



RF EXPOSURE EVALUATION

FCC ID: 2A6I2-TPBGD21

Product	:	Aura Zoom Fill light
Model Name	:	TPBGD21-01
Brand	:	TELESIN
Report No.	:	PTC26033119003E-FC02
Prepared for		
Shenzhen Telesin Digital Co.,Ltd.		
No. 2001, West Tower, Lepu Building, No. 66 Xingke Road, Yuncheng Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province, China		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



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General Information

Applicant's name	:	Shenzhen Telesin Digital Co.,Ltd.
Address	:	No. 2001, West Tower, Lepu Building, No. 66 Xingke Road, Yuncheng Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province, China
Manufacture's name	:	Shenzhen Telesin Digital Co.,Ltd.
Address	:	No. 2001, West Tower, Lepu Building, No. 66 Xingke Road, Yuncheng Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province, China
Product Name	:	Aura Zoom Fill light
Model Name	:	TPBGD21-01
Operating frequency	:	2402-2480MHz For DTS
Numbers of Channel	:	40 channels For DTS
Antenna Type	:	Chip Antenna
Antenna Gain	:	3.11 dBi
Type of Modulation	:	GFSK For DTS
Power supply	:	DC 3.7V 600mAh by internal battery DC 5V 1A by DC port
Hardware Version	:	N/A
Software Version	:	N/A
Test sample No.	:	PTC26033119003E-1/2,PTC26033119003E-2/2.



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TEST FACILITY

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong,
China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219



Standard Requirement

According to § 15.247(i) and § 1.1307b(1), 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 levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50\text{mm}$ are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g SAR extremity SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is $\leq 50\text{mm}$ and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is $< 5\text{mm}$, a distance of 5mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.



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RF Output power

Channel (MHz)	Maximum output power (dBm)	Max Tune Up Power(dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
2440	-0.52	0.5	1.122	5	0.351	3	DTS-BLE

Conclusion:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.