RF EXPOSURE EVALUATION
FCC ID: 2A595-YH17

Product Name	:	LED remote controller
Model Name	:	YH17
Additional Models	:	YH21,YH-RF17H,YH-RF15,YH-RF11,YH-RF13,YH-RF12
Models Difference	:	The internal PCB is identical, only the external panel is different because the devices are designed to adjust different parameters of LED lights.
Operation Frequency:	:	433.925MHz
Antenna installation:	:	PCB Antenna
Antenna Gain:	:	0dBi
Type of Modulation	:	ASK
Power supply	:	CR2025 3V
Hardware Version	:	YH-21.08
Software Version	:	YH-17KEY

Standard Requirement

According to § 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 ≤ 50mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]*[√f(GHz)] ≤3.0 for 1-g SAR and ≤7.5 for 10-g SAR extremity SAR, where

- f(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 ≤ 50mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is <5mm, 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 quality for TCB approval.

RF Output power

Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)
433.925	45.95	-49.25

Note: EIRP=E-104.8+20logD,
Where
E is the electric field strength in dBμV/m.
EIRP is the equivalent isotropically radiated power in dBm.
d is the specified measurement distance in m.
where D=3, EIRP=E-95.2.

Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
433.925	-49.25	-49.25±1	0.000015	5	0.000002	3	SRD

According to KDB 447498, The device only support SRD function, and no simultaneous SAR measurement is required..

Signature

Simon Pu
Manager
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