5 + 0.1 (mm)
7	10~1500 (cm)	5.0 + 0.1 (mm)

	Cable length	Cable OD
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6	10~1000 (cm)	3.5 + 0.1 (mm)
7	10~1500 (cm)	5.0 + 0.1 (mm)

KD-BL164A03LH-120

SERIES	CONNECTOR	CAMERA TYPE	DISPLAY	LED	LENS
K Short Camera Head (USB 2.0)	D USB type A M Micro USB OTG type B T USB type C	Front view B Board Type VB Board Type + Dimmer T Tube Type V Tube Type + Dimmer	164A03 Color 164AM3 B/W	LH High-intensity white LED L9 IR 940 nm LED L8 IR 850 nm LED	65 1.32 mm / F 2.0 (65°) 65 1.32 mm / F 3.5 (65°) 120 0.878 mm / F 5.0 (120°)

* IR 940nm or IR 850nm LED suggest to choose B/W camera type
* Camera with LED light source suggest to use larger number of F-stop

TD-BL164A03LH-120

SERIES	CONNECTOR	CAMERA TYPE	DISPLAY	LED	LENS
T Advance (USB 2.0) FT Advance with snapshot and freeze frame (USB 2.0)	D USB type A M Micro USB OTG type B T USB type C	Side View BL Board Type VBL Board Type + Dimmer TL Tube Type VL Tube Type + Dimmer	164A03 Color 164AM3 B/W	LH High-intensity white LED L9 IR 940 nm LED L8 IR 850 nm LED	65 1.32 mm / F 2.0 (65°) 65 1.32 mm / F 3.5 (65°) 120 0.878 mm / F 5.0 (120°)

* IR 940nm or IR 850nm LED suggest to choose B/W camera type
* Camera with LED light source suggest to use larger number of F-stop