

SC20MPE

Spinel 2MP long-range waterproof Serial JPEG Color Camera

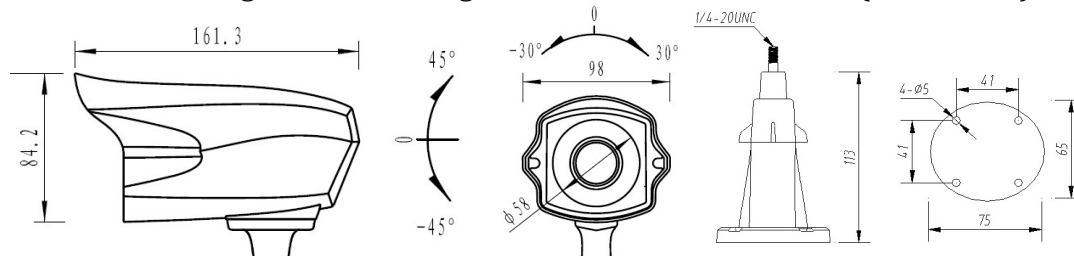


Spinel SC20MPE Camera is a high-end reliable serial camera which can be attached to any host system that requires a JPEG compressed still camera for embedded imaging applications. The camera uses a **1/2.7" CMOS** color image sensor along with a JPEG compression chip that provides a low powered camera system. The camera has an on-board serial interface (TTL/RS232/RS485) that is ideal for a direct connection to any host microcontroller UART or a PC system COM port.

The SC20MPE camera is capable of outputting **2MP JPEG format images** only.

The SC20MPE camera has the best performance in the market through smart illumination function (the LED only turns on when it's necessary), long IR range, low **LUX 0.005**, waterproof IP67 and low temperature rated, **OSD feature**, wide voltage, **color night image capturing**. PC test tool and sample code are provided for easy testing and programming into microcontrollers.

Below is the design of the housing and mount used on camera (unit in mm).



SC20MPE Features

For more information relating to JPEG cameras, please contact us, via email at info@jpegcamera.com
Or by phone at 800-837-5859; or visit our Website: www.jpegcamera.com

Long range up to 50 meters, **low LUX 0.005**

2 MP quality color images for both day and night time (B version with white light LED)

Auto IR illumination, OSD feature

Specifications	
Image Device	1/2.7" CMOS
Serial Output	TTL/RS232/RS485
Pixels	2 Mega Pixels
Image Resolution	1600x1200(default), 1920x1280, 1280x1024, 1280x960, 1280x800, 1280x720, 1024x768, 800x600, 640x480
Image Compression	JPEG
Video Output	Not available
Baud Rate	115200bps (default), 57600bps, 38400bps, 19200bps, 9600bps
Focal Length	6 mm (default), 4/8/12/16/25mm available
Angel of View	60 degree (default), 90/45/30/15/7 degree available
Minimum Illumination	0.005LUX
IR Illuminator	2 x 850nm IR LED arrays for A version, or 2 x white light LED for B version (turns on automatically 3 seconds prior to image capturing, stays ON for 3 seconds during capturing and turns off automatically after)
IR-cut filter (IR filter)	Default at 850nm
IR-Cut filter Switcher	Automatic built-in
Power Supply	Wide voltage 9-28V DC, typical: 12V DC
Current Consumption	Typical<120mA, Max~500mA
Night Image	A version: black and white; B version: color
Night Vision Range	Up to 50 meters (164ft)
Protocol	Spinel SXH protocol
Exposure	Auto
White Balance	Auto
Auto Gain Control	Auto
Cable Length	Default 2 meters (6.5ft), other length per request
Wiring Configuration	Red: 12V, Black: GND, TTL: Yellow: RX, White: TX; RS232 & RS485: Yellow: TX or B, White: RX or A
Connector	Default 4 bare wires, other connectors can be customized per request)
Waterproof	IP67

Environmental	
Operating Temp.	-40°F~180°F (-40°C~+85°C)
Storage Temp.	-58°F~194°F (-45°C~+90°C)
Dimension in Millimeters	98mm (wide) x 195mm (height) x 161mm (depth)
Dimension in inches	3.85 Inch (wide) x 7.7 inch (height) x 6.34 inch (depth)
Weight	Approx. 540 Grams or 1lbs 3oz

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