Unit: ± 0.5 mm

Feature

- Mini Size,
- High Sensitivity,
- High Performance!

B2010LH (120°)



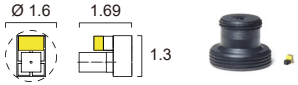
B2000 (120°)



BL2000 (120°)



B2000LH (120°)



BL2000LH (120°)



Specification

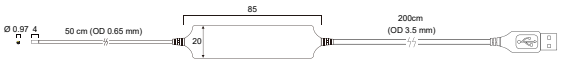
Model No.		B2000	B2000LH	BL2000	BL2000LH	B2010LH
Dimensions (mm)		Ø 0.91 x 1.17	Ø 1.6 x 1.69	0.91 x 2.15	0.91 x 3.35	Ø 2.8
Orientation		Front View				
Camera Type		Board Type				
Video Format		MJPEG / YUV (UVC); NTSC / PAL (CVBS)				
Image Sensor		1/31" Color CMOS / 1/63" Color CMOS				
Resolution	1/31"	400 x 400 @ 30 fps				
	1/63"	200 x 200 @ 30 fps				
Pixel Size (um)		1.008 x 1.008				
Image Area (mm)		0.41 x 0.41				
Sensitivity (Lux.Sec)		325 mV				
Dynamic Range		55 dB @ 1x gain				
S/N Ratio		36.1 dB				
Scan Mode		Progressive				
Shutter		Rolling				
Lens		0.175 mm / F 2.8				
View Angle	1/31"	120°				
	1/63"	78°				
Focus Distance (mm)		15-03-30				
LED		N/A	LED x 1	N/A	LED x 2	
Storage Temp.		-30 to 60 Degree C				
Working Temp.		-10 to 60 Degree C				
Interface		USB 2.0; CVBS				
Power Supply		5V (UVC) / 5~12 V (CVBS)				
Power Current		120 mA (Max.)				
Microphone		N/A				
Operation System (UVC)		Win XP, Win Vista, Win 7, Win 8, Win 10 Linux, MAC OSX				

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

2000



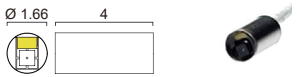
▲ MD-T2000-120



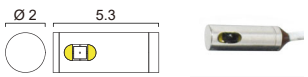
T2000-120 (120°)



T2000LH-120 (120°)



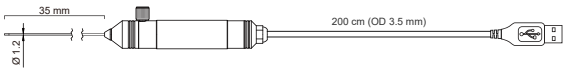
TL2000LH-120 (120°)



2000xxZ



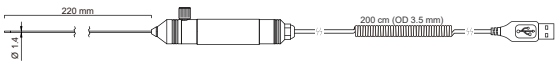
▲ MD-V200012ZLG-120



IP67 Waterproof

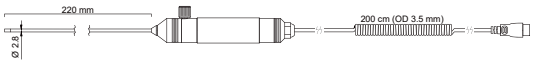


▲ MD-V200014ZLG-120





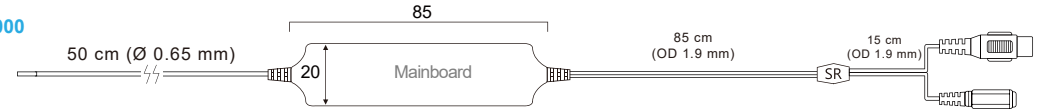
▲ MT-V2000ZLF-120



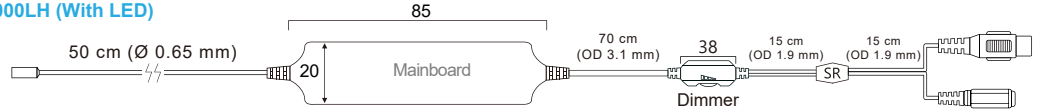
Unit: ± 0.5 mm

CVBS

MO-T2000

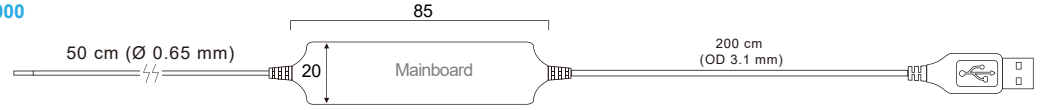


MO-V2000LH (With LED)

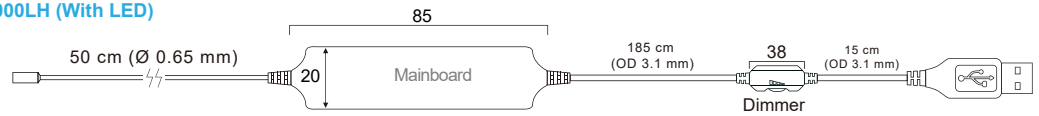


UVC

MD-T2000



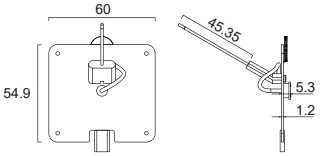
MD-V2000LH (With LED)



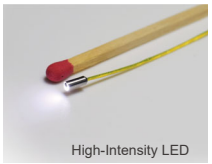
Customize

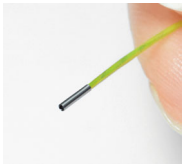


▲ MT-V2000LF-120 (-xx)













Built-in High Intensity LED

Dimmable

Camera with high intensity LED is designed for medical and industrial applications.

Two options for camera LED:
1. With dimmer controller user can adjust camera brightness.
2. On / Off switch controller

Ultra Tiny Size and Excellent Image Quality

MINI
Miniature Size

1/31" CMOS (OCHTA10) image camera with 400 x 400 pixel. Tiny dimension perfect for medical endoscopes, borescopes or other small diameter inspection devices.

Analog / Digital Signal Output

CVBS
Signal

UVC
Signal

Two types of signals (analog / digital) for your choice. Driver free for any OS(Windows, MAC OS, Linux) as digital camera signal output version.

Medical Application Ideas

Medical Idea

Tiny dimension perfect for medical endoscopes, borescopes or other small diameter inspection devices.

Compact size camera enable easy and comfortable inspection process; instead of tedious inspection process caused by traditional larger size cameras.

Unit: ± 0.5 mm

MD-V2000LH-120D

SERIES

- (F)M Basic
- *F Snapshot and Freeze Frame (for UVC only)

CONNECTOR

CVBS
- O RCA / DC
- J Phone Jack
- Q M8 Waterproof

UVC (USB)
- D Type A
- T Type C
- E TE Industrial Mini I/O Type II (2040008-2) (USB 2.0 Only)

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

*V Dimmer Controller

DISPLAY

Color	Dimensions	
2000	Ø 0.91 x 1.17	
2010	Ø 2.8	
2000(Z)	Ø 2.8 x 220	(Handle Bar)
200012(Z)	Ø 1.2 x 35	(Handle Bar)
200014(Z)	Ø 1.4 x 220	(Handle Bar)

*Z Rigid Steel

MICROPHONE

- N/A None

LED

- N/A None

White
- LH High-Intensity

2000Z

White
- LF High-Intensity (with Optical Plastic Fiber)
- LG High-Intensity (with Optical Glass Fiber)

LENS

Code	Specification	View Angle
78	0.175 mm / F 2.8	78° (1/63")
120		120°

CABLE

Code	O.D	Length (Max)	Note
D	Ø 0.65	150 cm	Available To Add LED
I	Ø 1.0	220 cm	LED Unavailable
S	Ø 1.3	200 cm	Available To Add LED

* Cable OD unit mm
* Cable code does not apply to rigid steel tube

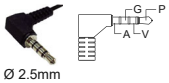
* Camera with LED light source is suggested to use lens with larger F-Stop number.
* Camera appearance or other requirements are applicable for customization.
* TE Industrial Mini I/O Type II connector does not support USB 3.0 output.

Connector Information


USB Type A


USB Type C


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



Phone Jack



M8 Waterproof


RCA / DC

NOTE:
G GND
A AUDIO
P DC POWER
V VIDEO