Unit: ± 0.5 mm

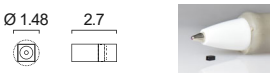
Feature

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

B1001 No Lens



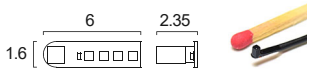
B1001-120 (120°)



BL1001-91 (91°)



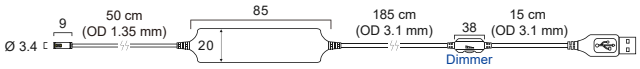
BL1001-120 (120°)



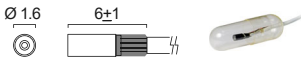
1001



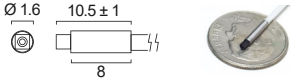
▲ MD-VL1001LH-120X



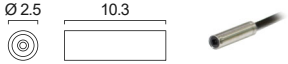
B1001-91 (91°)



T1001-120 (120°)



V1001LH-120 (120°)

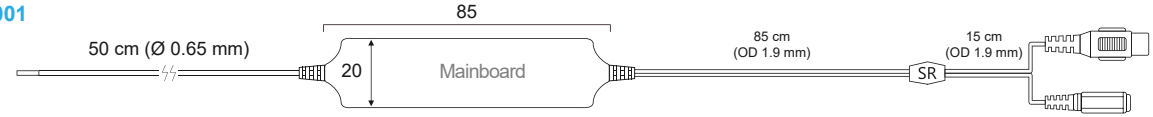


VL1001LH-120 (120°)

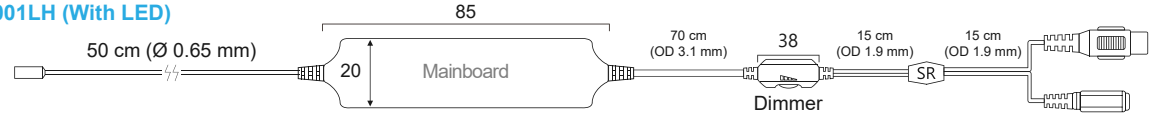


CVBS

MO-T1001

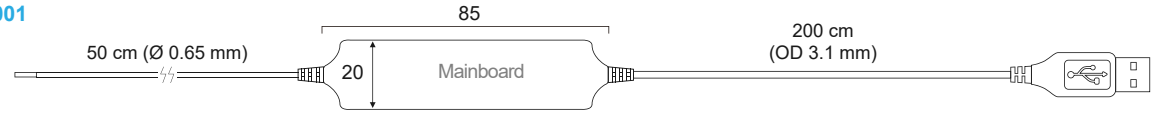


MO-V1001LH (With LED)

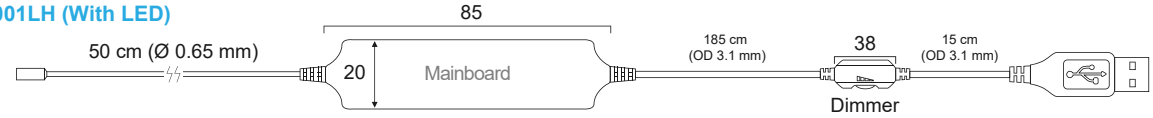


UVC

MD-T1001



MD-V1001LH (With LED)

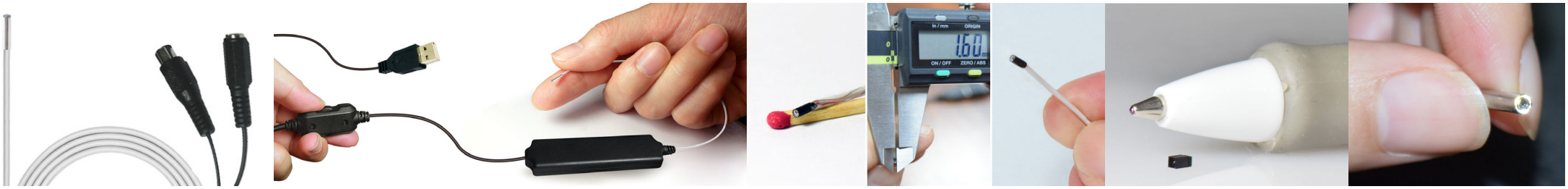


Specification

Model No.	B1001	BL1001
Dimensions (mm)	Ø 1.48	1.6 x 6
Orientation	Front View	Side View
Camera Type	Board Type	
Video Format	MJPEG / YUV (UVC); NTSC / PAL (CVBS)	
Image Sensor	1/18" Color CMOS Camera Module	
Resolution	400 x 400 @ 30 fps	
Pixel Size (um)	1.75 x 1.75	
Image Area (mm)	0.74 x 0.71	
Sensitivity (Lux.Sec)	1000 mV	
Dynamic Range	65.8 dB @ 4x gain	
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; CVBS	
Power Supply	5V (UVC); 5~12 V (CVBS)	
Power Current	170 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.

Unit: ± 0.5 mm



Dimmable

Light Guide / 3 pcs White LED

Excellent brightness is achieved by emitting maximal 3 LED light to the light guide.
Dimmer switch can adjust brightness according to the environment.

MINI
Miniature Size

Mini Lens / Cable OD Can Be Customized

Ø 1.6 mm lens with 91° wide angle was specially developed for the ultra mini Ø 1.4 mm PCB.

Special cable made of unique material was also developed for better signal transmission.

Maximum cable length can be as long as 140 cm.

Cable OD can be customized as 1 mm, 1.65 mm,1.85 mm depending on customers’ requests.

Medical Idea

Module For Medical Application Ideas

Tiny dimension is perfect for medical endoscopes, borescopes or other small diameter inspection devices. Compact size camera enables easy and smooth inspection process; instead of tedious inspection process caused by traditional larger size cameras. Using light guide to converge LED light, enhance brightness.

CVBS
Signal

UVC
Signal

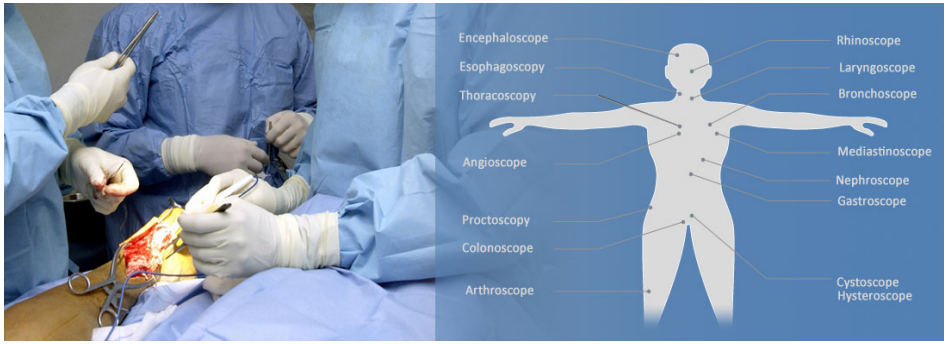
Analog Signal / Digital Signal Output

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

High Quality

Ultra Compact Size and Excellent Image Quality

1/18" CMOS (OV6946) image camera with 400 × 400 pixel and size is 1.6 (mm) only.
Mini dimension is perfect for medical endoscopes, borescopes or other small diameter inspection devices.



Unit: ± 0.5 mm

MD-V1001LH-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
- (V)SL Forming Type
- TL Tube Type
- VL Tube Type

*V Dimmer Controller

DISPLAY

Color	B/W	Dimensions
1001	100M1	Ø 1.48

MICROPHONE

N/A None

LED

N/A None

White
- L Normal
- LH High-Intensity

91° Lens Only

Infrared
- L9 IR 940 nm
- L8 IR 850 nm

LENS

Code	Specification	View Angle
120	0.418 mm / F 5.0	120°
91	0.5 mm / F 3.6	91°
90	0.505 mm / F 4.0	90°

CABLE

Code	O.D	UVC (Max)	CVBS (Max)	Note
D	Ø 0.65	180 cm	180 cm	Available To Add LED
I	Ø 1.0	300 cm	300 cm	LED Unavailable
C	Ø 1.2	180 cm	140 cm	LED Unavailable
S	Ø 1.3	200 cm	200 cm	Available To Add LED
X	Ø 1.35	210 cm	130 cm	Available To Add LED
E	Ø 1.6	600 cm	600 cm	Available To Add LED
B	Ø 1.65	150 cm	130 cm	Available To Add LED
N/A	Ø 1.85	190 cm	160 cm	Available To Add LED

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

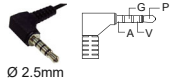
* IR 940nm or IR 850nm LED is suggested to choose B/W camera type.
* Camera with LED light source is suggested to use lens with larger F-Stop number.
* Camera appearance or other requirements are applicable for customization.
* TE Industrial Mini I/O Type II connector does not support USB 3.0 output.

Connector Information


USB Type A


USB Type C


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



Phone Jack



M8 Waterproof


RCA / DC

NOTE:
G GND
A AUDIO
P DC POWER
V VIDEO