

# UC03MPB

Spinel Low light & WDR VGA USB Camera Module w/ OV7740



## UC03MPB-Features

**VGA Resolution, Low light & WDR, support built-in Microphone**

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

**USB 2.0 device with USB 2.0 cable, IR LED's can be added built-in on board**

## Specifications

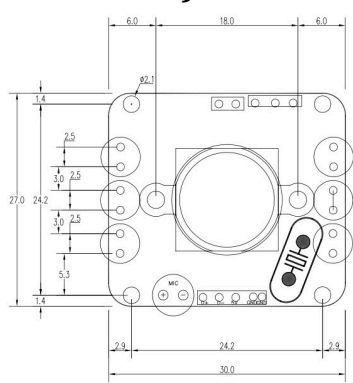
Image Device	1/5" CMOS OV7740		
Pixel Size	4.2 $\mu$ m x 4.2 $\mu$ m		
Resolution	<b>0.3MP</b> 640(H) X 480(V)		
<b>Output Format</b>	<b>MJPEG / YUV2 (YUYV)</b>		
Shutter Type	Electronic rolling shutter		
Focus	Manually adjustable		
Focusing Range	20mm to Infinity		
Protocol & Connection	<b>Plug-&amp;-Play (UVC compliant)</b>		
<b>Frame Rate (Max)</b>	160 x 120 CIF	MJPEG @60fps	YUV2 @ 30fps
	174 x 144	MJPEG @60fps	YUV2 @ 30fps
	320 x 240 QVGA	MJPEG @60fps	YUV2 @ 30fps
	352 x 288	MJPEG @60fps	YUV2 @ 30fps
	640 x 480 VGA	MJPEG @60fps	YUV2 @ 30fps
<b>Minimum Illumination</b>	<b>0.005 Lux</b>		
Lens	Default 3.6mm lens, Custom options: 70 degree FOV non-distortion lens, 1.7mm, 2.0mm, 2.8mm, 6mm, 8mm, 12mm, 16mm, Pinhole 2.8mm, 3.7mm and 4.3mm Lens, 185 Degree fisheye Lens and others upon request		
IR-Cut Filter (IR Filter)	Default at 650nm, custom options at 850nm or 940nm.		
<b>Wide Dynamic Range</b>	<b>71dB</b>		
<b>Audio</b>	Supported when microphone is equipped		
IR-Cut Filter Switch	Default not available		

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)

Night Vision	Supported with use of IR lens and IR LED's built-in
IR Illumination	Default not available, 6 pcs 850nm/940nm/white light LED plate can be added built-in upon request
Controllable Features	Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, White balance, Backlight Contrast, Exposure
Power Socket	4P PH 2.0mm socket, USB BUS Power
Cable Length	Default 1.2M(4ft) (optional 2M or others upon request)
<b>Supported OS</b>	Win XP/Vista/Win7/Win8/Win10 Linux with UVC (linux-2.6.26 or later) MAC-OS X 10.4.8 or later Wince with UVC Android 4.0 or higher with UVC

Environmental	
Power Consumption	<b>DC5V (±5%), 140mA</b>
Operating Temp.	-4°F~167°F (-20°C~+75°C)
Storage Temp.	-40°F~185°F (-40°C~+85°C)
Humidity	Less than 80%
Dimension in Millimeters	<b>30mmx 27mm</b>
Weight	Approx. 9 Grams or 0.43 Ounce

### Board Layout (Dimensions in mm)



### Windows Testing Application – AMCAP

1. The “AMCAP” can be downloaded from Spinel website.
2. For preview, please check AMCAP--->Options--->Preview
3. To change resolution, please go to AMCAP--->Options--->Video Capture Pin