Solar Watchdog

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Production Description

Home Safety, Security and Peace of Mind

- Solar Powered – ECO Friendly
- 720p HD Video Resolution
- Motion Activated Video Stream
- Audio Communication
- LED Lowlight Illumination
- Interruptible Sleep Mode
Key Requirements

- **Cost:**
  - MSRP: $150.00
  - Components: $85.00
  - Assembly/Test: $40.00

- **Environment:**
  - Outdoors
  - Temp Range: -25 – 50°C
  - Humidity: 0 – 100%

- **Power Inputs**
  - 20W Solar Powered
  - 12V/5Ah SLA Battery

- **Major Functions:**
  - 720p HD Video Stream
  - 3 meter motion detection range
  - Sleep mode for battery longevity
  - LED low light illumination
Block Diagram

Block A: Power Supply
- Solar Panel 20 W
- Battery Charging IC Circuit
- Battery 5 Ah 12 V
- Switching Regulators

Block B: CPU
- CPU
- Camera
- I2C Bus
- +3.3VDC, +2.8VDC, +1.8VDC, +1.2VDC

Block C: Wifi
- Wifi
- +3.7V DC
- Digital audio data
- Light On/Off Signal

Block D: Audio Output
- Amplifier
- Speaker
- +12V DC
- +2.7-5.5V DC

Block E: Sensors
- PIR Motion Sensor
- Light Level Sensor

Block F: LED Output
- LED Driver
- LED Lights
- +3.3VDC, +2.8VDC, +1.8VDC, +1.2VDC