

**Series Information**

| Series                    | FY              | Y   | FX      | X       | FT      | T   |
|---------------------------|-----------------|-----|---------|---------|---------|-----|
| Snapshot and Freeze Frame | Support         | N/A | Support | N/A     | Support | N/A |
| Feature                   | Low Temperature |     |         | Advance |         |     |
| Interface                 | USB 3.0         |     | USB 2.0 |         |         |     |
| Camera Shape              | Round Shape     |     |         |         |         |     |
| Orientation               | Front View      |     |         |         |         |     |

**FY / Y / FX / X Series**

| Lens                               | N/A |
|------------------------------------|-----|
| B441A08R<br>B441B08R<br>Front View |     |

**FT / T Series**

| Lens                               | N/A |
|------------------------------------|-----|
| B441A10R<br>B441B10R<br>Front View |     |

**FY / Y Series**

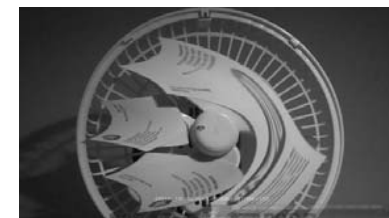
| Lens                  | N/A |
|-----------------------|-----|
| B441CM8<br>Front View |     |

Coming Soon

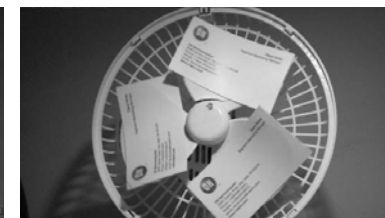
Unit: ± 0.2 mm

**Specification**

| Model No.                 | 441A   | 441B  | 441C                       |
|---------------------------|--|---|----------------------------|
| CRA                       | 20°  | 0°  | 9°                         |
| Image Area (mm)           | 3.84 x 2.16  |   | 3.89 x 2.45                |
| Resolution                | 1280 x 720   |   | 1280 x 800                 |
| Image Sensor              | 1/4" Color or B/W  |   | 1/4" B/W                   |
| Frame Rate                | FY / Y   | 60 fps  | 120 fps                    |
|                           | FX / X   | 15~30 fps                                     | N/A                        |
|                           | FT / T   |   |                            |
| Sensitivity               | 4300 mV / (Lux-sec)  |   | TBD                        |
| Dynamic Range             | 63.9 dB  |   | TBD                        |
| Pixel Size (µm)           | 3.0 x 3.0  |   |                            |
| Video Format              | MJPEG, YUV   |   |                            |
| Shutter                   | Global   |   |                            |
| Storage Temperature       | -30 to 60 Degree C   |   |                            |
| Working Temperature       | -10 to 45 Degree C   |   |                            |
| Lens (specify which lens) | 52°  | 4.40 mm / F 2.4 (H= 47°; V= 26°; D= 52°)      |                            |
|                           | 54°  | 4.50 mm / F 2.8 (H= 46°; V= 30°; D= 54°)      |                            |
|                           | 68°  | 3.40 mm / F 2.8 (H= 60°71'; V= 36°4'; D= 68°) |                            |
|                           | 73°  | 3.51 mm / F 3.5 (H= 65°; V= 38°; D= 73°)      |                            |
|                           | 112°   | 2.65 mm / F 2.6 (H= 87°; V= 50°; D= 112°)     |                            |
|                           | 120°   | 2.65 mm / F 2.4 (H= 88°2'; V= 62°2'; D= 120°) |                            |
| 144°                      | 2.3 mm / F 7.0 (H= 104°; V= 74°; D= 144°)                                  |   |                            |
| Power Source              | DC 5 V   |   |                            |
| Power Current             | 210 mA   |   | TBD mA                     |
|                           | 250 mA (With LED)  |   |                            |
| Operating System          | Windows XP, Windows Vista, Window 7, Windows 8, Windows 10, Linux, Mac OSX |   | Windows 10, Linux, Mac OSX |



Rolling Shutter



Global Shutter

**All MISUMI UVC Camera are Compatible With MP-WF580KP (WiFi DVR)**

For example: Our extremely lightweight 1920 x 1080 (1080p) 1/6" CMOS UVC glasses camera is compatible with MP-WF580KP (WiFi DVR).

Supports **H.264 video format** input, loop recording, snapshot functions. Supports max memory 128 GB (micro SD).

Users can view live streaming video via a smartphone.



About MP-WF580KP: It deliver the best 1080p live streaming performance when using H.264 camera. When using MJPEG cameras, it can only live stream at resolutions of 720p and below. MJPEG cameras delivers the best live streaming performance at 640 x 480 resolution.

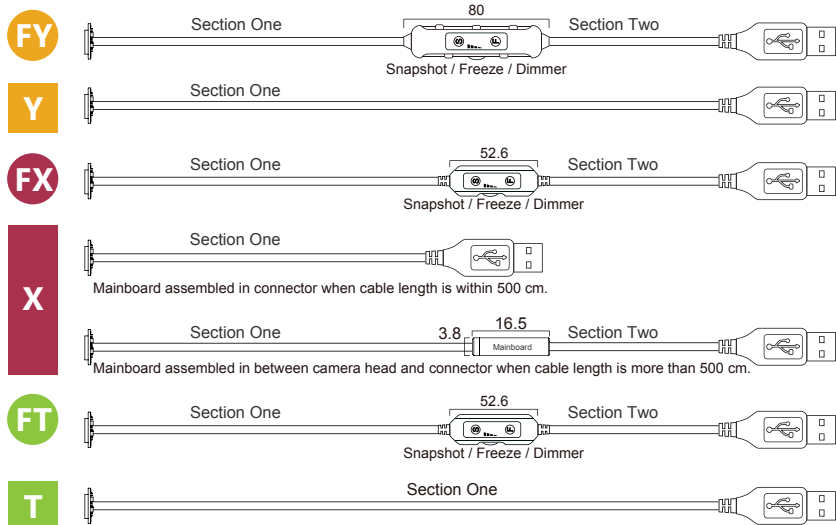
**Camera Parameter Adjustable (MISUMI APP)**

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



NOTE for MISUMI APP: UVC Camera does not support Android 10

# FYD-VB441AM8LH-54A



**Section One**

| OD (mm) | Length (cm) | Series    |
|---------|-------------|-----------|
| 2.8     | 10~200      | FY Y FX X |
| 3.8     |             |           |

**Section Two**

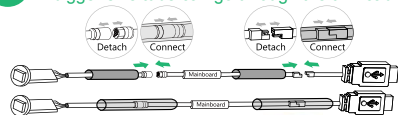
| OD (mm)                | Length (cm) | Series             |
|------------------------|-------------|--------------------|
| 0.35<br>Enameled Wires | 10~150      | FX<br>X<br>FT<br>T |
| 0.9                    | 10~200      |                    |
| 1.4<br>AWG#30          | 10~600      |                    |
| 1.4<br>AWG#28          | 10~1000     |                    |
| 1.6                    | 10~1000     |                    |
| 1.7                    | 10~200      |                    |
| 2.8                    | 10~400      |                    |
| 3.5                    | 10~1000     |                    |
| 5.0                    | 10~1500     |                    |
| 3.6                    | 10~250      |                    |
| 6.2                    | 10~200      |                    |

| SERIES  | CONNECTOR   | CAMERA BODY   | DISPLAY   |
|---|---|---|---|
| <p><b>USB 3.0</b></p> <p><b>FY</b> Low temperature with Snapshot and freeze frame</p> <p><b>Y</b> Low temperature</p> <p><b>USB 2.0</b></p> <p><b>FX</b> Low temperature</p> <p><b>X</b> Low temperature</p> <p><b>FT</b> Advance</p> <p><b>T</b> Advance</p> <p><b>* F</b> Snapshot and Freeze Frame</p> | <p><b>UVC Signal</b></p> <p><b>D</b> USB Type A</p> <p><b>M</b> USB Micro Type B (OTG)</p> <p><b>T</b> USB Type C</p> <p><b>I</b> USB Mini Type B</p> <p><b>Connector Information</b></p> <p>USB Type A      USB Micro Type B</p> <p>USB Type C      USB Mini Type B</p>            | <p><b>Front View</b></p> <p><b>B</b> Board Type</p> <p><b>VB</b> Board Type + Dimmer</p> <p><b>T</b> Tube Type</p> <p><b>V</b> Tube Type + Dimmer</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>441CM8R</b> B/W</p> <p><b>* R</b> Round Shape</p> <p><b>* A</b> Chief Ray Angle 20°</p> <p><b>* B</b> Chief Ray Angle 0°</p> <p><b>* C</b> Chief Ray Angle 9°</p> |
| LED   | LENS  | CABLE   |   |
| <p><b>LH</b> High-Intensity White LED</p> <p><b>L8</b> IR 850 nm LED</p> <p><b>L9</b> IR 940 nm LED</p>   | <p><b>52</b> 4.4 mm / F 2.4 (52°)</p> <p><b>54</b> 4.5 mm / F 2.8 (54°)</p> <p><b>68</b> 3.40 mm / F 2.8 (68°)</p> <p><b>73</b> 3.51 mm / F 3.5 (73°)</p> <p><b>112</b> 2.65 mm / F 2.6 (112°)</p> <p><b>120</b> 2.65 mm / F 2.4 (120°)</p> <p><b>144</b> 2.3 mm / F 7.0 (144°)</p> | <p><b>Camera Head to Mainboard (Section One)</b></p> <p><b>A</b> Cable OD 2.8 +0.1 mm (Max. 200 cm)</p>   |   |
| <p>* Camera with LED light source is suggested to use lens with larger F-Stop number</p>  |   |   |   |

**Detachable Nano Connectors (Customize Option)**

Specifically designed to overcome the big size of connector and camera head.

- ✔ **With detachable Nano connectors**  
A bigger size tube can go through the thin cable from halfway.
- ✘ **Without detachable Nano connectors**  
Camera head cannot go through the bigger tube.



Nano 13~15 pin (Cable A)    Nano 4 pin (Cable B)