Item no.: 346908
1386 - Miniature TTL Serial JPEG Camera with NTSC Video

from **50,50 EUR**

Item no.: 346908
shipping weight: 0.10 kg
Manufacturer: ADAFRUIT INDUSTRIES

📄 Product Description

Miniature TTL Serial JPEG Camera with NTSC Video

This tiny little camera module can be a pretty neat project addition, it is just like Adafruit's other JPEG cameras (same chipset/software), but much smaller and slimmer. It was designed to be used in security systems and does two main things - it outputs NTSC color video and can take snapshots of that video (in color) 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 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. The lens is manually adjustable, it has a 1-15 meter focal distance by default which is good for most projects.

Using the module is pretty easy and only requires two digital pins (or a TTL serial port) - by default it transmits at 38400 baud. Adafruit 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.

- Module size: 20 x 28 mm
- Module weight: 3 g
- Image sensor: CMOS 1/4 inch
- CMOS pixels: 30M
- Pixel size: 5.6 x 5.6 um
- Manual focus adjustable from 5 to 15 meters
- Output format: Standard JPEG
- White balance: Automatic
- Exposure: Automatic
- Gain: Automatic
- Shutter: Electronic rolling shutter
- SNR: 45DB
- Dynamic range: 60 dB
- Max analog gain: 16 dB
- Frame speed: 640 x 480, 30 fps
- Scan mode: Progressive scan
- Viewing angle: 60 degrees
- Image size: VGA (640 x 480), QVGA (320 x 240), QQVGA (160 x 120?
- Baud rate: Default 38400
- Current draw: 75 mA
- Operating voltage: DC +3-5 V (the power pin is marked 3.3 V but it goes into a 3-5 V input regulator so you can power it with 3-5 V DC)
- Communication: 3.3 V TTL (three wire TX, RX, GND)

📄 Specifications