

# UC20MPD

Spinel 2MP USB Camera Module Infrared with OV2710 Sensor



## UC20MPD-Features

**2 MP Resolution, built-in infrared LED's for night vision**

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

**USB 2.0 device with USB 2.0 cable**

## Specifications

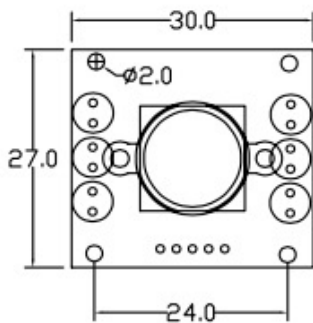
Image Device	1/2.7" CMOS OV2710		
Pixel Size	3µm x 3µm		
Resolution	<b>2 MP FULL HD 1920(H) X 1080(V)</b>		
<b>Output Format</b>	<b>MJPEG / YUV2 (YUYV)</b>		
Shutter Type	Electronic rolling shutter		
Focus	Manually adjustable		
<b>Focus Range</b>	20mm to Infinity		
Protocol & Connection	<b>Plug-&amp;-Play (UVC compliant)</b>		
<b>Frame Rate</b>	320X240 QVGA	MJPEG @120fps	YUV2 @30fps
	640X480 VGA	MJPEG @120fps	YUV2 @30fps
	800X600 SVGA	MJPEG @60fps	YUV2 @20fps
	1024X768 XGA	MJPEG @30fps	YUV2 @ 6fps
	1280X720 HD	MJPEG @60fps	YUV2 @ 9fps
	1280X1024 SXGA	MJPEG @30fps	YUV2 @ 6fps
	1920X1080 FHD	MJPEG @30fps	YUV2 @ 6fps
Minimum Illumination	<b>0.05 Lux</b>		
IR-Cut Filter (IR Filter)	Default at 850nm, custom option at 940nm		
Lens	Default <b>100 degree FOV non-distortion lens</b> , Custom options 2.1mm, 3.6mm, 6mm, 8mm, 12mm, 16mm, Pin-hole 2.8mm, 3.7mm, 4.3mm lens, 185 Degree Fisheye and others upon request		
Night Vision Distance	3-5 Meters		
Controllable Features	Brightness, Contrast, Saturation, Hue, Sharpness,		

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)

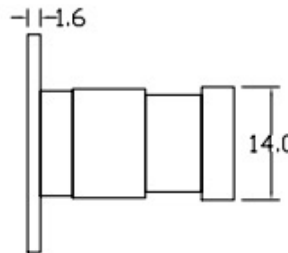
IR Illumination	Gamma, White balance, Backlight Contrast, Exposure Default 6 pcs 850nm infrared LED built-in onboard, can be changed to 940nm/white light LED's upon request
Power Socket	4P PH 2.0mm socket, USB BUS Power
Cable Length	Default 4ft (1.2M)(optional 2M or others upon request)
<b>Supported OS</b>	Win XP/Vista/Win7/Win8/Win10 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%), 150~200mA</b>
Operating Temp.	-4°F~167°F (-20°C~+75°C)
Storage Temp.	-40°F~185°F (-40°C~+125°C)
Humidity	Less than 80%
Dimension in Millimeters	<b>30mmx 27mm</b>
Weight	Approx. 30 Grams or 1 Ounce

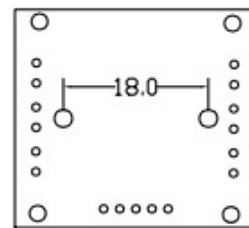
### Board Layout (Dimensions in mm)



Front View



Side View

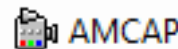


Back View

### Pin Configuration (shown on back view image above, from left to right)

Pin 1	Pin 2	Pin 3	Pin 4
DC 5V In	DP	DM	GND

### Windows Testing Application - AMCAP



1. The "AMCAP" can be downloaded from Spinel site:
2. For preview, please select the camera first, then go to Options--->Preview
3. To change resolution, please go to AMCAP--->Options--->Video Capture Pin

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)