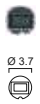
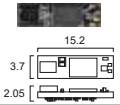
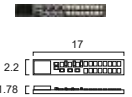
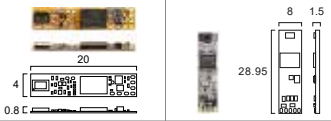
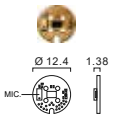
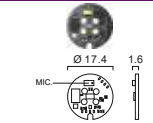
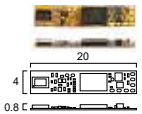
Unit: ± 0.5 mm

Feature

Miniature Size | 1080p Image pixel | Outstanding Quality

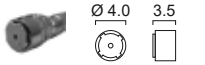
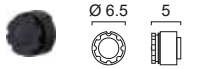
Specification

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

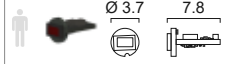
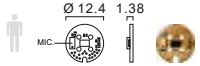
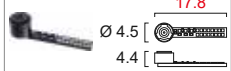
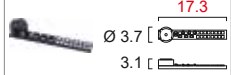
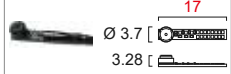
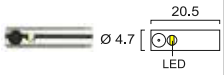
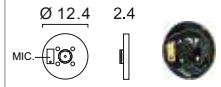
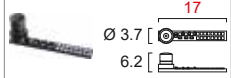
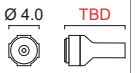
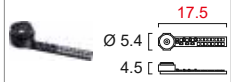
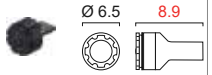
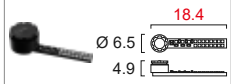
		H.264			FPC	H.264	H.264 Button & Screw	Button & Screw	*Cropping
											
Model No.		B24604			BL24604	BL24602S	SL246S4S	S24608SU	S24612RUA	B24617RUA	SL170S4S
Series		K	Y X H	T	T	X	T	P	Y X H	T	T
Dimensions (mm)		Ø 3.7	Ø 3.7 x 7.8	Ø 3.7 x 13.2	3.7 x 15.2	2.2 x 17	4 x 20	8 x 28.95	Ø 12.4 x 2.4	Ø 17.4 x 1.6	4 x 20
Orientation		Front View			Side View			Up View			Side View
Camera Type		Board Type					Forming Type			Board Type	Forming Type
Video Format		MJPG / YUV / H.264									MJPG
Image Sensor		1/7.25 " Color CMOS Camera Module									1/10.56 " Color
Resolution	USB 2.0	1920 x 1080 @ 30 fps MJPEG / H.264 / 5 fps YUV									1080 x 1080 @ 30 fps
	USB 3.0	1920 x 1080 @ 60 fps MJPEG / YUV						N/A			
Pixel Size (um)		1.116 × 1.116									
Image Area (mm)		2.14272 × 1.20528									1.21 x 1.21
Sensitivity (Lux.Sec)		4240 e^- / Lux-sec									
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						USB 2.0			
Power Supply		DC 5 V									
Power Current		190 mA (Max.), TBD mA (with LED)									
Microphone		N/A (External Optional)							Built-In		N/A (External Optional)
Operation System		Win XP, Win Vista, Win 7, Win 8, Win 10, Linux, MAC OSX									

Unit: ± 0.5 mm

SERIES K Low Working Temperature Typically 41°~45°C Range

Lens	Front View B24604 Board Type
N/A	
55°	
83°	
88°	
95°	
120°	
139°	

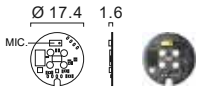
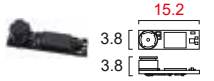
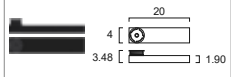
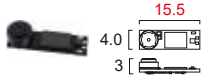
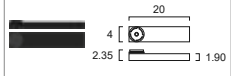
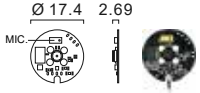
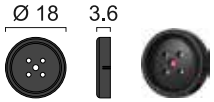
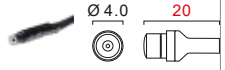
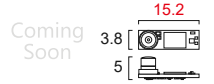
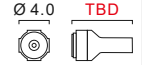
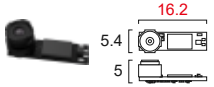
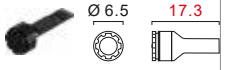
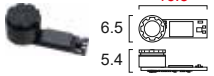
SERIES Y X H

Lens	Front View B24604 Board Type	Front View T24604LH Tube Type (LED Light)	Side View BL24602S Board Type (Single Board)	Side View TL24604LI Tube Type (LED Light)	Up View B24612RUA Board Type (FPC / Microphone / H.264)	Up View S24612RUA Forming Type (FPC / Microphone / H.264)	Up View R24631UA Button & Screw (FPC / Microphone / H.264)
N/A		N/A		N/A		N/A	N/A
55°		Coming Soon		Coming Soon	N/A	N/A	N/A
83°				Coming Soon	N/A	 Coming Soon	N/A
88°		Coming Soon			N/A		
95°		Coming Soon		Coming Soon	N/A	N/A	N/A
120°	Coming Soon 	Coming Soon		Coming Soon	N/A	N/A	N/A
139°		Coming Soon		Coming Soon	N/A	N/A	N/A

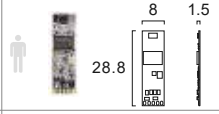
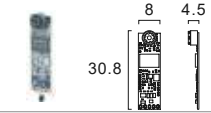
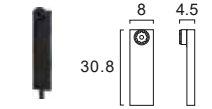
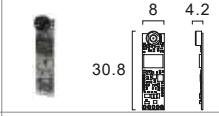
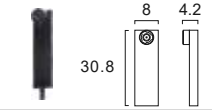
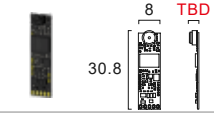
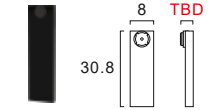
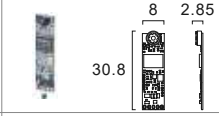
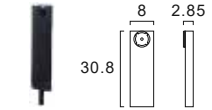
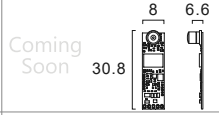
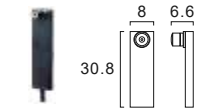
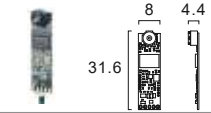
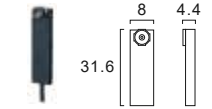
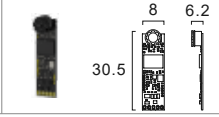
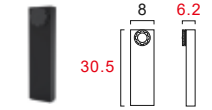
* **B24612RUA** Bare board is a flexible printed circuit (FPC), hence glue needs to be applied.

Unit: ± 0.5 mm

SERIES T

Lens	Front View	Side View		Up View		
	B24604 Board Type	BL24604 Board Type	SL246S4S Forming Type (FPC / Single Board)	B24617RUA Board Type (Microphone)	S24617RUA Forming Type (Microphone)	R24625UA Button & Screw (Microphone)
N/A			N/A		N/A	N/A
55°			Coming Soon	N/A	N/A	N/A
83°				 Coming Soon	 Coming Soon	N/A
88°					 Coming Soon	
95°		Coming Soon 	Coming Soon	N/A	N/A	N/A
120°	Coming Soon 		Coming Soon	N/A	N/A	N/A
139°			Coming Soon	N/A	N/A	N/A

SERIES P

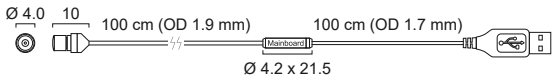
Lens	Up View	
	B24608SU Board Type (Single Board / H.264)	S24608SU Forming Type (Single Board / H.264)
N/A		N/A
46°		
55°		
83°		
88°		
95°	Coming Soon 	
120°		
139°		

Unit: ± 0.5 mm

B24604

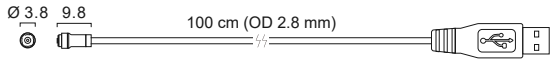


▲ KD-B246M4-95



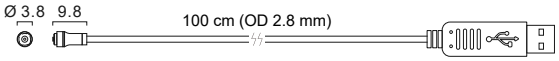


▲ XD-B24604-88



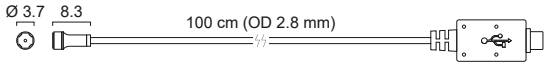


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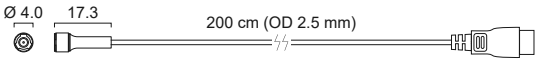


▲ HT-B24604-88



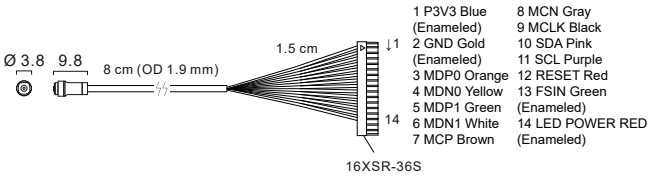


▲ TT-B24604-41





▲ XR-B24604-88-(xx)

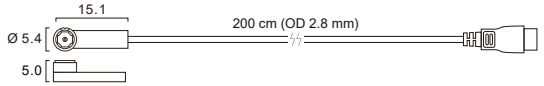


1 P3V3 Blue (Enameled)	8 MCN Gray
2 GND Gold (Enameled)	9 MCLK Black
3 MDP0 Orange	10 SDA Pink
4 MDN0 Yellow	11 SCL Purple
5 MDP1 Green	12 RESET Red
6 MDN1 White	13 FSIN Green (Enameled)
7 MCP Brown	14 LED POWER RED (Enameled)

BL24604



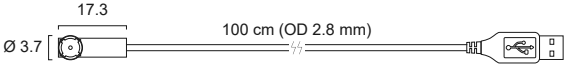
▲ TT-BL24604-120



BL24602S



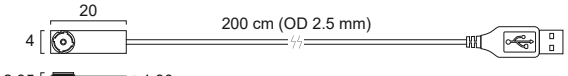
▲ XD-BL24602S-88



SL246S4S



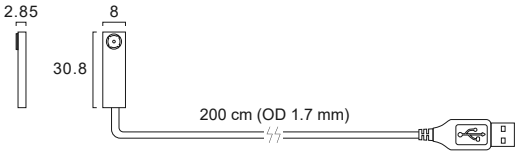
▲ TD-SL246S4S-88



S24608SU



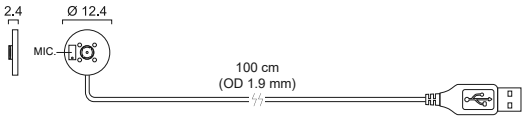
▲ PD-S24608SU-88



S24612RUA



▲ XD-S24612RUA-88



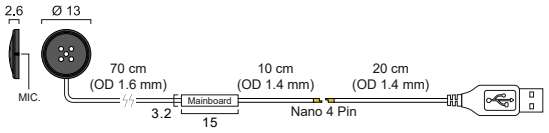
Hidden Camera

Unit: ± 0.5 mm

R24631RUA

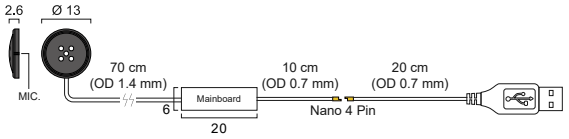


▲ XD-R24631UA-88





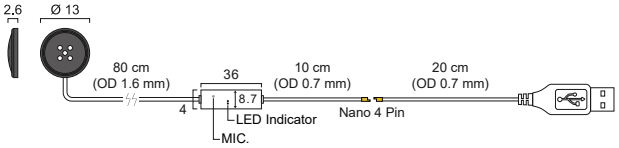
▲ HD-R24631UA-88



Wireless Connectivity Series.

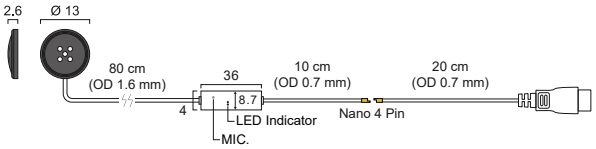


▲ BXD-R24631UA-88



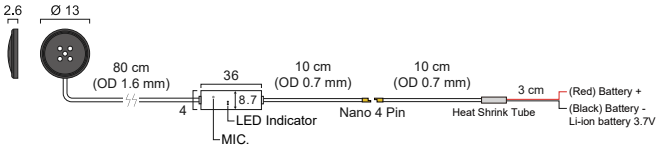


▲ BXT-R24631UA-88





▲ BX-R24631UAC-88



R24625RUA



▲ TD-R24625UA-88

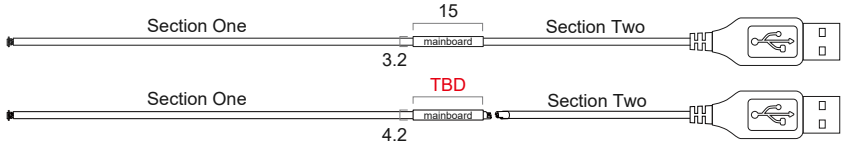


Unit: ± 0.5 mm

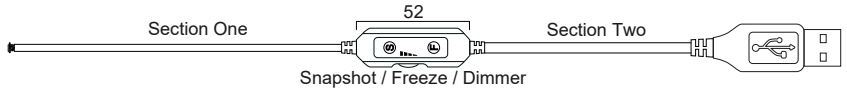
CABLE

Please check cable information for Section One and Section Two.

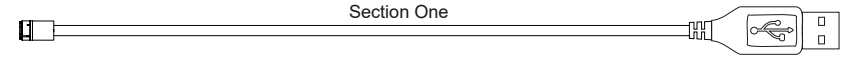
K



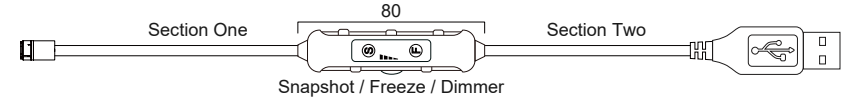
FK



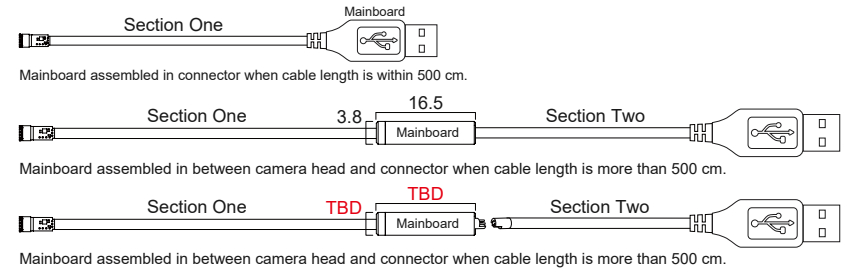
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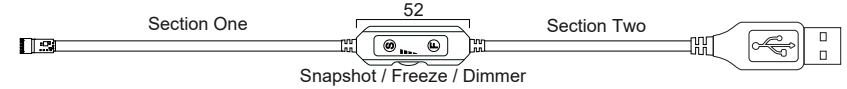
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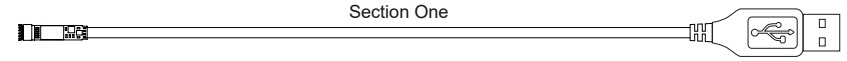
X



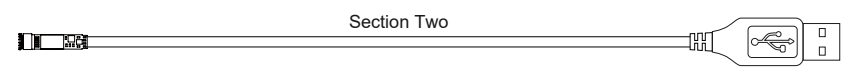
FX



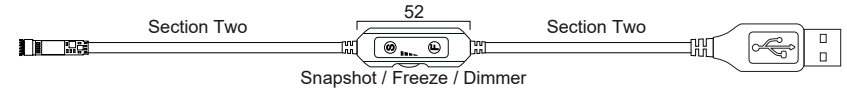
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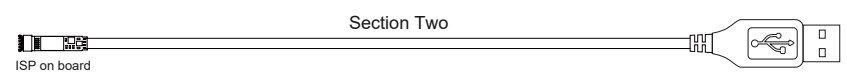
T



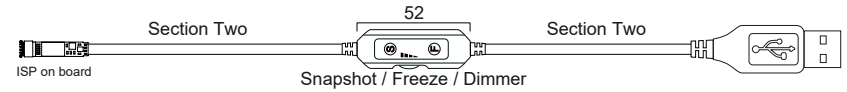
FT



P



FP



Section Two (Max. 7 Pin)

OD (mm)	Length (cm)	Series
0.7 #28 x 4C	10~100	K X H T P
0.8 #34 x 4C	10~100	
1.4 #28 x 4C	10~1000	
1.4 #30 x 4C	10~600	
1.6 #28 x 4C	10~1000	
1.7 #36 x 9C	10~500	
2.8 #30 x 7C	10~900	
3.6 #28 x 7C	10~900	
4.5 #24 x 9C	10~1000	
3.6 #28 x 11C	10~250	Y

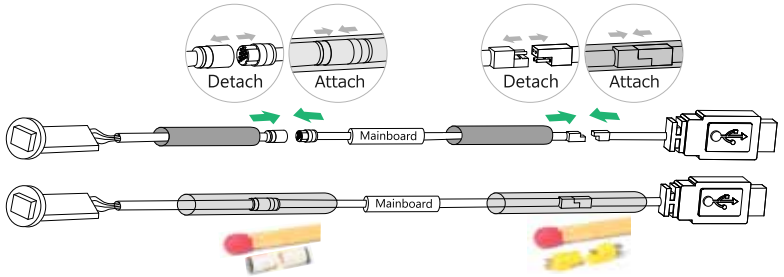
Section One (Max. 13 Pin)

OD (mm)	Length (cm)	Series
1.7 #36 x 13C	10~100	H P
1.9 #36 x 15C	10~150	Y
	10~250	K H P
	10~550	X
2.8 #32 x 15C	10~300	H P
	10~450	Y
	10~500	K
	10~600	X
2.8 #34 x 13C	10~500	H P
	10~500	Y
	10~800	K
	10~800	X
3.8 #30 x 17C	10~450	Y
	10~500	K

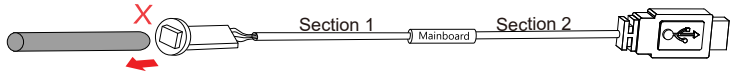
Detachable Nano Connectors *(Customize Option)*

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.

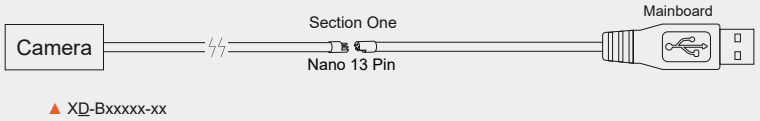


★ Each segment can be modified by customer request.

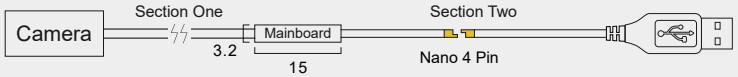
Unit: ± 0.5 mm

Wiring Architecture

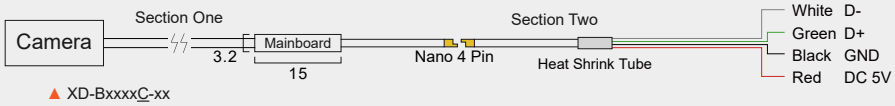
Customizable Wiring / Detachable Nano-Connector Options.



▲ XD-Bxxxxx-xx



▲ XD-Bxxxxx-xx



▲ XD-BxxxxC-xx

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



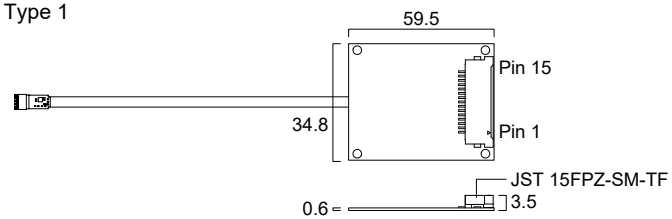
▲MP-WF580KP

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.

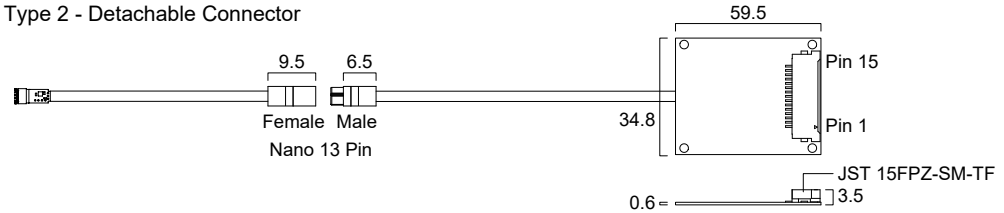
Raspberry Pi (RPi) / MIPI CSI-2

(Available for X Series Only)

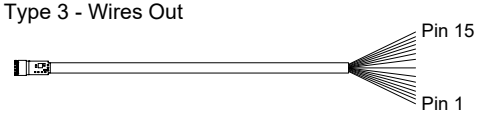
Type 1

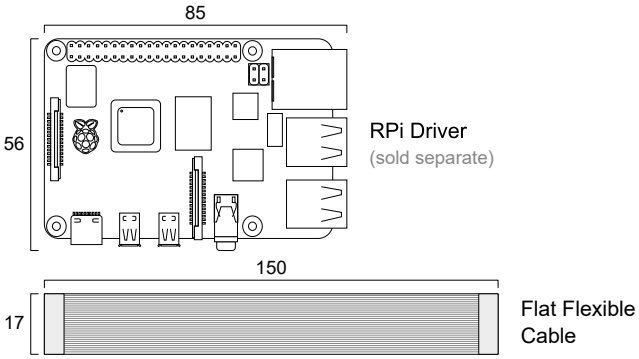


Type 2 - Detachable Connector



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			

Unit: ± 0.5 mm

MT-B24604ALH-81

SERIES

USB 3.0
(F)Y Low Temp.

USB 2.0
(F)K Short Head
(F)X Low Temp.
(F)T Advance

H.264 USB 2.0
(F)H Low Temp.
(F)P ISP on board

Wireless
BX RF 2.4 GHz (Low Temp.)

*F Snapshot and Freeze Frame

CONNECTOR

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)

CAMERA BODY

Front View
(V)B Board Type
T Tube Type
V Tube Type

Side View
(V)BL Board Type
TL Tube Type
VL Tube Type

Up View
(V)S Forming Type
R Button Screw

*V Dimmer Controller

DISPLAY

Front View

Color	B/W	Dimensions	
24604	246M4	Ø 3.7	(K)
		Ø 3.7 x 7.8	(Y / X / H)
		Ø 3.7 x 13.2	(T)

Side View

Color	B/W	Dimensions	
24604	246M4	3.7 x 15.2	(T)
24602S	246M2S	2.2 x 17	(X)
246S4S	246MS4S	4 x 20	(T)
170S4S	170MS4S	4 x 20	(T)

Up View

Color	B/W	Dimensions	
24608SU	246M8SU	8 x 28.95	(P)
24612RU	246M12RU	Ø 12.4	(Y / X / H)
24617RU	24617RU	Ø 17.4	(T)

*U Up View
*S Single Board
*S FPC (Forming Type Only)
*R Round Shape

MICROPHONE

N/A None
A External

LED

N/A None

White
L Normal
LH High-Intensity
LI High-Intensity (One Pcs)

Infrared
L9 IR 940 nm
L8 IR 850 nm

END SIDE

N/A Cable + Connector
C Cable + Wires Out

LENS

Code	Specification	View Angle 246	View Angle 170
45	2.86 mm / F 5.0	45°	N/A
	2.88 mm / F 4.8		
46	2.88 mm / F 2.0	46°	N/A
	2.88 mm / F 6.0		
52	2.46 mm / F 5.0	52°	N/A
55	2.34 mm / F 4.7	55°	N/A
	2.34 mm / F 2.2		
62	1.99 mm / F 5.0	62°	N/A
81	1.42 mm / F 2.0	81°	N/A
	1.418 mm / F 4.7		
83	1.418 mm / F 4.3	83°	62°
	1.418 mm / F 4.0		
88	1.25 mm / F 4.7	88°	N/A
	1.25 mm / F 2.2		
95	1.06 mm / F 4.5	95°	N/A
120	0.94 mm / F 4.5	120°	N/A
	0.77 mm / F 4.0		
139	0.77 mm / F 2.4	139°	N/A

* 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

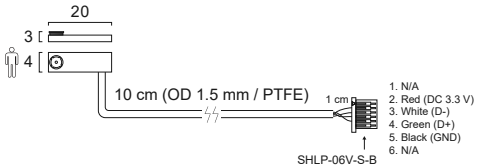

TE Industrial Mini I/O Type II (2040008-2) (USB 2.0 Only)

Unit: ± 0.5 mm

Customize

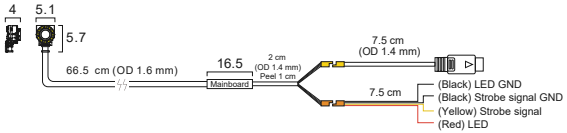


▲ TD-SL246MS4S-83-(xx)



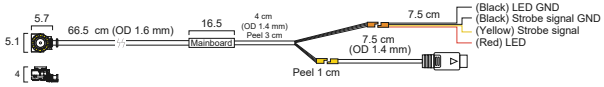


▲ XT-B24605ULH-83-(xx)





▲ XT-BL24605LH-83-(xx)





▲ KT-B24604LH-83-(xx)

