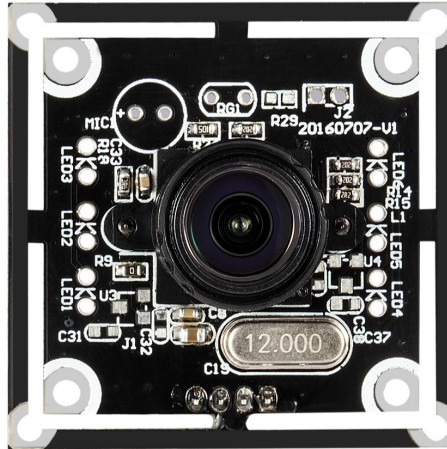


UC10MPA

Spinel 1 Mega Pixels USB Camera Module with NT99141 Sensor



UC10MPA-Features

720P, 1 MP Resolution

Plug-&-Play (UVC compliant)

USB 2.0 device with USB 2.0 cable

Specifications

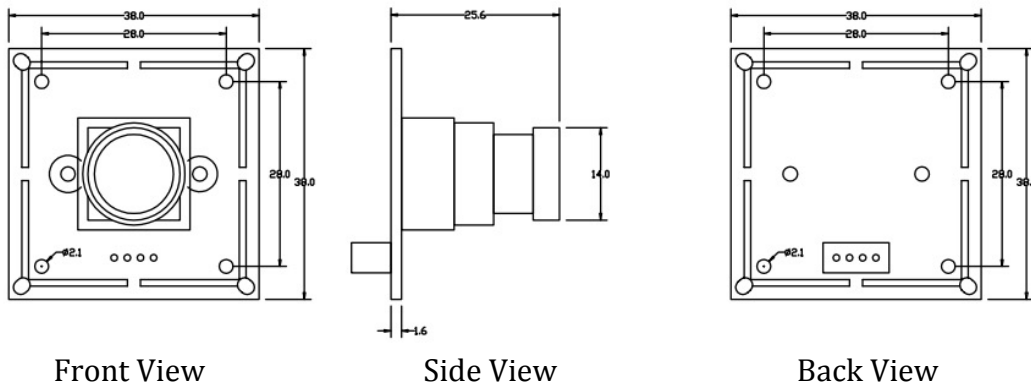
Image Device	1/4" CMOS NT99141		
Pixel Size	3µm x 3µm		
Resolution	1 MP 1280(H) X 720(V)		
Output Format	MJPEG / YUV2 (YUYV)		
Shutter Type	Electronic rolling shutter		
Focus	Manually adjustable		
Focusing Range	20mm to Infinity		
Protocol & Connection	Plug-&-Play (UVC compliant)		
Frame Rate	320X240	MJPEG @ 30fps	YUV2 @ 30fps
	352X288	MJPEG @ 30fps	YUV2 @ 30fps
	640X480	MJPEG @ 30fps	YUV2 @ 20fps
	800X600	MJPEG @ 30fps	YUV2 @ 30fps
	1280X720	MJPEG @ 30fps	YUV2 @ 10fps
Minimum Illumination	0.05 Lux		
Microphone	Supported		
IR-Cut Filter (IR Filter)	Default at 650nm, custom options at 850nm or 940nm.		
Lens	Default 95 degree FOV non-distortion lens , Custom options 1.7mm, 2.1mm, 2.8mm, 3.6mm, 6mm, 8mm, 12mm, 16mm, Pin-hole 2.8mm, 3.7mm, 4.3mm lens, 185 Degree Fisheye, CS lens and others upon request		
Night Vision	Supported with use of IR lens and IR illuminator		
Controllable Features	Brightness, Contrast, Saturation, Hue, Sharpness,		

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

IR Illumination	Gamma, White balance, Backlight Contrast, Exposure Default not available, 12 or 24pcs 850nm/940nm/white light LED board can be added upon request
Power Socket	4P PH 2.0mm socket, USB BUS Power
Cable Length	Default 1.2M (optional 2M or others 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

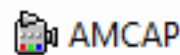
Board Layout (Dimensions in mm)



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

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

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