

SC20MPC

Spinel 2MP Serial JPEG Color Camera

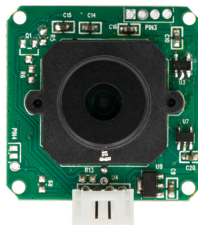


Spinel SC20MPC Camera is a highly integrated serial camera which can be attached to any host system that requires a JPEG compressed still camera for embedded imaging applications. SC20MPC is an upgraded design of SC20MPA that is ideal for outdoor applications. The camera uses a **1/4" CMOS** color image 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 SC20MPC camera is capable of outputting **2MP JPEG format images** only.

User commands are sent using a simple serial protocol (**VC0706 compatible**) that can instruct the camera to send high resolution (160x120 to 1600x1200) JPEG images for storage or viewing. PC test tool and sample code are provided for easy testing and programming into microcontrollers.

Below is pin configuration for the camera module from left to right.



Pin 1	Pin 2	Pin 3	Pin 4
RXD	TXD	GND	VCC

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

SC20MPC Features

2MP resolution, Fully customizable

VC0706 protocol compatible

High baud rate up to 1,152,000bps (for TTL output only)

Specifications	
Image Device	1/4" CMOS
Serial Output	TTL/RS232/RS485
Pixels	2 Mega Pixels
Image Resolution	1600x1200 (Default), 1280x960, 1024x768, 800x600, VGA, QVGA, 160x120
Image Compression	JPEG
Baud Rate	115200bps (default), 57600bps, 38400bps, 19200bps, 9600bps, 1152000bps optional
Focal Length	6mm (default), 2.8mm/3.6mm/8.0mm/ 12mm/16mm/24mm available
Angel of View	60 degree (default), 120/90/45/30/15/8 degree available
Minimum Illumination	1LUX
IR Illuminator	Default with no IR illumination, custom options of 12pcs, 24pcs or 36pcs 850nm/940nm IR LED Plate
IR-Cut filter (IR filter)	Default at 650nm, custom options at 850nm or 940nm
IR-Cut filter Switcher	Default not available, only available when customized with Spinel supplied IR illuminator
Power Supply	5V DC (default), custom option 12V DC or wide voltage 9-36V DC
Current Consumption	Typical: 120mA, Max: 250mA (when LED's are on)
Night Image	Black and white
Night Vision Range	Up to 10 meters (33ft)
Protocol	VC0706 compatible
Exposure	Auto
White Balance	Auto
Auto Gain Control	Auto
Cable Length	20CM (7.8in) 4 bare wires (Default), other length per request
Pin Configuration	Pin 1: RXD, Pin 2: TXD, Pin 3: GND, Pin 4: VCC
Connector	Default 4 bare wires, other connectors can be customized per request

Environmental	
Operating Temp.	-4°F~140°F (-20°C~+60°C)
Storage Temp.	-22°F~158°F (-30°C~+70°C)
Dimension in Millimeters	32mm (L) x 32mm (W) x 28mm (H)
Dimension in inches	1.26 Inch (L) x 1.26 inch (W) x 1.1 inch (H)
Weight	Approx. 15 Grams or 0.5oz

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