

Analysis Report

Report No.: 17090332HKG-001

The CE601 is a Digital Bicycle Camera.

The Equipment Under Test (EUT) operates at frequency range of 2402MHz to 2480MHz with 2MHz channel spacing for BLE portion. And it operates at 2457MHz only for ANT PLUS portion. The EUT pairs with smart device application through Bluetooth for normal function such as video recording. The EUT is powered by 3.7VDC rechargeable battery.

2.4GHz Bluetooth portion:

Modulation Type: GFSK

Antenna Type: Integral, Internal (PCB Trace)

Antenna gain is 0dBi

EIRP range is -8dBm to +4dBm

Frequency Range:

Bluetooth BLE 2402MHz - 2480MHz, 2MHz channel spacing, 40 channels

Bluetooth ANT+ 2457MHz, single channel

According to the KDB 447498:

Conducted Power = EIRP – antenna gain
= 4dBm - 0dBi = 4dBm = 2.51 mW

The SAR Exclusion Threshold Level:
= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$
= $3.0 * 5 / \text{sqrt}(2.480)$ mW
= 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.