

# Safety Human Exposure

## 1.1 Radio Frequency Exposure Compliance

### 1.1.1 Electromagnetic Fields

RESULT:

Pass

|                           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| Report No.                | : CN22FP4Z 003                                                       |
| Test Specification        |                                                                      |
| Test item                 | : Thermal Camera                                                     |
| Identification / Type No. | : M6T25                                                              |
| Additional Type No.       | : M6T19, M6D25, M6D19, M6S25, M6S19                                  |
| FCC ID                    | : 2AYGT-9000                                                         |
| Test standard             | : CFR47 FCC Part 2: Section 2.1091<br>FCC KDB Publication 447498 v06 |

#### ➤ FCC requirements

**FCC requirement:** Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20cm normally can be maintained between the user and the device.

#### MPE Calculation Method according to KDB 447498 v06

Power Density:  $S_{(mW/cm^2)} = PG/4\pi R^2$  or  $EIRP/4\pi R^2$

Where:

S = power density (mW/cm<sup>2</sup>)

P = power input to the antenna (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (cm)

#### The nominal maximum conducted output power specified:

802.11b/g/n: 16.68 dBm

From the peak RF output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain (3 dBi 802.11b/g/n), the RF power density can be calculated as below:

For 802.11b/g/n:  $S_{(mW/cm^2)} = PG/4\pi R^2 = 0.018 \text{ mW/cm}^2$

#### Limits for Maximum Permissible Exposure (MPE) according to FCC Part 1.1310:

1.0 mW/cm<sup>2</sup>