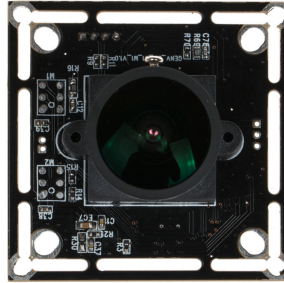


UC20MPE

Spinel 2 Mega Pixels Low Light/WDR USB Camera Module



UC20MPE-Features

2 MP Resolution

Plug-&-Play (UVC compliant), USB 2.0 device with USB 2.0 cable

Ultra low light at 0.001LUX or WDR

Specifications

Image Device	1/2.7" CMOS HM2131		
Pixel Size	3 μ m x 3 μ m		
Resolution	2 MP FULL HD 1920(H) X 1080(V)		
Output Format	MJPEG / YUV2 (YUYV)		
Shutter Type	Electronic rolling shutter		
Focus	Manually adjustable		
Focusing Range	20mm to Infinity		
Protocol & Connection	Plug-&-Play (UVC compliant)		
Frame Rate	160 x120	MJPEG @ 7~30fps	YUV2 @ 7~30fps
(only one mode can be preset)	176 x 144	MJPEG @ 7~30fps	YUV2 @ 7~30fps
(Low Light Mode)	320 x 240	MJPEG @ 7~30fps	YUV2 @ 7~30fps
	352 x 288	MJPEG @ 7~30fps	YUV2 @ 7~30fps
	640 x 360	MJPEG @ 7~30fps	YUV2 @ 7~30fps
	640 x 480	MJPEG @ 7~30fps	YUV2 @ 7~30fps
	800 x 600	MJPEG @ 7~30fps	YUV2 @ 7~10fps
	848 x 480	MJPEG @ 7~30fps	YUV2 @ 7~10fps
	1024 x 768	MJPEG @ 7~30fps	YUV2 @ 7~10fps
	1280 x 720	MJPEG @ 7~30fps	YUV2 @ 7~10fps
	1280 x 800	MJPEG @ 7~30fps	YUV2 @ 7~10fps
	1920 x 1080	MJPEG @ 7~30fps	YUV2 @ 5fps
(WDR Mode)	160 x120	MJPEG @ 25~30fps	YUV2 @ 25~30fps
	176 x 144	MJPEG @ 25~30fps	YUV2 @ 25~30fps
	320 x 240	MJPEG @ 25~30fps	YUV2 @ 25~30fps
	352 x 288	MJPEG @ 25~30fps	YUV2 @ 25~30fps
	640 x 360	MJPEG @ 25~30fps	YUV2 @ 25~30fps
	640 x 480	MJPEG @ 25~30fps	YUV2 @ 25~30fps
	800 x 600	MJPEG @ 25~30fps	YUV2 @ 20fps
	848 x 480	MJPEG @ 25~30fps	YUV2 @ 20fps
	1024 x 768	MJPEG @ 25~30fps	YUV2 @ 10fps
	1280 x 720	MJPEG @ 25~30fps	YUV2 @ 10fps
	1280 x 800	MJPEG @ 25~30fps	YUV2 @ 10fps
	1920 x 1080	MJPEG @ 25~30fps	YUV2 @ 5fps

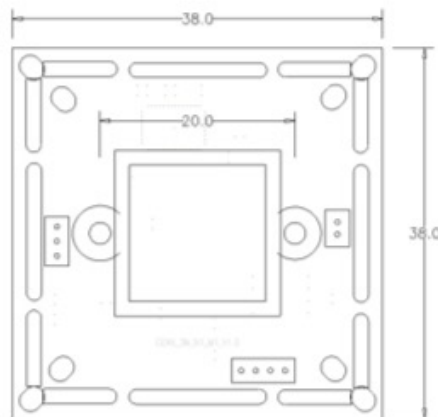
For more information relating to cameras, please contact us, via email at info@spinelectronics.com

Or by phone at 800-837-5859; or visit our Website: www.spinelectronics.com

Minimum Illumination	0.001 Lux
WDR	70dB
IR-Cut Filter (IR Filter)	Default at 650nm, custom options at 850nm or 940nm
Lens	Default 100 degree FOV non-distortion lens , Custom options 2.1mm, 2.8mm, 3.6mm, 6mm, 8mm, 12mm, 16mm, 185 Degree Fisheye, Pin-hole .8mm, 3.7mm, 4.3mm lens and others upon request
IR-Cut Filter Switch (IRC)	Available upon request
Night Vision	Supported with use of IR lens and IR illuminator
IR Illumination	Default not available, removable 12 or 24pcs 850nm/940nm/white light LED board can be added 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 (Other options upon request)
Supported OS	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	DC5V (±5%), 150~200mA
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	38mmx 38mm (Mount compatible with 32 x 32mm)
Weight	Approx. 12Grams or 0.4Ounce

Board Layout (Dimensions in mm)



Pin Configuration (Please see silkscreen on the back of camera board)

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
Or by phone at 800-837-5859; or visit our Website: www.spinelectronics.com