



Weatherproof TTL Serial JPEG Camera with NTSC Video and IR LEDs

PRODUCT ID: 613

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DESCRIPTION

This weatherproof camera module is [a classy upgrade to the basic camera module we already stock in the shop](#). The main differences is that this one comes in a nice metal case with a mounting hinge, a 1 meter long cable with the TTL & NTSC signals brought out, and it has an automatic IR LED system for night time photos. When the onboard photo-cell detects that it is too dark for the camera to take a photo, it turns on a ring of 12 IR LEDs that illuminate the nearby area for night-vision shots.

This camera was designed to be used in security systems and does two main things - it outputs NTSC video and can take snapshots of that video and transmit them over the TTL serial link. You can snap pictures at 640x480, 320x240 or 160x120 and they're pre-compressed JPEG images which makes them nice and small and easy to store on an SD card. Perfect for a data-logging, security, or photography project.

One nice thing about this particular camera is all the 'extras' that come with it. For example it has **manually adjustable focus**, **auto-white-balance**, **auto-brightness** and **auto-contrast** taken care of for you as well as **motion detection** built in! That means you can have it alert your project when something moved in the frame.

Using the module is pretty easy and only requires two digital pins (or a TTL serial port) - by default it transmits at 38400 baud. Of course we wouldn't just leave you with a datasheet and a 'good luck', we even spent a lot of time researching the module and DSP to make really nice libraries for both Arduino & CircuitPython, with example code that shows how to change the image size and compression quality, detect motion, control the video output stream, etc. That and more is available in our [very detailed tutorial that will help get the most use out of your](#)

TECHNICAL DETAILS

- Metal Housing size: 2" x 2" x 2.5"
- Weight: 150 grams
- Image sensor: CMOS 1/4 inch
- CMOS Pixels: 30M
- Pixel size: 5.6um*5.6um
- Output format: Standard JPEG/M-JPEG
- White balance: Automatic
- Exposure: Automatic
- Gain: Automatic
- Shutter: Electronic rolling shutter
- SNR: 45DB
- Dynamic Range: 60DB
- Max analog gain: 16DB
- Frame speed: 640*480 30fps
- Scan mode: Progressive scan
- Viewing angle: 60 degrees
- Monitoring distance: 10 meters, maximum 15meters (adjustable)
- Image size: VGA (640*480), QVGA(320*240), QQVGA (160*120)
- Baud rate: Default 38400, Maximum 115200
- Current draw: 75mA without IR LEDs on. 250mA extra for IR LEDs
- Operating voltage: DC +5V
- Communication: 3.3V TTL (Three wire TX, RX, GND)

Downloads:

- [We have a fairly full-featured CircuitPython & Arduino library with examples that demonstrate how to use the camera](#)
- [The datasheet for the DSP processor itself \(not terribly useful for the module but good for reference\)](#)
- [PTC-08 module datasheet](#) contains dimensional drawings
- [This is the DSP management tool \(windows only sorry!\)](#) it allows you to tweak pretty much everything on the camera as well as test it out via a serial port
- [A basic python sketch that will let you snag a image over a serial port](#) - good for testing when you cant use the DSP tool above
- [This is the 'protocol cheat sheet' for the sensor](#) its a little crummy - we suggest reading our library code and porting it instead of trying to do it from scratch with this sheet
- [Fabien's Netduino + Camera tutorial](#)

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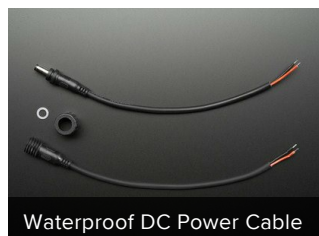


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