# Anbotek Product Safety

### **RF EXPOSURE EVALUATION**

According to FCC 1.1310: 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 §1.1307(b)

### FCC ID: 2AY7J-INSPIRE

### **EUT Specification**

EUT atek unbotek A	INSPIRE 3D Scanner
Frequency band	WLAN: 2.412GHz ~ 2.462GHz
(Operating)	🖾 RLAN: 5.150GHz ~ 5.250GHz
antek Anboten Anbo	🗌 RLAN: 5.745GHz ~ 5825GHz
Anbo tek abotek Anboic	Others
Device category	□ Portable (<20cm separation)
Anboten Anu stek	⊠Mobile (>20cm separation)
tek abotek Anbo, A	Others
Exposure classification	Occupational/Controlled exposure
npoter And stek anbotek	General Population/Uncontrolled exposure
Antenna diversity	□ Single antenna
abotek Anbore Ani	⊠ Multiple antennas
Alle Lotek Anboten Anbo	□ Tx diversity
Ando tek stootek An	□ Rx diversity
rek Anboit Ain wotek	□ Tx/Rx diversity
Max. output power	19.70 dBm (0.0933W)
Antenna gain (Max)	ANT1/ANT2: 2.39dBi
Directional antenna gain	5.40dBi
Evaluation applied	⊠ MPE Evaluation
Anbotek Anbo	SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time	
Anbo tek nbot	(A) Limits for (	Occupational/Con	trol Exposures	botek Anbor	
300-1500	otek poto	And stek-	F/300	botek 6 Anbote	
1500-100000	otek - onbotek	Anbo	otek 5tool	Ann otel 6	
K Anboten (E	B) Limits for Gene	ral Population/Ur	ncontrol Exposure	es And Lek	
300-1500	Anbor An	ek Artorer	F/1500	30	
1500-100000	Anboten Ant	welk abotek	Anboy J An	30	

#### Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com Hotline 400-003-0500 www.anbotek.com.cn





## Friis transmission formula: Pd=(Pout\*G)\(4\*pi\*R2)

#### Where

Pd= Power density in mW/cm<sup>2</sup> 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 the limit of MPE. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

### **Measurement Result**

Operating Mode	Maximum output power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm <sup>2</sup> )	Power density Limits (mW/cm <sup>2</sup> )
RLAN	19.70	19.70 ±1	20.70	5.40	0.0811	1 Anbe

Result: No Standalone SAR test is required.

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