

SC50MPA

Spinel 5MP Serial JPEG Color Camera Module

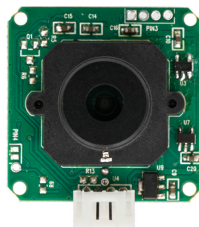


Spinel SC50MPA Camera is a highly integrated serial camera which can be attached to any host system that requires a JPEG compressed still camera for embedded imaging applications. The camera uses a **1/4" CMOS** color image sensor along with a JPEG compression chip that provides a low powered camera 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 SC50MPA camera is capable of outputting **5MP 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 2592x1944) 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 info relating to JPEG cameras, please contact us via email at info@spinelectronics.com
Or by phone at 800-837-5859; or visit our Website: www.spinelectronics.com

SC50MPA Features

5MP resolution, Fully customizable

VC0706 protocol compatible

Specifications	
Image Device	1/4" CMOS
Serial Output	TTL/RS232/RS485
Pixels	5 Mega Pixels
Image Resolution	2592x1944 (Default), 2048x1536, 1920x1080, 1600x1200, 1280x960, 1024x768, 800x600, 640x480, 320x240, 160x120
Image Compression	JPEG
Baud Rate	115200bps (default), 19200bps, 38400bps, 57600bps optional
Focal Length	3.6mm (default), 2.8mm/6mm/8mm/12mm/16mm/24mm and CS lens available
Angel of View	60 degree (default), 120/90/45/30/15/8 degree available
Minimum Illumination	0.1 LUX
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	Not available
Power Supply	5V DC (default), custom option 12V DC or wide voltage 9-36V DC
Current Consumption	Typical: 180mA, 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 per request
Pin Configuration	Pin 1: RXD, Pin 2: TXD, Pin 3: GND, Pin 4: VCC
Connector	Default 4 bare wires, other connectors upon 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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