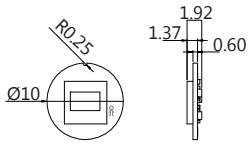
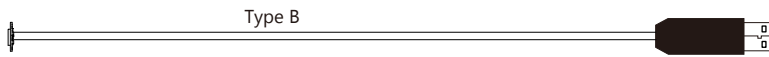
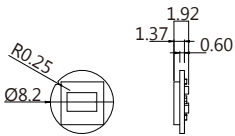


**Model: TD-B441x10R**  
Board type



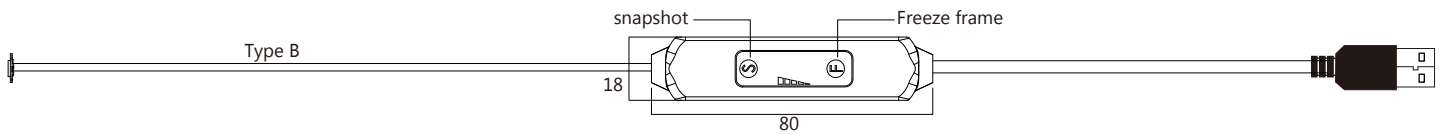
Type A	Cable length	Cable OD
1	10~200 (cm)	1.7 +0.1(mm)
2	10~400 (cm)	2.8 +0.1(mm)
3	10~1000 (cm)	3.5 +0.1(mm)
4	10~1500 (cm)	5.0 +0.1(mm)

**Model: TYD-B441x08R**  
Board type



Type B	Cable length	Cable OD
1	100~400 (cm)	2.8 ±0.1(mm)

**Model: SYD-B441x08R**  
Board type



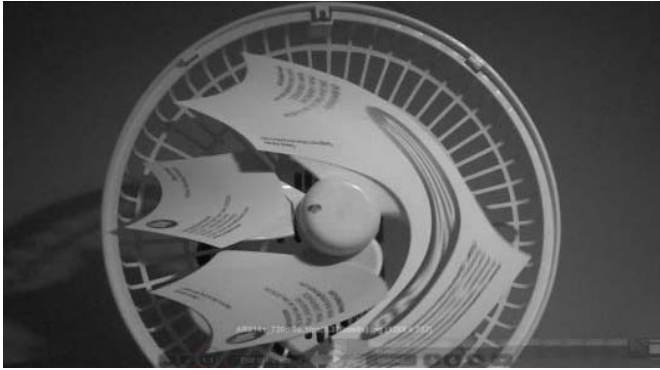
## Specification

Model	xyD-B441A08R	xyD-B441AM8R	TD-B441A10R	TD-B441AM10R	xyD-B441B08R	xyD-B441BM8R	TD-B441B10R	TD-B441BM10R
Image sensor	1/4.1" CMOS Color	1/4.1" CMOS B/W	1/4.1" CMOS Color	1/4.1" CMOS B/W	1/4.1" CMOS Color	1/4.1" CMOS B/W	1/4.1" CMOS Color	1/4.1" CMOS B/W
Responsivity	3.1V/lux-sec	3.6V/lux-sec	3.1V/lux-sec	3.6V/lux-sec	3.1V/lux-sec	3.6V/lux-sec	3.1V/lux-sec	3.6V/lux-sec
Max. frame rate	1280 x 720@ 60fps(MJPEG) 640 x 480@ 60fps(MJPEG) 320 x 240@ 60fps(MJPEG)		1280 x 720@ 30fps(MJPEG) 640 x 480@ 30fps(MJPEG) 320 x 240@ 30fps(MJPEG)		1280 x 720@ 60fps(MJPEG) 640 x 480@ 60fps(MJPEG) 320 x 240@ 60fps(MJPEG)		1280 x 720@ 30fps(MJPEG) 640 x 480@ 30fps(MJPEG) 320 x 240@ 30fps(MJPEG)	
Interface	USB 3.0		USB 2.0		USB 3.0		USB 2.0	
Dimension(mm)	Ø8.2		Ø10		Ø8.2		Ø10	
Chief Ray Angle	20°				0°			
Application	endoscope				security surveillance			
Camera type	front view							
LED dimmer	N/A (specify when ordering)							
Pixel size	3.0 μm x 3.0 μm							
Image area	3.84 x 2.16 mm							
Shutter	global shutter							
SNR	38 dB							
Dynamic range	63.9 dB							
UVC format	MJPEG / YUV							
Storage temperature	-30 to 60 Degree C							
Working temperature	-10 to 45 Degree C							
Lens	specify when ordering							
View angle	specify when ordering							
LED	specify when ordering (LED x 6 -white / IR 940nm / IR 850nm)							
Power source	DC 5V (USB)							
Power current	120mA							
Operating system	windows 10, Linux, MAC OSX							

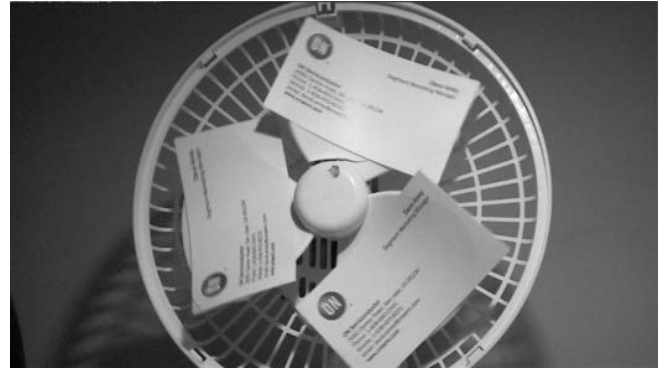
**Feature**

- Great detail in low light allows for easy scanning or object recognition.
- Compact size.
- High-resolution performance.
- Global Shutter.

Rolling Shutter



Global Shutter



**OS Support**

Windows, Android, macOS



**Connector**



USB type C



Micro USB OTG type B



USB type A

**SYD-B441B10RL-65**  
1 2 3 4 5

1 CONNECTOR	2 TYPE	3 CAMERA TYPE	4 LED	5 LENS
<p><b>TYD</b> USB 3.0 A type</p> <p><b>TYT</b> USB type-C</p> <p><b>SYD</b> USB 3.0 A type</p> <p><b>SYT</b> USB type-C</p> <p><b>TD</b> USB 2.0 A type</p> <p><b>TM</b> Micro USB OTG B type</p> <p><b>TT</b> USB type-C</p>	<p><b>B</b> Board type (module)</p> <p><b>VB</b> Board type (module)+dimmer function</p> <p><b>T</b> Tube type</p> <p><b>V</b> Tube type+dimmer function</p>	<p><b>441A08R</b> color</p> <p><b>441B08R</b> color</p> <p><b>441AM8R</b> B/W</p> <p><b>441BM8R</b> B/W</p> <p><b>441A10R</b> color</p> <p><b>441B10R</b> color</p> <p><b>441AM10R</b> B/W</p> <p><b>441BM10R</b> B/W</p>	<p><b>L</b> white LED</p> <p><b>L9</b> IR940nm LED</p> <p><b>L8</b> IR850nm LED</p>	<p><b>122</b> 1.21mm/F2.0 (122°)</p> <p><b>71</b> 3.3mm/F2.4 (71°)</p> <p><b>65</b> 3.4mm/F2.8 (65°)</p> <p><b>65</b> 3.4mm/F6.0 (65°)</p>
		<p>441A08R A: sensor CRA 20°</p> <p>441B08R B: sensor CRA 0°</p>		