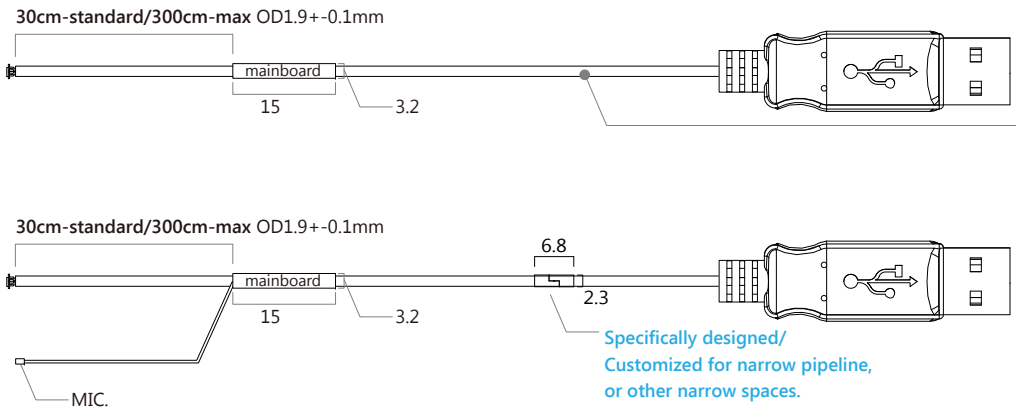
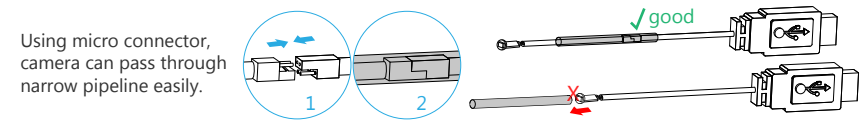


Dimension(+0.1/-0mm)

<p>Model: KD-B31105x 1080p, no lens</p> <p>1.3+0.1(TBD) </p> <p>Ø4.9 </p>	<p>Model: KD-B31105x-77 1080p, 77° lens</p> <p>3.3+0.1(TBD) </p> <p>Ø4.9 </p>	<p>Model: KD-B31105x-88 1080p, 88° lens</p> <p>4.8+0.1(TBD) </p> <p>Ø4.9 </p>	<p>NO. KD-B31105x-93 1080p, 93° lens</p> <p>5.1+0.1(TBD) </p> <p>Ø5.2 </p>	<p>NO. KD-B31105x-158 1080p, 158° lens</p> <p>6.3+0.1(TBD) </p> <p>Ø6.5 </p>
<p>Model: KD-B20903x 720p, no lens</p> <p>1.4 </p> <p>Ø3.2 </p>	<p>Model: KD-B20903x-76 720p, 76° lens</p> <p>3.6 </p> <p>Ø3.5 </p>	<p>Model: KD-B20903x-128 720p, 128° lens</p> <p>4.2(TBD) </p> <p>Ø3.5(TBD) </p>	<p>NO. KD-B20903x-140 720p, 140° lens</p> <p>6.7(TBD) </p> <p>Ø3.6(TBD) </p>	
<p>Model: KD-B164A03x 720p, no lens</p> <p>1.1(TBD) </p> <p>Ø2.9 </p>	<p>Model: KD-B164A03x-120 720p, 120° lens</p> <p>4(TBD) </p> <p>Ø2.9 </p>	<p>Model: KD-B164B03x 720p, no lens</p> <p>1.1(TBD) </p> <p>Ø3.24 </p>	<p>Model: KD-B164B03x-120 720p, 120° lens</p> <p>3.6(TBD) </p> <p>Ø3.24 </p>	



Item	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)



Specification

Model	KD-B31105		KD-B20903		KD-B164A03		KD-B164B03	
Dimension(mm)	Ø4.9		Ø3.2		Ø2.9		Ø3.24	
Pixel size(µm)	1.4 x 1.4		1.4 x 1.4		1.116 x 1.116		1.12x1.12	
Image sensor	1/9" Digital CMOS color		1/9" Digital CMOS color		1/11" Digital CMOS color		1/11" Digital CMO color	
Image area(mm)	2.7288 x 1.5498		1.819 x 1.033		1.44634 x 0.91066		1.43 x 0.81	
Sensitivity	553 mV/(Lux-sec)		585 mV/(Lux-sec)		4500 e-/(Lux-sec)		TBD	
Dynamic range	73.3 dB @ 15.5x gain		68.4dB @16x gain		72.2dB @16x gain		TBD	
Lens (specify which lens)	77° lens	1.83mm/ F2.0/ 5.0/ 8.0 H= 69°; V= 43°; D= 77°	76° lens	1.32mm/F2.0 ; 1.32mm/F3.5 H= 69°; V= 42° ; D= 76°		0.878mm/F5.0 (120° lens) H=95.1°;V=56.2°;D=120°	0.878mm/F5.0 (120° lens) H=95.1°;V=56.2°;D=120°	
	88° lens	1.55mm/ F5.7/ 8.0/ 10 H=48.4°; V=78.3°; D=86.8°		128° lens	1.00mm/F4.8 (128° lens) H= 118°; V= 76°; D= 128° (128° lens)			
	93° lens	1.5mm/F4.0/F5.7 H=81°90';V=50°18';D=92°82'	140° lens		F4.0 (140° lens) D=140° (140° lens)			
	158° lens	1.523mm/ F4.8/ 6.0/ 8.0 H=132°; V=65° ; D=158°						
Max. frame rate	1920 x 1080 @30fps		1280 x720 @30fps		1280 x720 @30fps		1280 x720 @30fps	
Power source	DC 5V/ 160mA		DC 5V/ 120mA		DC 5V/ 120mA		DC 5V/ 120mA	
Storage temperature	-30 to 60 Degree C							
Working temperature	-10 to 45 Degree C							
Interface	USB 2.0							
Scan mode	progressive							
UVC format	MJPEG / YUV							
LED	white/IR 940nm/IR 850nm -specify when ordering)							
LED dimmer	specify when ordering							
Operating system	Windows XP, windows Vista, window 7, windows 8, windows 10, Linux, MAC OSX							
Camera parameter setting on smartphone	support							
Microphone	specify when ordering (KD-B31105A , KD-B20903A, KD-B164A03A, KD-B164B03A)							

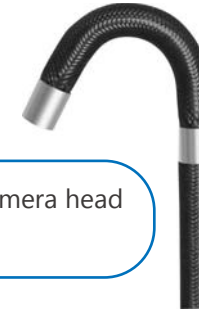
MINI

Miniature Size

Ultra Tiny Size Is Perfect For Articulation Borescope!

Short camera size perfect for medical endoscopes, borescopes or other small diameter inspection devices with 720p high resolution!

Ultra Short Camera head
Good!



MISUMI "KD" series



Other brand camera Module

720p

Resolution

720p Excellent Image Quality !

Camera with 1280 x 720 HD resolution.
Tiny size and high performance and outstanding quality

Low

Low Temperature

Low Temperature !

Low temperature(no LED) is perfect for medical equipment !

Model: KD-B20903L-76
with 6 pcs LEDs





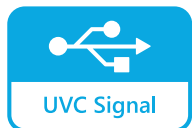
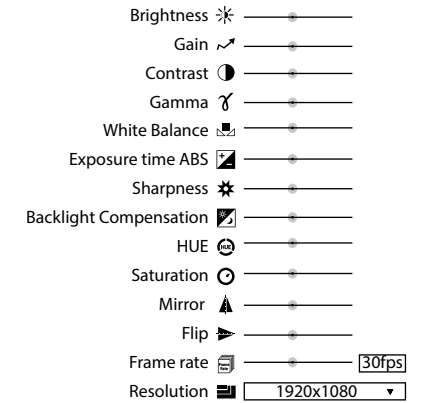
Dimmerable Function

1. With dimmer function, or 2. Without dimmer function (on/off)
With dimmer function user can adjust camera brightness according to the environment.



Camera Parameter Adjustable

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



UVC Signal Output !

The connector is available at USB A type, Micro USB OTG B type, USB type C or customized for specify when ordering.

