



# IN-EAR MONITOR WIRELESS SYSTEM

Manual

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## CERTIFICATION

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**This Class B digital apparatus complies with Canadian ICES-003.**

IC Caution: RSS-Gen Issue 4 December 2014" & "CNR-Gen 4e Décembre 2014:

This device complies with Industry Canada licence-exempt RSS standard(s).

**Operation is subject to the following two conditions:**

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

**Radio Approvals:**

FCC Part 15.249, FCC Part 15 B, RSS-210 (Canada), EN 300 440 (Europe), EN 301.489 (Europe), Japan Radio 2.4 GHz Band (Japan), MIC ARIB STD-T66 (Japan), California 65, CE.

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## CERTIFICATION

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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 UNDESIRE OPERATION.

**Warning:** Changes or modifications not expressly approved in writing by Xvive may void the users authority to operate this equipment.

**RF Exposure Statement:** This transmitter must not be co-located or operated in conjunction with any other antennae or transmitter.

**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 the 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.

This Class B digital apparatus complies with Canadian ICES-003.



**CAUTION**  
**RISK OF ELECTRIC SHOCK**  
**DO NOT OPEN**



**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,  
DO NOT REMOVE SCREWS.  
NO USER-SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,  
DO NOT EXPOSE THE APPLIANCE TO RAIN OR MOISTURE.



Hereby, **SHENZHEN FZONE TECHNOLOGY CO., LTD**,  
declares that this type of equipment is in compliance  
with the essential requirements and other relevant  
provisions of Directive 2014/53/EU

**SAFETY INSTRUCTIONS FOR**  
**LITHIUM-ION**  
**RECHARGEABLE BATTERIES**

If abused or misused, the rechargeable batteries may leak. In extreme cases, they may even present a risk of explosion, fire, heat, smoke or gas. Xvive does not accept any liability for damage arising from abuse or misuse.

- Keep away from children.
- Only charge rechargeable batteries with chargers recommended by Xvive.
- Observe correct polarity.
- Pack/store charged rechargeable batteries so that the terminals cannot contact each other (danger of shorting out/fire hazard).
- Do not expose to moisture.
- Switch rechargeable battery-powered products off after use.
- Only charge rechargeable batteries at ambient temperatures between 10°C/50°F and 40°C/104°F.
- When not using rechargeable batteries for extended periods of time, charge them regularly (about every three months).
- Do not mutilate or dismantle.

- Do not heat above 60°C/140°F, e.g. do not expose to sunlight or throw into a fire.
- Immediately remove rechargeable batteries from obviously defective products.
- Do not continue to use defective rechargeable batteries.
- Only use rechargeable batteries specified by Xvive.
- Dispose of rechargeable batteries at special collection points or return them to your specialist dealer.
- Store the products in a cool and dry place at room temperature (approx. 20°C/68°F).
- Remove the rechargeable batteries if the products will not be used for extended periods of time.

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## INFORMATION ABOUT COLLECTION AND DISPOSAL OF OLD ITEMS AND USED BATTERIES

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These symbols on the products, packaging, or on any documents in the package mean it is incorrect to mix the used electrical and electronic products and batteries with general household garbage.

To protect our environment, please take old products and used batteries to proper collection places, and follow your national legislation and the Directives 2012/19/EU and 2006/66/EC.

To deal with these old products and batteries properly, please help to save valuable resources and prevent any possibility of side effects on human health and our environment due to the inappropriate disposal of the old products and used batteries.

You can contact your local authority for getting more helpful information on how to dispose the recycling and collection of the old products and batteries.

### [For business users in the European Union]

If you want to discard electrical and electronic item, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. Please contact your local authorities or dealer for more information on disposal of old items and used batteries.



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**IMPORTANT SAFETY INSTRUCTIONS**  
**PLEASE READ THESE INSTRUCTIONS AND KEEP THEM IN A SAFE PLACE**

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WARNING: BEFORE USING YOUR XVIVE 2.4 GHz WIRELESS IN-EAR MONITOR SYSTEM,  
CAREFULLY READ THE OPERATING INSTRUCTIONS.

1. Carefully observe all instructions in the U4 manual.
2. Do not to perform service operations beyond those described in the U4 Manual. Service is required when the device was damaged in any way, such as:
  - liquid was spilled or objects were dropped into the device,
  - the unit was exposed to rain or moisture,
  - the unit does not operate normally or significant changes in performance occur,
  - the unit is dropped or the housing is damaged.
3. Do not place near heat sources, such as radiators, heating ducts, or appliances which produce heat.
4. Guard the device against objects or liquids entering the device. Do not use or store the unit close to water.
5. Clean only with a damp cloth.
6. Only use attachments/accessories specified by the manufacturer.
7. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."



## WARNING

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LISTENING TO AUDIO AT EXCESSIVE VOLUMES CAN CAUSE PERMANENT HEARING DAMAGE. USE AS LOW A VOLUME AS POSSIBLE.

Overexposure to excessive sound levels can damage your ears, resulting in permanent noise-induced hearing loss. Do not use earphones for a long time and set the volume below 70%.

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## PACKAGE DETAILS

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U4 Transmitter	1x
U4 Receiver	1x
USB Cable	1x
XLR Male to 1/4" TS Male Adapter	1x
Manual	1x
Bag	1x

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## U4 SET PRODUCT INTRODUCTION

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The U4 personal wireless monitoring system provides high-fidelity sound reproduction for performers onstage, in the studio and in rehearsal. This is a portable wireless system with nothing to set up. Just plug-and-play to immediately enjoy your monitoring system!

### FEATURES:

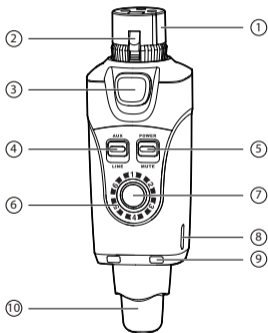
- 2.4 Ghz wireless in-ear monitoring system
- Solid RF connection over a range of up to 27 m / 90 feet (actual range depends on RF signal absorption, reflection and interference)
- Up to 107 dB signal-to-Noise ratio 110 dB for clear and detailed audio at any volume
- High resolution audio at 24 bit / 48 kHz
- Wide frequency response range 20 Hz – 20 kHz
- Dynamic range 107 dB
- Less than 5 ms latency, simultaneous transmission on 6 channels
- 5 hours of battery life (rechargeable battery for both Transmitter & Receiver)
- Smooth frequency response with any kind of headphones
- Balanced mono XLR or unbalanced mono TS input

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## BASIC OPERATION

### U4 TRANSMITTER

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- ① Input: balanced XLR input jack
- ② Spring: circumferential spring provides ground connection to metal housing parts
- ③ Lock: secures transmitter
- ④ Aux/Line mode: select AUX or line level mode
- ⑤ Power switch: switches unit on/off
- ⑥ Channel status LED: indicates selected channel
- ⑦ Channel switch: selects channels 1-6
- ⑧ USB charging port
- ⑨ Power status LED, indicates power status:  
LED off = 100% ~ 30%  
Solid red = 29% ~ 11%  
Blinking red = less than 10%
- ⑩ Antenna

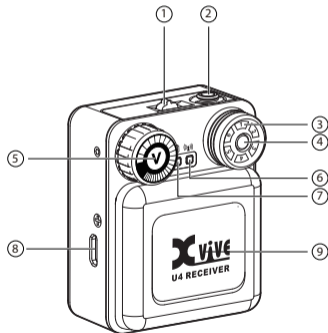


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## BASIC OPERATION

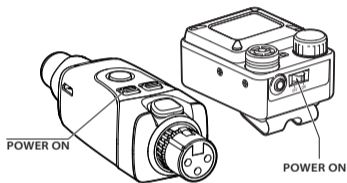
### U4 RECEIVER

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- ① Power switch: switches unit on/off
- ② Headphone Output: 3.5mm output  
Connect to earphones or headphones
- ③ Channel status LED: indicates selected channel
- ④ Channel switch: selects Channels 1-6
- ⑤ Volume control: adjust the volume of headphone output
- ⑥ RF Status LED:  
ON = Transmitter is on and link is established  
Flashing = Signal connection interference  
OFF = Transmitter off or unlinked
- ⑦ Power status LED, indicates power status:  
Led off = 100% ~ 30%  
Solid red = 29% ~ 11%  
Blinking red = less than 10%
- ⑧ USB charging port
- ⑨ Antenna

## QUICK START



### POWER ON

Turn the power switch to the 'on' position: the channel indicator will light up.

### BATTERIES AND CHARGING

The U4 includes a USB charging cable, which you can connect to a USB charger adapter or other USB charging device.

**Note:** Turn off the power switch while charging. Please do not use the U4 while charging—this may reduce battery life.

Connect to  
the socket

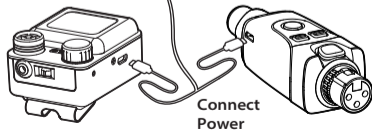


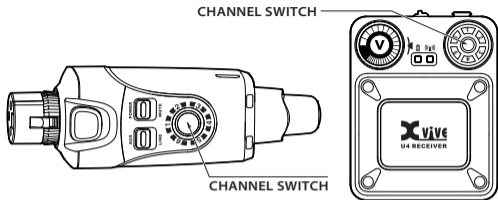
Always store the U4 at  
room temperature

When storing the unit,  
please check the  
battery state regularly  
and charge if necessary.

CHARGING TIMES      BATTERY LIFE

15 minutes	30 minutes
30 minutes	1 hour
1 hour	2 hours
2.5 hour	5 hours



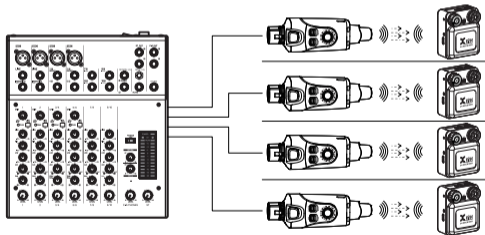


## PAIR TRANSMITTER AND RECEIVER

The U4 has six channels. Use the channel switch button to switch the channel. Set receiver and transmitter to the same channel. The blue LED on the receiver will be lit solidly when the connection was established successfully.

## SINGLE TRANSMITTER AND MULTIPLE RECEIVERS

If you want to add more receivers, just set all the receivers to the same channel as the transmitter.

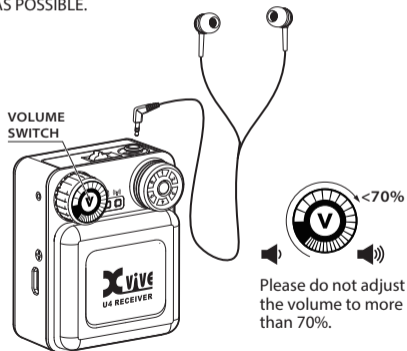


MAX. 6 CHANNELS

## QUICK START

### VOLUME ADJUSTMENT

LISTENING TO AUDIO AT EXCESSIVE VOLUMES CAN CAUSE PERMANENT HEARING DAMAGE. USE AS LOW A VOLUME AS POSSIBLE.

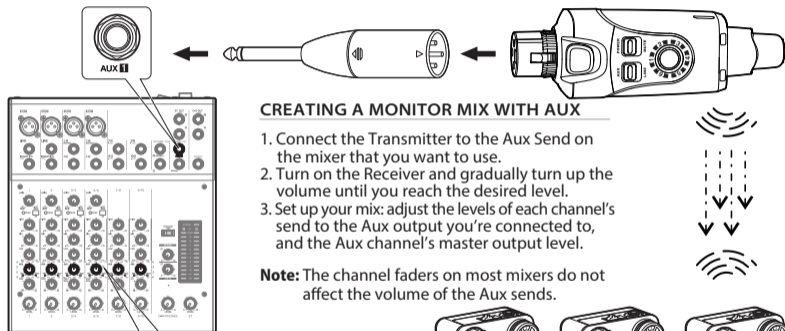


### ADJUST TRANSMITTER LEVELS

Adjusting Gain and Listening Volume:  
For the best audio quality, start by adjusting the levels from the mixer or audio source to optimize the signal-to-noise ratio.

Line (+4 dBu)	Use with mixers or other professional audio devices that send line-level signals.
Aux (-10 dBV)	Use when connecting consumer audio devices such as portable audio players or computers.

## OPERATION



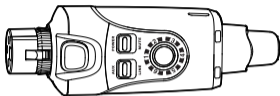
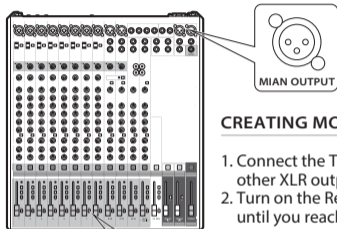
### CREATING A MONITOR MIX WITH AUX

1. Connect the Transmitter to the Aux Send on the mixer that you want to use.
2. Turn on the Receiver and gradually turn up the volume until you reach the desired level.
3. Set up your mix: adjust the levels of each channel's send to the Aux output you're connected to, and the Aux channel's master output level.

**Note:** The channel faders on most mixers do not affect the volume of the Aux sends.

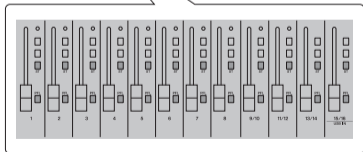


## OPERATION

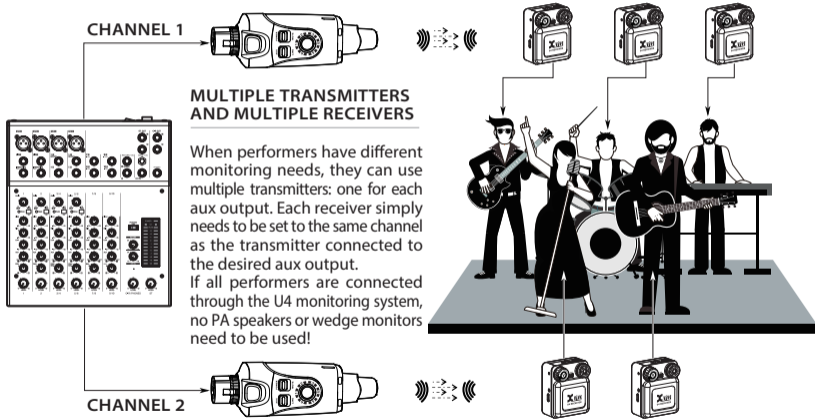


### CREATING MONITOR MIXES WITH XLR

1. Connect the Transmitter to the Mixer's main output or other XLR output.
2. Turn on the Receiver and gradually turn up the volume until you reach the desired level.
3. Set up your mix: adjust the fader levels of each channel as desired, as well as the master output level.



## OPERATION



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## 2.4 GHz WIRELESS OVERVIEW AND INTERFERENCE

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U4 operates on the 2.4 GHz ISM band, which is also used by Wi-Fi, Bluetooth, and other wireless devices. 2.4 GHz is an open band and, as such, does not require a license to be used worldwide.

### Tips and Methods to Improve Wireless System Performance

- 1) Keep more than 3 metres of distance between the U4 receiver unit and Wi-Fi transmitters, such as routers.
- 2) If you experience interference from Wi-Fi devices in the vicinity, try changing to a different channel on the U4 transmitter and receiver.
- 3) If necessary, shorten the distance between the transmitter and receiver units.

### 2.4 Ghz Frequency Tables

CHANNEL 1	2402 MHz, 2480 MHz, 2482 MHz
CHANNEL 2	2408 MHz, 2472 MHz, 2474 MHz
CHANNEL 3	2416 MHz, 2464 MHz, 2466 MHz
CHANNEL 4	2434 MHz, 2440 MHz, 2442 MHz
CHANNEL 5	2427 MHz, 2448 MHz, 2450 MHz
CHANNEL 6	2422 MHz, 2456 MHz, 2458 MHz

U2 channels 1-4 use the same frequencies as U3/U3C/U4 channels 1-4. A maximum of six U2/U3/U3C and U4 sets can be used at the same time.



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## TROUBLE SHOOTING

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ISSUE	SOLUTION
No sound	<ul style="list-style-type: none"><li>• Check that the U4 Receiver's RF LED is lit.</li><li>• Check whether the device has a signal sent to the Transmitter</li><li>• Check that the power switch is turned on for both the Transmitter and the Receiver.</li><li>• Ensure that the U4 Transmitter and Receiver are on the same channel.</li><li>• The Receiver can only be paired with one Transmitter at a time.</li></ul>
Distorted audio	<ul style="list-style-type: none"><li>• Check the Line/Aux setting on the transmitter and verify that the meter is not overloading.</li><li>• Check the levels going in and out of the mixer. Verify that no distortion occurs in each audio signal.</li></ul>
Low audio output at the receiver	<ul style="list-style-type: none"><li>• Check receiver headphone output Volume level</li><li>• Check Transmitter mode (Line/Aux).</li><li>• Check whether the device is sending sufficient signal level to the transmitter.</li></ul>
Signal instability: RF LED flickering	<ul style="list-style-type: none"><li>• See, "Tips and methods to improve wireless system performance" on page 16.</li></ul>
Unable to switch the channel	<ul style="list-style-type: none"><li>• The channel switch locks after 15 seconds. Double-click the channel button to unlock and reset.</li></ul>
Multiple connect	<ul style="list-style-type: none"><li>• Make sure the receivers are all set to the same channel as the transmitter you want them to receive audio from.</li></ul>

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## SPECIFICATIONS

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### U4 WIRELESS IN-EAR MONITOR SYSTEM

<b>Tuning bandwidth</b>	2400 – 2483.5 MHz
<b>Working range</b>	Up to 27 m / 90 feet. Actual range depends on RF signal absorption, reflection and interference.
<b>Audio frequency response</b>	20 Hz – 20 KHz (-3 dB)
<b>Dynamic range &amp; signal-to-noise ratio</b>	107 dB
<b>Battery life</b>	Up to 5 hours
<b>RF sensitivity</b>	-88 dBm
<b>Total harmonic distortion</b>	0.2%
<b>RF output power</b>	10 mW E.I.R.P. max
<b>Operating temperature range</b>	-18°C to 57°C (Battery characteristics may limit this range.)
<b>Channel count</b>	Up to 6
<b>Latency</b>	Less than 5 ms
<b>High resolution audio</b>	24-bit/48 kHz

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## SPECIFICATIONS

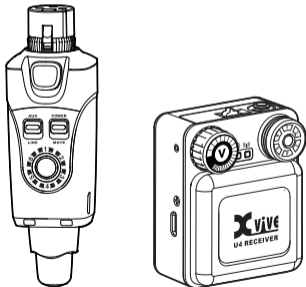
	U4 TRANSMITTER	U4 RECEIVER
Dimensions	30 X 28 X 100 mm	47 X 41 X 60 mm
Weight	90 g	118 g
Housing	Molded plastic and cast metal	Molded plastic and cast metal
Battery	3.7 V rechargeable Li-ion, 860 mAh	3.7 V rechargeable Li-ion, 1200 mAh
Impedance	Input 47 k $\Omega$ (1 KHz)	6-600 $\Omega$
Audio input connector	Balanced XLR male input	
Audio output connector		3.5 mm dual mono output
Mode	Aux mode: -10 dBV   Max. +12.2 dBu Line mode: +4 dBu   Max. +22 dBu	
Battery life	Up to 5 hours	Up to 5 hours
Antenna impedance	50 $\Omega$	50 $\Omega$
Antenna type	1/4 Wave sleeve dipole, non-removable	1/4 Wave sleeve dipole, non-removable
Number of antennas	1	2

## U4 SERIES

### U4 SET

1 Transmitter + 1 Receiver

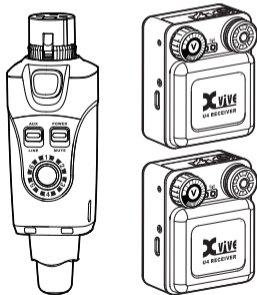
U4 standard set to create personal monitoring system



### U4R2

1 Transmitter + 2 Receiver

U4R2 set to create a monitoring system for two performers or use one receiver as backup

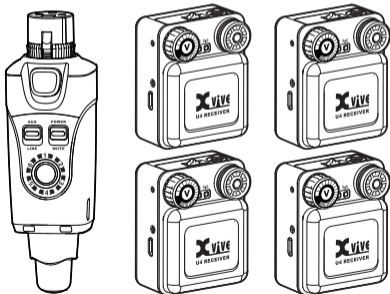


## WIRELESS IN EAR MONITOR SYSTEM

### U4R4

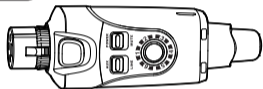
1 Transmitter + 4 Receiver

U4R4 set to create a monitoring system for four performers or a "private" rehearsal system



### U4T

1 Transmitter



Transmitter only; you need to purchase receivers separately

### U4R

1 RECEIVER

Receiver only; you need to purchase transmitter separately





**SHENZHEN FZONE TECHNOLOGY CO., LTD.**

2nd floor, Building 12, Xicheng Industrial Area, Xixiang Town,  
Baoan District, Shenzhen Guangdong China. 518101

E-mail: [support@xvive.com](mailto:support@xvive.com)

[www.xvive.com](http://www.xvive.com)

**PATENT PENDING**

Note: The manufacturer reserves the right to change these specifications without notice.