RF Exposure Evaluation Report

1 RF EXPOSURE

| Product Name: | Neideso Dash Cam |
|---------------|------------------------------------|
| Model No.: | N700, N100, N300, N500, N600, N900 |
| FCC ID: | 2BFJA-N700 |

2. RF Exposure Evaluation

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices.

2.1 LIMITS

According to FCC Part1.1310: 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 part1.1307(b)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|---|-------------------------------------|-------------------------------------|---|--------------------------------|
| (i) Limits for Occupational/Controlled Exposure | | | | |
| 0.3-3.0 | 614 | 1.63 | *(100) | <i>≦</i> б |
| 3.0-30 | 1842/f | 4.89/f | *(900/f ²) | <6 |
| 30-300 | 61.4 | 0.163 | 1.0 | <6 |
| 300-1,500 | | | f/300 | <6 |
| 1,500- 100,000 | | | 5 | <6 |

Table 1 to § 1.1310(e)(1)—Limits for Maximum Permissible Exposure (MPE)

(ii) Limits for General Population/Uncontrolled Exposure

| 0.3-1.34 | 614 | 1.63 | *(100) | <30 |
|-------------------|-------|--------|------------------------|-----|
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | <30 |
| 30-300 | 27.5 | 0.073 | 0.2 | <30 |
| 300-1,500 | | | f/1500 | <30 |
| 1,500- 100,000 | | | 1.0 | <30 |

F= Frequency in MHz Friis Formula

Friis transmission formula: $Pd = (Pout^*G)/(4^* Pi^* R 2)$ 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 id the limit of MPE . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.2 EUT RF EXPOSURE EVALUATION

5G-WIFI ANT1:2.27dBi

The Max Conducted Peak Output Power or Total Power refer to report No.: POCE240229001RF001

5.8GWIFI worst mode and channel:

| Test channel | Total Power(dBm) | Maximum tune-up Power (dbm) | Maximum tune-up Power (dbm) |
|----------------------------|------------------|--------------------------------|--------------------------------|
| 802.11a-5745MHz | 7.86 | 8±1 | 9 |
| 802.11n(HT20) - 5745MHz | 7.91 | 8±1 | 9 |

Test worst case

| Maximum tune-up Power | Maximum tune-up Power | Calculated value | Limit |
|-----------------------|-----------------------|------------------|----------|
| (dbm) | (mW) | (mW/cm2) | (mW/cm2) |
| 9 | 7.943 | 0.0027 | 1.0 |

Remark:

 $Pd = (Pout^*G)/(4^* Pi^* R^2) = (7.943^*1.686)/(4^*3.1415^*20^*20) = 0.0027, \quad G=10^{gain/10} = 1.686$

EUT wifi-5G module is more than 20cm away from the human body.

Calculated value is less than the limit value of 1.0, so there is no sar requirement.