



RF EXPOSURE REPORT

Report No.: 20231217G17902X-W2

Product Name: Universal Remote Key

Model No.: XKKF

FCC ID: 2AI4T-XKKF

Applicant: Shenzhen Xhorse Electronics Co., Ltd.

Address: Floor 28, Block A, Building NO.6, international innovation Valley,

Nanshan District, Shenzhen

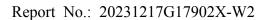
Dates of Testing: 12/21/2023–12/27/2023

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street,

Nanshan District, Shenzhen, Guangdong, China.

This test report consists of 7 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CCIC-SET. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to CCIC-SET within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.





Test Report

Product.....: Universal Remote Key

Brand Name....: Xhorse

Trade Name: Xhorse

Applicant.....: Shenzhen Xhorse Electronics Co., Ltd.

Applicant Address...... Floor 28, Block A, Building NO.6, international innovation

Valley, Nanshan District, Shenzhen

Manufacturer.....: Shenzhen Xhorse Electronics Co., Ltd.

Manufacturer Address.....: Floor 28, Block A, Building NO.6, international innovation

Valley, Nanshan District, Shenzhen

Test Standards.....: 47 CFR Part 2.1093

Test Result.....: Pass

Chuiwang Zhang, Test Engineer

Chris You, Senior Engineer

Approved by.....: 2023.12.27

Yang Fan, Manager

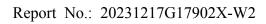
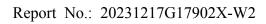




TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1. EUT Description	5
1.2. EUT Description	6
1.3. Laboratory Facilities	6
1.4. Laboratory Location	6
2. TECHNICAL REQUIREMENTS SPECIFICATION IN CFR TITLE 47 PART 2.1093	7
2.1. Evaluation method	7
2.2. Evaluation Results	7
2.2 Conclusion	7





Change History				
Issue	Date	Reason for change		
1.0 2023.12.27		First edition		



Report No.: 20231217G17902X-W2

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Universal Remote Key		
Model No.	XKKF		
Device Type	Portable Device		
Operation Frequency	315 MHz; 433.92 MHz		
Modulation Type	ASK		
Antenna gain	2.0 dBi		
Antenna Type	PCB Antenna		

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.



Report No.: 20231217G17902X-W2

1.2. EUT Description

EUT has been tested according to the following standards.

No.	Identity	Document Title			
1	47 CFR Part 1 Practice and Procedure				
2	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations			
2	KDB 447498 D01 General	RF Exposure Procedures and Equipment Authorization			
3	RF Exposure Guidance v06	Policies for Mobile and Portable Devices			

1.3. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.4. Laboratory Location

Company Name:	CCIC Southern Testing Co., Ltd.		
Address:	Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China		



Report No.: 20231217G17902X-W2

2. Technical Requirements Specification in CFR Title 47 Part 2.1093

2.1. Evaluation method

According to KDB 447498 D04 Interim General RF Exposure Guidance v01 RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices.

RF Exposure Test Exemptions for Single Source:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

According to the calculation formula of power:

$$EIRP = P \times G = \frac{(E \times d)^2}{30}$$
, so $P = \frac{(E \times d)^2}{30 \times G}$.

Where:

P = Transmitter output power in watts

G = Numeric gain of the antenna in the direction of interest relative to an isotropic radiator

E = Electric field strength in V/m --- $10^{((dB\mu V/m)/20)}/10^6$

d = Measurement distance in meters (m) --- 3 m

2.2. Evaluation Results

Frequency (MHz)	Maximum field strength@3 m (dBμV/m)	Maximum field strength@3 m (V/m)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (m)	Output power (mW)	Limit for SAR test exemption (mW)
315	48.90	0.00028	2.0	1.58	3	0.00001	1
433.92	58.91	0.00088	2.0	1.58	3	0.00015	1

2.3. Conclusion

Cuz Output power < 1mW, The device is exempt from the SAR test and satisfies RF exposure evaluation.

** END OF REPORT **