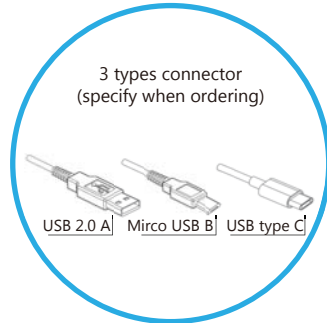
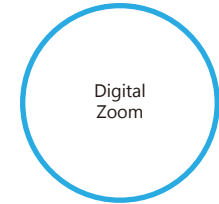


(Camera size depending on the different lens)

Dimension(±0.2mm) & Image						
Model	TD-BL20903	TD-B20903U	TD-B20903	TD-V20903L	TD-B20908R	RD-V20909RL
Type	Modul type	Modul type	Modul type	with Metal enclosure	Modul type	with Metal enclosure
Application	Endoscope/ Inspection / Hidden	Endoscope/ Inspection / Hidden	Endoscope/ Inspection	Endoscope/ Inspection	Inspection/Hidden	Robot/Hidden
Freeze & Snapshot	(specify when ordering)					
Max. frame rate	1280x720@ 30fps MJPG					
Pixel size	1.4 μm x 1.4 μm					
Image sensor	1/9" Digital CMOS Camera Module					
Image area	1.819 x1.033 mm					
Scan mode	progressive					
Sensitivity	585mV/Lux-sec					
Dynamic range	68.4dB @16x gain					
UVC format	MJPEG					
Storage temperature	-30 to 60 Degree C					
Working temperature	-10 to 45 Degree C					
Interface	USB 2.0 (Compliant with USB Video Class 1.1 standard)					
Built-in Lens (specify when ordering)	1.32mm/F3.5 (76° lens) 1.08mm/F4.0 (105° lens) 1.00mm/F4.8 (128° lens) (Camera size depending on the different lens)					
View angle (order in advance)	H= 69°; V= 42° ; D= 76° (76° lens) H= 78°; V= 57°; D= 105° (105° lens) H= 118°; V= 76°; D= 128° (128° lens)					
LED	(specify when ordering-white/IR 940nm/IR 850nm)					
Shutter	rolling shutter					
Operating system	Windows XP, Windows Vista, Window 7, Windows 8, windows 10					
Power source	DC 5V (USB/with power board)					
Power current	120mA					



TD-B20903L-128

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① Connector		② Camera Type		③ Type		④ LED		⑤ LENS	
TD	USB 2.0 A type	B	Board type	20903	color	L	white LED	76	1.32mm/F3.5 (76°) suggest with LED
TM	Micro USB OTG B type	VB	Board type+dimmer function	209M3	B/W	L9	IR940nm LED	76	1.32mm/F2.0 (76°)
TT	USB type-C	BL	Board type (left side view only)	20908R	color (round type)	L8	IR850nm LED	105	1.08mm/F4.0 (105°)
FTD	USB 2.0 A type	VBL	Board type (left side view only)+dimmer function	20903U	color (up view)			128	1.0mm/F4.8 (128°)
FTM	Micro USB OTG B type	T	Tube type	20909R	color (round type-with enclosure)				
FTT	USB type-C	V	Tube type+dimmer function						
RD	USB 2.0 A type								
RM	Micro USB OTG B type								
RT	USB type-C								
FD, FM, FT : with snapshot +freez function								H= 69°; V= 42° ; D= 76° (76° lens) H= 78°; V= 57°; D= 105° (105° lens) H= 118°; V= 76°; D= 128° (128° lens)	
RD, RM, RT : for xx-T20909R only									