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Maximum Permissible Exposure Report

Product: REMOTE CONTROL

Model Name : ACR3

FCC ID : VVP-ACR3

Test Regulation: 47 CFR FCC Part 2.1091

Received Date : 2025/6/12

Test Date : $2025/6/17 \sim 2025/6/18$

Issued Date : 2025/9/16

Applicant: Leyant Industry Co. Ltd

No. 20, Lane 929, San Feng Rd., Feng Yuan City 420, Taichung

Hsien Taiwan

Issued By : Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd.,

Zhudong Township, Hsinchu County, Taiwan





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Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000 Facsimile (FAX) :+886-3-583-7948



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REVISION HISTORY

Original Test Report No.: 4791783773-US-R1-V0

Revision	Test report No. 4791783773-US-R1-V0	Date	Page revised	Contents
Original	4791783773-US-R1-V0	2025/9/16	-	Initial issue

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1. Attestation of Test Results

APPLICANT: Leyant Industry Co. Ltd

No. 20, Lane 929, San Feng Rd., Feng Yuan City 420, Taichung Hsien

Taiwan

MANUFACTURER: Leyant Industry Co. Ltd

No. 20, Lane 929, San Feng Rd., Feng Yuan City 420, Taichung Hsien

Taiwan

EUT DESCRIPTION: REMOTE CONTROL

BRAND: BEST

MODEL: ACR3

SAMPLE STAGE: Mass-Production

APPLICABLE STANDARDS

STANDARD

Test Results

47 CFR FCC Part 2.1091

PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:

Approved and Authorized By:

Sally Lu

Date: 2025/9/16

Eric Lee

Date: 2025/9/16

Project Handler

Senior Laboratory Engineer

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

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2. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with KDB 447498 D04 Interim General RF Exposure Guidance v01.

3. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.	
Address Building A, B and E, No. 372-7, Sec. 4, Zhongxing I Zhudong Township, Hsinchu County, Taiwan		
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.	

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4. Equipment Under Test

4.1. Description of EUT

Product REMOTE CONTROL	
Brand Name	BEST
Model Name	ACR3
Normal Voltage	12Vdc from Battery

Operating Frequency	SRD: 434MHz
Sample ID	Radiated Test:8570610

Note:

- 1. For this report measurement uncertainty, statement of conformity, determining compliance, it is necessary to refer to the original measurement report of EUT.
- 2. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual, the laboratory shall not be held responsible.

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4.2. Description of Available Antennas

Ant.	Transmitter	Frequency	Brand	Model	Maximum	Ant. Type	Connector
No.	Circuit	Range	Name	Name	Gain (dBi)		Type
1	Chain0	434MHz	TLC	PK22-RF	-15.00	Copper Wire	None

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual, the laboratory shall not be held responsible.

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5. Requirement

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz) Electric Field Strength (E) (V/m) Magnetic Field Strength (H) Density (S) (E 2, H 2 or S) (mW/cm²) (minutes)							
0.3-1.34	614	1.63	*100	30			
1.34-30	824/f	2.19/f	*180/f ²	30			
30-300	27.5	0.073	0.2	30			
300-1500			f/1500	30			
1500-100,000			1.0	30			

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Power Density (S) is calculated by the following formula:

 $S=(P*G)/4\pi R^2$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator <math>R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

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6. General RF Exposure Test Exemption

The corresponding Exclusion Threshold condition, listed below:

1) Blanket Exempt: Following 47 CFR 1.1307(b)(3)(i)(A), the available maximum time-averaged power is no more than 1 mW.

2) SAR Exempt: Following 47 CFR 1.1307(b)(3)(i)(B), the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold *P*_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). *P*_{th} is given by:

$$P_{th} \; (\text{mW}) = \begin{cases} ERP_{20\;cm} (d/20\;\text{cm})^x & d \leq 20\;\text{cm} \\ \\ ERP_{20\;cm} & 20\;\text{cm} < d \leq 40\;\text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20,cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20\;cm}\;(\text{mW}) = \begin{cases} 2040f & 0.3\;\text{GHz} \le f < 1.5\;\text{GHz} \\ \\ 3060 & 1.5\;\text{GHz} \le f \le 6\;\text{GHz} \end{cases}$$

d = the separation distance (cm);

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3) MPE Exempt: Following 47 CFR 1.1307(b)(3)(i)(C), using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation					
RF Source frequency (MHz)	Threshold ERP (watts)				
0.3-1.34	1,920 R ² .				
1.34-30	3,450 R ² /f ² .				
30-300	3.83 R ² .				
300-1,500	0.0128 R ² f.				
1,500-100,000	19.2R ² .				

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7. Radio Frequency Radiation Exposure Evaluation

(1) General RF Exposure Test Exemption

Option	Evaluation Method	Clause
\boxtimes	Blanket Exempt	47 CFR 1.1307(b)(3)(i)(A)
	SAR Exempt	47 CFR 1.1307(b)(3)(i)(B)
	MPE Exempt	47 CFR 1.1307(b)(3)(i)(C)

Note: Max. ERP (dBm) = Max. Average power (dBm) + Antenna Gain (dBi) - 2.15 (dB)

Evaluation Frequency	Radiated Field Strength	Max. EIRP	Max. EIRP	Threshold EIRP	
(MHz)	(dBuV/m)@3m	(dBm)	(mW)	(W)	
434.00	77.12	-18.04	0.016	0.0001	

Note:

1. For Calculate the EIRP from the radiated field strength in the far field using Equation:

 $EIRP = E_{Meas} + 20\log d_{Meas} - 104.7$

Where,

EIRP is the equivalent isotropically radiated power, in dBm.

 E_{Meas} is the field strength of the emission at the measurement distance, in dB μ V/m.

 d_{Meas} is the measurement distance, in m.

 $EIRP = 77.12 + 20\log(3) - 104.7 = -18.04 dBm$

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

END OF REPORT

Underwriters Laboratories Taiwan Co., Ltd.

Telephone :+886-2-7737-3000 Facsimile (FAX) :+886-3-583-7948