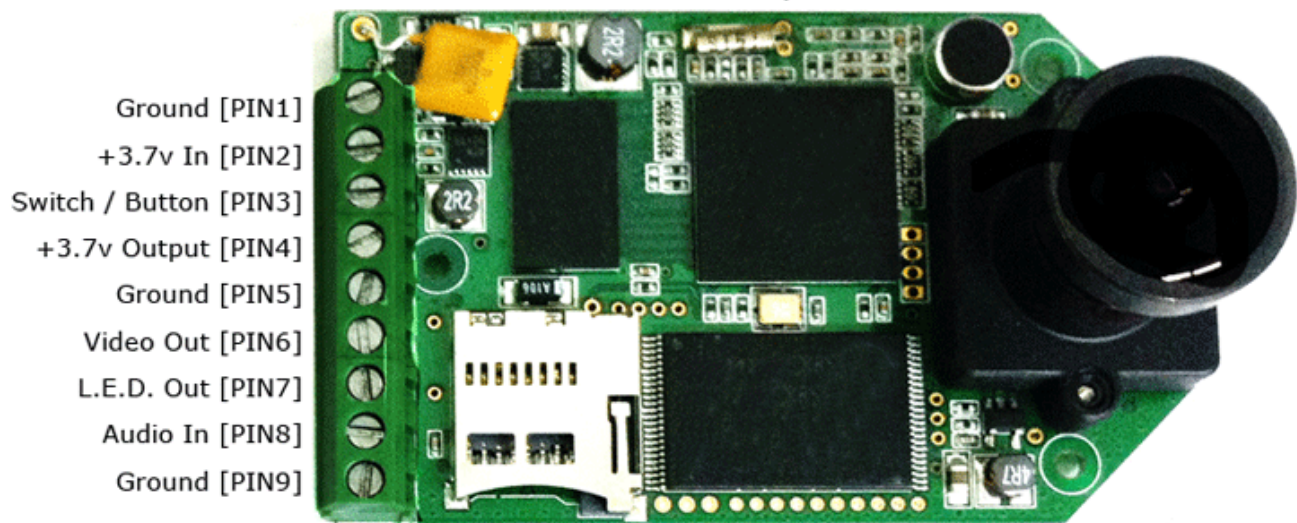


## How it Works

[Click here to download the view the installation/operation instructions.](#)

The HackHD camera PCB is great for hobbyists, private investigators, and anyone who knows basic electronics and wants the best quality 1080P camera on the market to record awesome HD footage. This camera is extremely high quality and uses a 9MP sensor where as the GoPro uses a 5MP one. It can fit in GoPro's skeleton housing if you put a bit of tissue on the back and front to prevent it from moving around (the cameras terminals will hang out of the gap in the housing).

HackHD Pin Layout



The PCB has an onboard microphone and memory card holder for any 2GB to 32GB MicroSD card along with 9 screw terminals for the following:

**1 = Ground** - Recommended for battery negative but can be used for any of the input/output components

**2 = 3.7V Input** - For 3.7V lipo battery positive or external 3.7V power supply (1100 mAH minimum)

**3 = Button Input** - Connect a switch here to control all camera operations (turn on, turn off, record, stop). Whenever terminal 3 is grounded, the button is activated. This can be connected to a push button, relay, motion controller, microcontroller (Arduino), or any other sensor that can ground it.

**4 = 3.7V Output** - This is just an easy way to use the power source for other components such as a motion controller, microcontroller, video light, etc.

**5 = Ground** - Conveniently located for the ground wire of any of the applicable inputs/outputs

**6 = Video Output** - Great for connecting to any device with a component video in such as a TV, DVR, or even a wireless video transmitter for remote viewing. Can record and view simultaneously.

**7 = L.E.D. Output** - Shows camera status. It is good to have an L.E.D. connected except when doing certain private investigation work

**8 = Audio Input** - For external microphone or audio source. Overrides onboard microphone. Can be connected to wireless audio receiver.

**9 = Ground** - Conveniently located for the ground wire of any of the applicable inputs/outputs

### Technical Specs:

Resolution: 1080P HD

Frame Rate: 30 FPS (frames per second)

Coding: H.264

Aspect Ratio: 16:9

File Format: AVI

Storage: External microSD Card (2GB - 32GB)

Lens: 2.5mm (EFL), F2.8, 160 degree (diagonal) wide angle lens

Control Input: Single contact monetarily switch

Video Output: Composite video

Status Indicator Output: Single color LED driver

Dimensions: 65mm x 40mm x 25mm LxWxH

Power Supply: External 3.7V, 1100mAH minimum

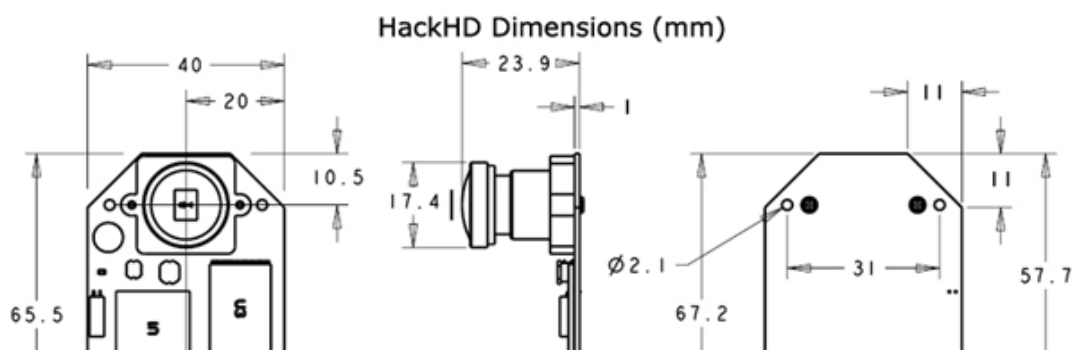
Power Output: 3.7V DC, 500mAH

Working Temperature: -10degC to +45degC

Storage Temperature: -20degC to +70degC

### Operation:

The HackHD uses one button operation. Whenever pin 3 is grounded, the button is activated. This can be connected to a push button, relay, motion controller, microcontroller (Arduino), or any other sensor that can ground it. If held down for a fraction of a second, the camera will boot up and start recording automatically in auto mode. It will not stop recording until the terminal is grounded again or the battery runs out in which case it will stop recording and turn off. This is the best method of saving the battery. If you have an external power source or a high capacity battery, you can use standby mode by grounding pin 3 for 3 seconds to turn it on in standby mode. The LED will go solid until you ground pin 3 for a fraction of a second and it will immediately start recording until grounded again. To turn it off just ground it for 3 seconds.





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