Essence
HOME&FAMILY

Indoor Photo Detector

M800IPD

Image Capturing Camera with Motion Detection

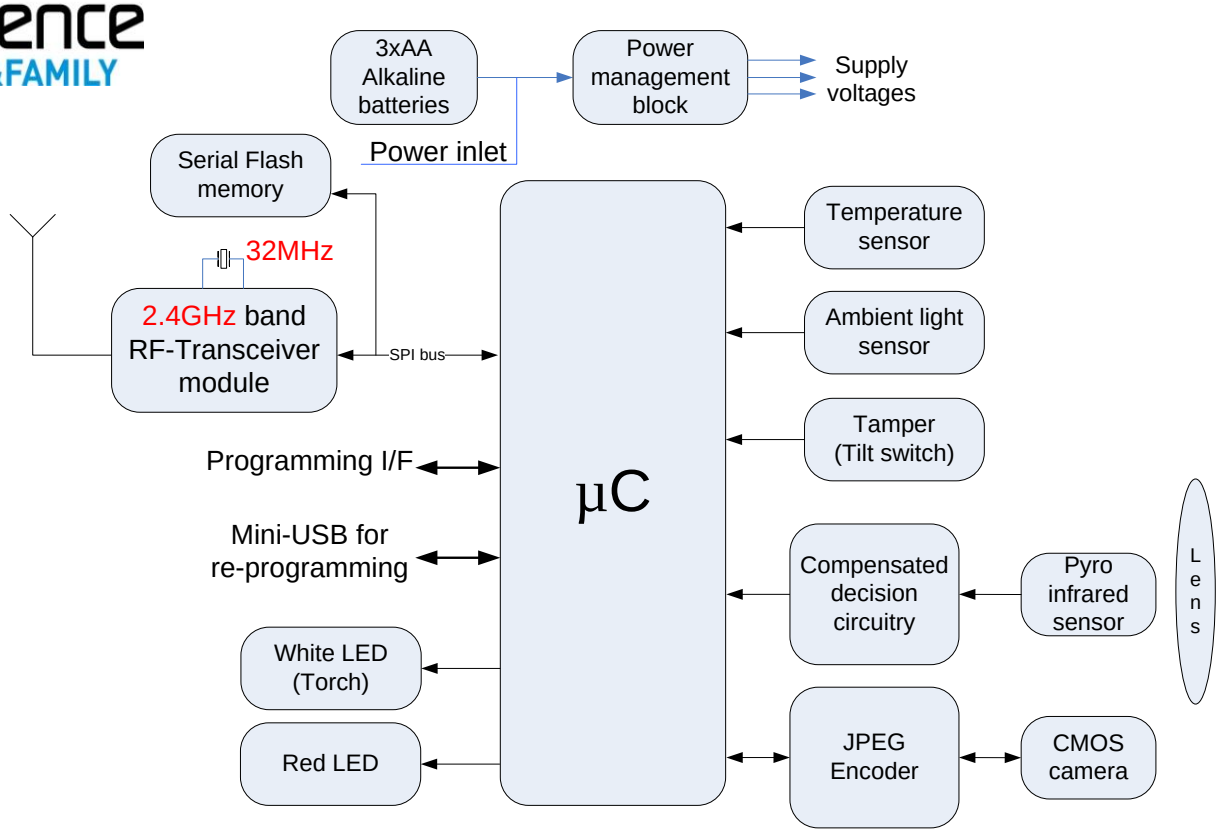
Operational Description

The M800IPD is a unique combination of Passive Infrared (PIR) motion detection and image capture, it features:

- Both security and comfort look-in motion detection image streaming modes
- Compresses data streaming of photos sent via ECOP RF to the We.R Control Panel
- Relays stream to a designated device (mobile phone, computer, etc.)
- Sealed optics - immune to light, insects, and pets, reducing false alarms
- Based on advanced proprietary technology
- Requires three (3) AA-size alkaline batteries
- Multi-zone spherical lens for exceptional detection coverage (120° horizontal, 105° vertical)
- With regards to communications:
  - Up to 500m RF range (open air)
  - ECOP bi-directional radio protocol (onboard)
  - Modulation and Frequency: DSSS, 2.4GHz
- With regards to security:
  - 4G DragonFlyEye™ technology
  - Tamper Alarm – when the unit is tilted
  - Unique electronic serial number
  - Data Security: 128bit AES encryption
  - Pet immune lens
  - Temperature compensation for the IR
  - Supports automatic over-the-air software upgrade programming and configuration

Certifications and approvals:

For more information, go to: www.essence-grp.com/pages/WeR/Home



Block Diagram Description

The 3 AA batteries (or optionally the DC power inlet) provide the power to the power management block, which convert it to several voltages needed by the components.

The main micro-controller gets data from PIR sensor, temperature sensor, ambient light sensor and tamper switch.

It interacts with the camera, JPEG encoder chip and with the RF-transceiver chip.

It stores the JPEG pictures in the serial flash memory as an intermediate buffer before transmitting it towards the control panel.

The product have a red indication LED and a strong white LED used as a flashlight to shoot color pictures in dark environments.