Product Specification

1. **Product Name：** Dog Trainer Collar-Transmitter

Model: LX-XG-T ,

Product Name： Dog Trainer Collar-Receiver

Model: LX-XG-R

2.Product Numbers: ZD-XG001

3.Version: V1.1

4.Manufacturer: Shenzhen Zhongdianhexin Technology Co., Ltd.

Version	Date	Version update record	Approved
V1.0		Basic Function	

Contents

一、**Overview**

二、**Product Specifications**

三、**Environmental conditions**

四、**Electrical Characteristics**

1、Input Characteristic

2、Output Characteristics

3、Protection Characteristics

4、Control Characteristics

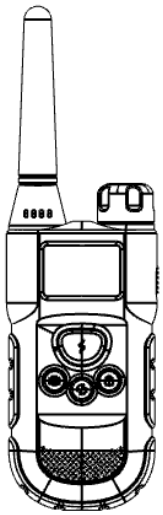
五、**Electrical Schematic Diagram**

六、**Environmental test requirements**

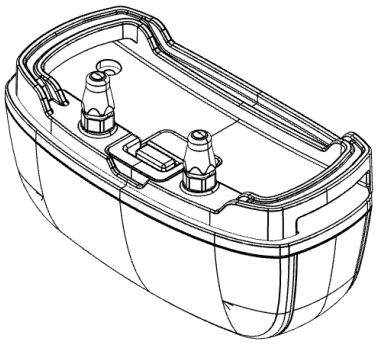
七：**FCC Caution:**

一、Product Description

二、Product Image



LX-XG-T



LX-XG-R

Product Description:

The dog training device adopts dual main control MCU, which can realize the functions of vibration, electric shock, recording and playback, and the function of multi-mode training for pets. Using the master MCU, the handheld terminal can be paired with multiple receivers, realizing the purpose that a single remote control device can control multiple pets.

Features:

1.Using smart chip technology and multiple protection circuits, the lithium battery is charged by the lithium battery charging IC, and the voltage of the lithium battery is converted from the LDO to the voltage required by the system.

2.The handheld segment LCD displays the current working mode, the intensity of the electric shock, the power of the handheld segment and the receiving end, channels and other information.

3.A single high-brightness LED indicates the working status of the circuit.

4.The handheld section is designed with a safety lock to avoid manipulation.

5.The input interface adopts the international general Micro USB.

二、Product Specifications

Input Current	Input voltage range	working frequency	Mark
310MA± 10MA	4.5V-5.5VDC	433.301Mhz	

三、**Environmental conditions**

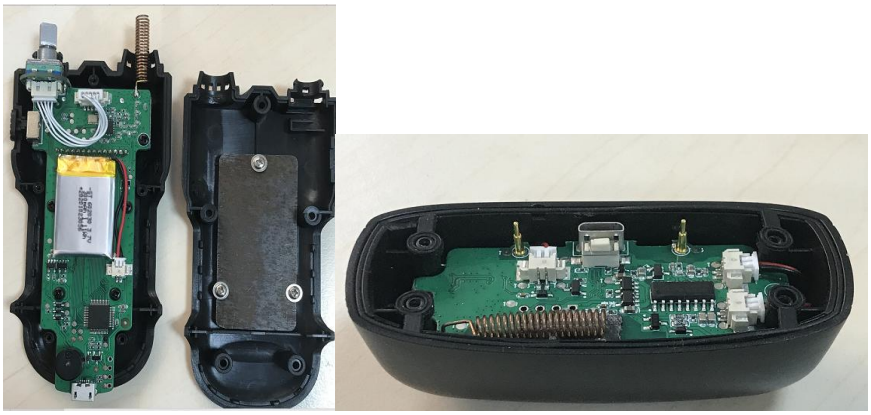
Serial number	**Project**	**Technical index**	**Unit**	**Mark**
1	Operating temperature	-10-65	℃	
2	Storage temperature	-40－+70	℃	
3	Relative humidity	20%－90%		
4	Cooling method	Natural air cooling		

四、**Electrical Characteristics**

1	**Input Characteristics**			
Item	**Project**	**Technology Requirement**	**Unit**	**Mark**
1.1	Rated input voltage	5V	Vdc	
1.2	Input voltage range	4.5-5.5	Vdc	
1.3	Maximum input current	≤0.31	A	
2	**Output Characteristics**			
Item	**Project**	**Technology Requirement**	**Unit**	**Mark**
2.1	Audio output power	0.5	W	
2.2	Maximum output current of electric shock	≤1	MA	
2.3	Vibration motor rated speed	16000rpm±2500	rpm	

五、Physical Picture

PCB layout diagram and product internal space diagram



六：Environmental Test Requirements

Item	Test Project	Test Conditions	Test Items
1	High temperature storage test	1 2 hours at 70℃ 2, No packaging, no electricity	1 .Exterior 2 .Electrical performance (recovery at room temperature for two hours, normal work)
2	Low temperature storage test	1 －40±5℃, 2 hours 2 No packaging, no electricity	1 .Exterior 2 . Electrical performance (recovery at room temperature for two hours, normal work)
3	High temperature work test	1 Under rated conditions 2 Environment temperature 40℃	1. The switch function is normal 2 . Normal performance
4	Low temperature work test	1 Under rated conditions 2 Environment temperature 10℃	1 .Device appearance 2 .Normal performance
5	Vibration test	It can withstand random vibrations of 5 to 500 Hz in three mutually perpendicular directions. The acceleration spectrum density in the frequency range of 5 to 10 Hz is 10 m2/s3, the acceleration spectrum density in the frequency range of 10 to 200 Hz is 3 m2/s3, and the frequency is 200 to 500 Hz. The range of acceleration spectrum density is 1m2/s3, 20 minutes in each direction	
6	Aging	Product aging is above 2H	

七、FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.