

# UC50MPD

## Spinel 5MP WDR USB Camera Module

### UC50MPD-Features

**5 MP Resolution, supports 2592X1944 pixels up to 30fps, WDR 120dB**

**Plug-&-Play (UVC compliant)**

**USB 2.0 device with USB 2.0 cable**

### Specifications

|                           |                                                                                                                                                                                                                      |              |              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Image Device              | 1/2.5" CMOS                                                                                                                                                                                                          |              |              |
| Pixel Size                | 2.2µm x 2.2µm                                                                                                                                                                                                        |              |              |
| Resolution                | <b>5 MP</b> 2592(H) X 1944(V)                                                                                                                                                                                        |              |              |
| <b>Output Format</b>      | <b>MJPEG / YUV2 (YUYV)</b>                                                                                                                                                                                           |              |              |
| Shutter Type              | Electronic rolling shutter                                                                                                                                                                                           |              |              |
| Focus                     | Manually adjustable                                                                                                                                                                                                  |              |              |
| Protocol & Connection     | <b>Plug-&amp;-Play (UVC compliant)</b>                                                                                                                                                                               |              |              |
| <b>Frame Rate (Max.)</b>  | 640X480                                                                                                                                                                                                              | MJPEG @30fps | YUV2 @ 25fps |
|                           | 800X600                                                                                                                                                                                                              | MJPEG @30fps | YUV2 @ 10fps |
|                           | 1024X768                                                                                                                                                                                                             | MJPEG @30fps | YUV2 @ 10fps |
|                           | 1280X720                                                                                                                                                                                                             | MJPEG @30fps | YUV2 @ 5fps  |
|                           | 1600X1200                                                                                                                                                                                                            | MJPEG @30fps | YUV2 @ 5fps  |
|                           | 1920X1080                                                                                                                                                                                                            | MJPEG @30fps | YUV2 @ 5fps  |
|                           | 2048X1536                                                                                                                                                                                                            | MJPEG @30fps | YUV2 @ 3fps  |
|                           | 2560X1440                                                                                                                                                                                                            | MJPEG @30fps | YUV2 @ 3fps  |
|                           | 2592X1944                                                                                                                                                                                                            | MJPEG @30fps | YUV2 @ 1fps  |
| Minimum Illumination      | 0.2 Lux                                                                                                                                                                                                              |              |              |
| IR-Cut Filter (IR Filter) | Default at 650nm, custom options at 850nm or 940nm                                                                                                                                                                   |              |              |
| Lens                      | Default <b>3.6mm lens</b> , other options M12 2.1mm, 2.8mm, 6mm, 8mm, 12mm, 16mm, 25mm, 120 degree non-distortion Lens, 185 Degree circular Fisheye, CS 2.8mm, 4mm, 6mm, 8mm, 16mm, 25mm lens and other upon request |              |              |
| <b>WDR</b>                | <b>120 dB</b>                                                                                                                                                                                                        |              |              |
| Night Vision              | Supported with use of IR Lens and IR illuminator                                                                                                                                                                     |              |              |
| Controllable Features     | Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, White balance, Backlight Contrast, Exposure                                                                                                                 |              |              |
| IR Illumination           | Default not available, 12 or 24pcs 850nm LED plate can be added upon request                                                                                                                                         |              |              |
| Power Socket              | 4P PH 2.0mm socket, USB BUS Power                                                                                                                                                                                    |              |              |
| Cable Length              | Default 4ft(1.2M) (optional 2M or others upon request)                                                                                                                                                               |              |              |
| <b>Supported OS</b>       | Win XP/Vista/Win7/Win8/Win10<br>Linux with UVC (linux-2.6.26 or later)<br>MAC-OS X 10.4.8 or later<br>Wince with UVC                                                                                                 |              |              |

For more information relating to cameras, please contact us, via email at [info@spinelectronics.com](mailto:info@spinelectronics.com)  
Or by phone at 800-837-5859; or visit our Website: [www.spinelectronics.com](http://www.spinelectronics.com)

Android 4.0 or higher with UVC

| <b>Environmental</b>     |                                                     |
|--------------------------|-----------------------------------------------------|
| Power Consumption        | DC5V ( $\pm 5\%$ ), 140mA ( $\pm 10\%$ )            |
| Operating Temp.          | -22°F~167°F (-30°C~+75°C)                           |
| Storage Temp.            | -40°F~185°F (-40°C~+85°C)                           |
| Humidity                 | Less than 80%                                       |
| Dimension in Millimeters | <b>38mmx 38mm (Mount compatible with 32 x 32mm)</b> |
| Weight                   | Approx. 12 Grams or 0.4 Ounce                       |

### **Windows Testing Application – AMCAP**

Please download from Spinel site.