

January 17th, 2017

Project – Security Camera



Project timeline:

- Design phase initiation: March, 2017
- Prototype build: June, 2017
- Preproduction 3K-5K units: January, 2018

| Camera | |
|----------------------------|---|
| Camera Type | 2MP indoor IR Cube |
| Image Sensor | 1/2.8" 2MP CMOS sensor |
| Lens | TBD |
| Horizontal view angle | 103° - 160° field of view |
| IR working distance | 10m effective range in complete darkness |
| WDR | |
| Day/Night function | Mechanical IR cut filter, light sensor |
| Video & Audio | |
| Image Setting | Rotation: mirror, flip, mirror flip, corridor mode, Brightness, contrast, saturation, sharpness |
| | Brightness, contrast, saturation, sharpness |
| | Overlay capabilities: time, date, text and privacy Image |
| Video streaming | Simultaneous Motion JPEG, H.264 or H.265 |
| | Controllable frame rate and bandwidth |
| | Support unicast (Real Time Streaming Protocol) |
| Frame Rate | Motion JPEG : up to 30 fps at 1920 x 1080 |
| | H.264: up to 30 fps at 1920 x 1080 |
| Video compression | Motion JPEG |
| | H.264 or H.265 baseline/ main profile/high profile |
| Resolutions | Motion JPEG/H.264 or H.265: |
| | 2 Profile from 1920 x 1080 to 320 x 240 (total 5 resolutions) |
| | 2 Profile from 640 x 480 to 320 x 240 (total 3 resolutions) |
| Audio | Microphone monitoring 5-25 Khz |
| | Built-in speaker - up to 100 db, alarm capability |
| I/O & Connector | |
| Power Supply | Replaceable battery - TBD volts |
| Storage | Micro SD/SDHC/SDXC up to 32GB |
| Buttons | "Panic button" - front panel button 4 cm diameter |
| | Reset push button |
| Network | |
| Users | 5 simultaneous users |
| WIFI | Wi-Fi 802.11 a/b/g/n (2.4G & 5G Dual-band) |
| Security | Multiple user access levels with password protection, HTTPS encryption |
| Supported protocols | IPv4, IPv6, Bonjour, TCP/ IP, DHCP, DNS, DynDNS, PPPoE, ARP, |
| | ICMP, FTP, SMTP, NTP, UPnP, RTSP, RTP, RTCP, HTTP, HTTPS, SSL, |
| | TCP, UDP |

General

| | |
|----------------------|--|
| Housing | Polycarbonate + ABS |
| Illumination | Rear case peripheral LED illumination, blue color led's visible in day light |
| Operating conditions | Starting temperature: 0 ~ 40°C Humidity 10-100% RH |
| | Working temperature: -10~ 40°C Humidity 10-100% RH |
| Dimensions | Circular shape - 10 cm diameter, 3 cm height |
| Weight | up to 250 gr (including battery) |
| Bracket | Design for wall mount/hanging |
| Optional | Carbon monodioxiae sensor (example MQ-7) |