

# FCC RF Exposure

EUT Description: IP Camera Tester

Model No.: X9-MOVTADHS

FCC ID: 2A7OB-X9-MOVTADHS

## 1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,

Where:

Result =  $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in mw

D = Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

|          | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit (mW/cm <sup>2</sup> ) | SAR Test Exclusion |
|----------|--------------------|---------------------|--------------------------|---------------------------------|--------|-----------------------------|--------------------|
| 2.4GWIFI | 8.32               | 7.5±1(8.5)          | 7.079                    | 5                               | 2.199  | 3.0                         | Pass               |
| 5.2GWIFI | 7.78               | 7±1(8)              | 6.310                    | 5                               | 2.889  | 3.0                         | Pass               |
| 5.8GWIFI | 6.61               | 6±1(7)              | 5.012                    | 5                               | 2.411  | 3.0                         | Pass               |

Note:

PK Output power = conducted power.

Conducted power see the test report **HK2207123022-1E/2E/3E**

2.4GWIFI antenna gain = 2dBi

5GWIFI antenna gain = 2dBi

Per KDB 447498 D01, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 2.889 which is  $\leq 3$ , SAR testing is not required.

Note: Exclusion Thresholds Results =  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Distance = 5mm

Note: the device could not transmit simultaneously in 2.4G and 5G.