RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

FCC ID: 2AOKB-T8124R

EUT Specification

| EUT | SoloCam S230 | | | |
|----------------------------|--|--|--|--|
| Frequency band (Operating) | ⊠ WLAN: 2.412GHz ~ 2.462GHz | | | |
| | ☐ WLAN: 5.18GHz ~ 5.24GHz | | | |
| | ☐ WLAN: 5.745GHz ~ 5.825GHz | | | |
| | ☐ Others: Bluetooth: 2402-2480MHz | | | |
| Device category | ☐ Portable (<20cm separation) | | | |
| | ⊠ Mobile (>20cm separation) | | | |
| | ☐ Others | | | |
| Exposure classification | ☐ Occupational/Controlled exposure (S = 5mW/cm2) | | | |
| | ☐ General Population/Uncontrolled exposure (S=1mW/cm2) | | | |
| Antenna diversity | ⊠ Single antenna | | | |
| | ☐ Multiple antennas | | | |
| | ☐ Tx diversity | | | |
| | ☐ Rx diversity | | | |
| | ☐ Tx/Rx diversity | | | |
| Antenna gain (Max) | 3.5dBi | | | |
| Evaluation applied | ⊠ MPE Evaluation | | | |
| | ☐ SAR Evaluation | | | |

Limits for Maximum Permissible Exposure(MPE)

| Frequency | Electric Field | Magnetic Field | Power | Average | | | | | |
|---|----------------|----------------|------------------------------|---------|--|--|--|--|--|
| Range(MHz) | Strength(V/m) | Strength(A/m) | Density(mW/cm ²) | Time | | | | | |
| (A) Limits for Occupational/Control Exposures | | | | | | | | | |
| 300-1500 | | | F/300 | 6 | | | | | |
| 1500-100000 | | | 5 | 6 | | | | | |
| (B) Limits for General Population/Uncontrol Exposures | | | | | | | | | |
| 300-1500 | | | F/1500 | 6 | | | | | |
| 1500-100000 | | | 1 | 30 | | | | | |

Friis transmission formula: Pd=(Pout*G)\(4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in Mw

G= gain of antenna in linear scale

Pi=3.1416

R= distance between observation point and center of the radiator in cm

Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Max Measurement Result

| | Operating Mode | Measured Power | Tune up tolerance | Max. Tune up Power | Antenna Gain | Power density at 20cm | Power density Limits (mW/cm2) |
|---|-------------------|-------------------|----------------------|-----------------------|-----------------|-----------------------------|-------------------------------|
| | | (dBm) | (dBm) | (dBm) | (dBi) | (mW/ cm2) | (IIIVV/CIIIZ) |
| Ī | WIFI 2.4G | 18.03 | 18.03 ±1 | 19.03 | 3.5 | 0.0356 | 1 |

Result: No Standalone SAR test is required.