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FEDERAL COMMUNICATIONS COMMISSIONS

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046

Subject: Compliant to FCC § 15.521 technical requirements for FCC ID: 2A5PE-YUSHU005

(a) UWB devices may not be employed for the operation of toys. Operation onboard an aircraft, a ship or a satellite is prohibited.

Reply: Compliant. The product is used worn in hand. UWB Tracking Remote Control should be used with our base station, UWB system will automatically sleep if it is separated from us for a long time, and UWB will not work if it is separated from the system. The ships, aircraft and satellites can't get signals from base stations because of distance.

(b) Manufacturers and users are reminded of the provisions of § 15.203 and 15.204.

Reply: Compliant. There is no any external radio frequency power amplifier or amplifier kit used for this product. And the product is sold together with the antenna, and A permanently attached antenna will be arranged in product.

(c) Emissions from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in § 15.209, rather than the limits specified in this subpart, provided it can be clearly demonstrated that those emissions from the UWB device are due solely to emissions from digital circuitry contained within the transmitter and that the emissions are not intended to be radiated from the transmitter's antenna. Emissions from associated digital devices, as defined in § 15.3(k), e.g., emissions from digital circuitry used to control additional functions or capabilities other than the UWB transmission, are subject to the limits contained in Subpart B of this part.

Reply: All radiation spurious emissions are compliant to FCC § 15.519 & 15.209.

(d) Within the tables in §§ 15.509, 15.511, 15.513, 15.515, 15.517, and 15.519, the tighter emission limit applies at the band edges. Radiated emission levels at and below 960 MHz are based on measurements employing a CISPR quasi-peak detector. Radiated emission levels above 960 MHz are based on RMS average measurements over a 1 MHz resolution bandwidth. The RMS average measurement is based on the use of a spectrum analyzer with a resolution bandwidth of 1 MHz, an RMS detector, and a 1 millisecond or less averaging time. Unless otherwise stated, if pulse gating is employed where the transmitter is quiescent for intervals that are long compared to the nominal pulse repetition interval, measurements shall be made with the pulse train gated on. Alternative measurement procedures may be considered by the Commission.

Reply: According to testing requirements, all radiation spurious emissions are compliant to UWB limits for FCC 15.519, including for the tighter emission limit applies at the band edges.

(e) The frequency at which the highest radiated emission occurs,  $f_M$ , must be contained within the UWB bandwidth.

Reply: Compliant. The  $f_M$  is contained within the UWB bandwidth, such as 10dB bandwidth.

(f) Imaging systems may be employed only for the type of information exchange described in their specific definitions contained in §15.503. The detection of tags or the transfer or data or voice information is not permitted under the standards for imaging systems.

Reply: The product is not used for imaging system.

(g) When a peak measurement is required, it is acceptable to use a resolution bandwidth other than the 50 MHz specified in this subpart. This resolution bandwidth shall not be lower than 1 MHz or greater than 50 MHz, and the measurement shall be centered on the frequency at which the highest radiated emission occurs,  $f_M$ . If a resolution bandwidth other than 50 MHz is employed, the peak EIRP limit shall be  $20 \log (RBW/50) \text{ dBm}$  where RBW is the resolution bandwidth in megahertz that is employed. This may be converted to a peak field strength level at 3 meters using  $E(\text{dBuV/m}) = P(\text{dBm EIRP}) + 95.2$ . If RBW is greater than 3 MHz, the application for certification filed with the Commission must contain a detailed description of the test procedure, calibration of the test setup, and the instrumentation employed in the testing.

Reply: Complaint. Testing Peak as the requirements for the test procedure, calibration of the test setup, and the instrumentation employed.

(h) The highest frequency employed in §15.33 to determine the frequency range over which radiated measurements are made shall be based on the center frequency,  $f_c$ , unless a higher frequency is generated within the UWB device. For measuring emission levels, the spectrum shall be investigated from the lowest frequency generated in the UWB transmitter, without going below 9 kHz, up to the frequency range shown in §15.33(a) or up to  $f_c + 3/(\text{pulse width in seconds})$ , whichever is higher. There is no requirement to measure emissions beyond 40 GHz provided  $f_c$  is less than 10 GHz; beyond 100 GHz if  $f_c$  is at or above 10 GHz and below 30 GHz; or beyond 200 GHz if  $f_c$  is at or above 30 GHz.

Reply: Compliant. Testing range is 9kHz to 40GHz, which compliant to this requirement for this product. And all radiation spurious emissions are compliant to UWB limits for FCC 15.519.

(i) The prohibition in §2.201(f) and 15.5(d) of this chapter against Class B (damped wave) emissions does not apply to UWB devices operating under this subpart.

Reply: This product will not produce Class B emissions (damped wave).

(j) Responsible parties are reminded of the other standards and requirements cross referenced in §15.505, such as a limit on emissions conducted onto the AC power lines.

Reply: Compliant. This product is tested and met the limit for AC power lines conducted emission about FCC 15.207(a)

Sincerely,

Signature *Feng Li*

Name: Feng Li

Title: Product Manager