USER MANUAL
PyroSlave X4

V1.0

2024/05

Showven Technologies Co., Ltd.

Foreword

Thanks for choosing SHOWVEN PyroSlave X4, we wish it will bring you lots of exciting moments. Please read the following manual carefully before operating this product. Operate according to instructions is very important for safety, and can elongate the service life of the machine

Strictly follow the instruction in the manual when operate PyroSlave X4. If you have any doubts, please contact SHOWVEN technologies Co., Ltd by info@showven.cn

We assume the person who use or come in contact with the device are familiar with how the device, special effects or fireworks should be handled. This includes proper use, maintenance and repair of the machine as defined in this user manual.

Warning

- This product can only be operated by persons of legal age. And is only suitable for qualified operators. Operators should obtain the corresponding local professional technical certificates or qualifications before operate this system.
- Make sure all legal requirements for the performance of display fireworks, stage fireworks and special effects are met in the respective country of use.
- Make sure that the required safety distance to persons or flammable objects are maintained according to the related firing objects.
- If there are flame heads or fireworks have been connected to the salve, before we check the slave status on Fxcommander or PyroMote all personnel should be cleared from the danger area. For fireworks the safety distance is according to local laws and regulations.
- The device shall not be altered and applied to other use purpose.

Product Description

PyroSlave X4 is a fireworks igniter specially designed for stage special effects professionals to wireless control of Flamer, confetti shooter etc via Pyro signal or situation with just few fireworks. To adapt to extreme outdoor applications, PyroSlave X4 equipped with robust aluminum housing, touch keys, and metal connection terminals. PyroSlave X4 with 433M and 868M dual-band antennas communicate simultaneously, preventing signal interference on a single frequency band. Compared with wireless DMX, PyroSlave X4 wireless signals have perfect anti-interference performance in large-scale events.

Functional Characteristics

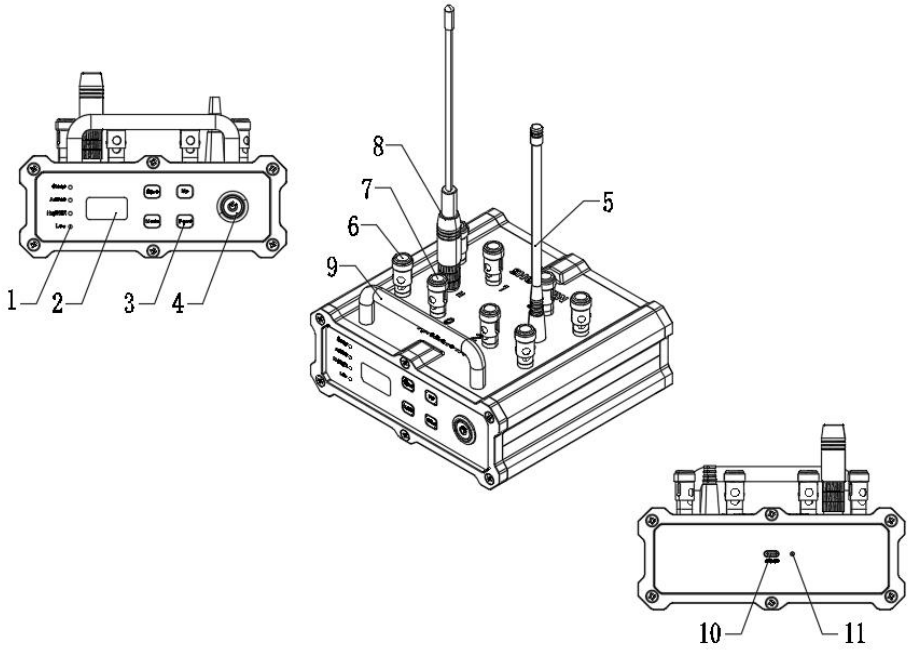
- Excellent anti-signal interference performance
- Robust aluminum housing and metal connection terminals, waterproof and dustproof
- 433M and 868M dual-band antennas communicate simultaneously, preventing signal interference on a single frequency band.
- Wireless mode with 4 wireless channels, 65536 ID. Only when the Fxcommander / PyroMote and Slave with the same wireless channel and ID they can communicate. Ensure safe firing.
- Firing precision 100 firings/s
- M10 hole convenient for truss installations

Technical Specifications

- **Model:** PyroSlave X4
- **DIMENSION:** 150×165×85mm
- **WEIGHT:** 1.3kg
- **OUTPUT:** 4

- **TRIGGER INDICATE:** LCD display and record
- **ADDRESS:**256 (00 to FF)
- **CONTROL:** Dual-band wireless
- **WIRELESS RANGE:** 600m
- **FIRING VOLTAGE:** 24V
- **FIRING CURRENT:** 5A
- **FIRING DURATION:** 500ms
- **RESISTANCE TEST:** YES
- **BATTERY:** 2 * 18650 cell, 4.2V, 2500mAh per piece
- **OPERATION TIME:** 60h, sleep mode 10 days
- **CHARGING CONTROL:** Type C
- **CHARGING TIME:** Appr. 6h
- **WATERPROOF LEVEL:** IP65
- **MINIMUM FIRING INTERVAL:** 10ms

PyroSlave X4



1: Indicator light;

2: Screen;

3: Button region;

4: Power switch;

5: Low frequency antenna;

6: Positive output clamp (RED);

7: Negative output clamp (BLACK);

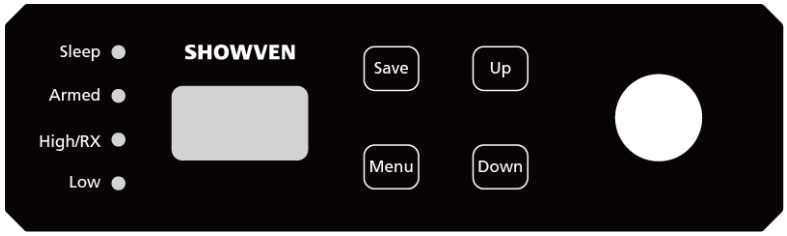
8: High frequency antenna;

9: Handle;

10: Type-C charging port;

11: Indicator light

Operation Panel



1. **LED Display Area**

   Sleep: Sleep state indicator light; blink every 3s in sleep mode, OFF in normal mode
   Armed: Ignition state indicator light; stays ON when received ignition or pre-ignition commands
   High/RX: High-frequency signal receiving indicator light. Blink once every time received high-frequency signal
   Low: Low-frequency signal receiving indicator light. Blink once every time received low-frequency signal

2. **Button Functions**

   Menu: Switch interface to setup parameter
   Up: Parameter Up
   Down: Parameter Down
   Save: Confirm and save parameters

Note: If not operated for 15s, the button will become invalid and needs to reboot machine to reactivate.

3. **Main Interface**

   First Line: Battery level
   Second Line: Wireless customer ID and wireless channel (CH1, CH2, CH3, CH4)
   Third Line: Address and Status (Active / Arm)
   Fourth Line: already activated position and alarm information

Menu Setup

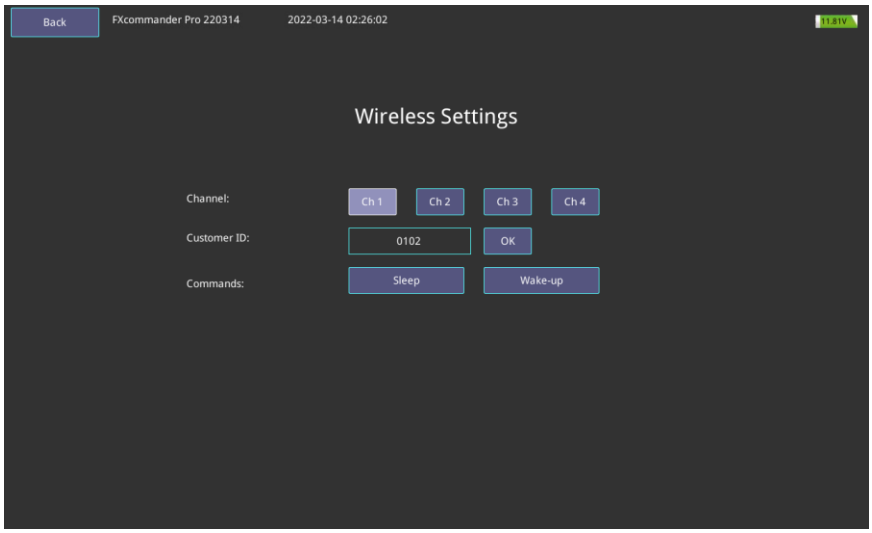
Press "MENU" to switch through setup menu

Menu	Range	Default	Explanation
TEST			Press "Save" can test the resistance value between each pair of output. The resistance value is between 0~100Ω.
Address	00~FF	00	Address setup
Wireless Channel	Ch1, Ch2, Ch3, Ch4	Ch1	For wireless communication, FXcommander Channel and Slave Channel must be the same. It can also be modified on FXcommander.
Customer ID	0000~FFFF	0102	For wireless communication, FXcommander ID and Slave ID must be the same.

Δ Operation

Wireless Operation

1. Turn OFF slave, connect igniters on slave; install both antenna for slave, turn ON slave, set "Channel", "Customer ID" for slave (all slaves which controlled by the same FXcommander, please set same Channel and ID), set different "Address" for each unit of slave.
2. Turn on Fxcommander / PyroMote enter "Setting" interface find "Wireless setting", please set the same "Channel" and "Customer ID" between FXcommander and slaves.



3. Enter "Check Slave" interface of FXcommander to check the igniter' s connection status. Switch ON "Pyro Arm".

   Region 1: Check the igniter status of the set file.

   Region 2: Check the detailed status of PyroSlave.

   Bat: 80% shows battery level.

   Two small circles in the middle shows the high frequency (the upper one) and low frequency wireless signal respectively (Green – signal good, White – no signal).

   Line between each group of black and red dot shows igniter status:

   Green: used in the cue, connected.

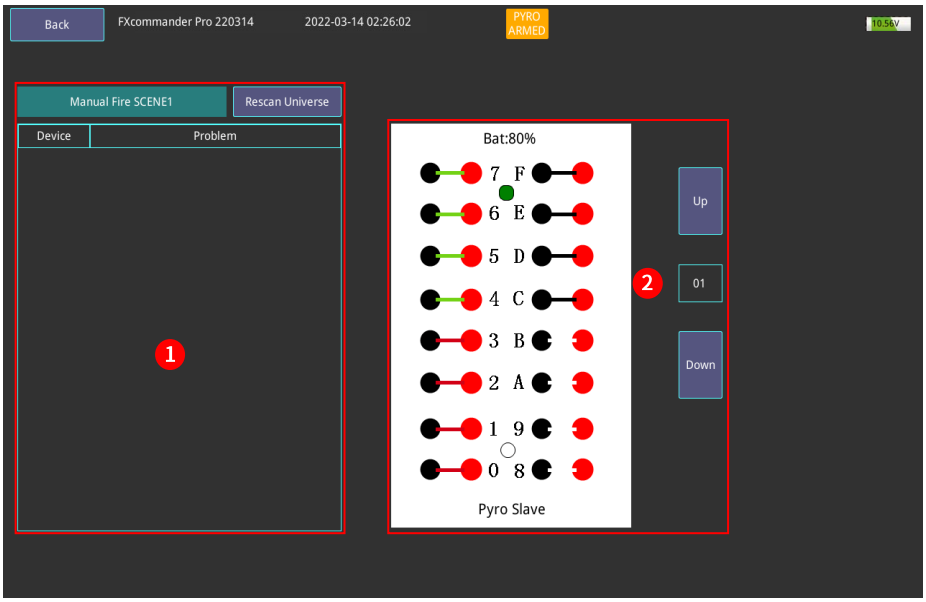
   Red: used in the cue, not connected.

   Black: not used in the cue, but connected.

   White: not used in the cue, not connected.

   "Up" and **"Down"** : switch through slaves.

   Address range for igniter is between 00~FF.



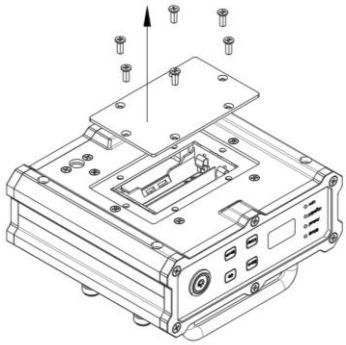
4. Switch off "Pyro Arm", back to main interface. Enter "Manual Fire" of FXcommander to edit desired effect manually, after finish programming, switch ON "Pyro Arm", when the "Armed" indicator light of PyroSlave was ON means it is ready to fire. Press and hold "Deadman" on FXcommander, and press "Fire" to firing current CUE manually. After firing, PyroSlave will display the triggered igniter position on screen.
5. PyroSlave "Sleep" and "Wake-up" setting. In order to extend the battery life, we can set the PyroSlave to "Sleep" status in "Wireless setting" interface of FXcommader remotely. Please switch back to "Wake-up" state before use the slave.

Important Notice:

1) Pay special attention to the battery level of PyroSlave when use wireless communication mode, to avoid slave power off due to low battery.
2) Two antennas named H/L is different, do ensure they are installed to the correct position.
3) It is risky not be able to query the status of the slave. Possible reasons are: Beyond the wireless coverage, wireless interference, slave is out of power, wrong setting, the antenna is installed incorrectly.
4) If the load is a valve (such as uFetti Shooter), it should be noted that the valve requires a long power-on time. When setting the ignition head, please select a single ignition head (so that the power-on time reaches 0.5 seconds), selecting multiple ignition heads to ignite at the same time is risky. (in this case, the ignition head will have a short power-on time and may not be able to open the valve).

▵ Battery Installations

Remove the battery chamber cover at the bottom of PyroSlave as shown in the picture. It requ ires 2 pcs of 18650 lithium cells.

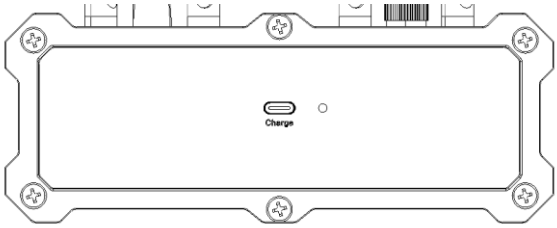


Important Notice:

1) Pay attention to the positive and negative polarity of the battery when installing the battery
2) After install the battery please press the "reset" button close to the battery compartment to activate the battery. (it can also be activated by charging)
3) Charging the battery via Type-C interface.
4) If the battery voltage fluctuates greatly during charging, it means a certain battery cell is faulty. In order to find out the faulty battery cell, please measure the voltage of each battery after charging for a long period of time, the faulty battery with voltage less than 3V.
5) To avoid damage to the lithium battery due to lack of power, please pay attention to the power of lithium battery from time to time, it is recommended to charge the slaves once per month.

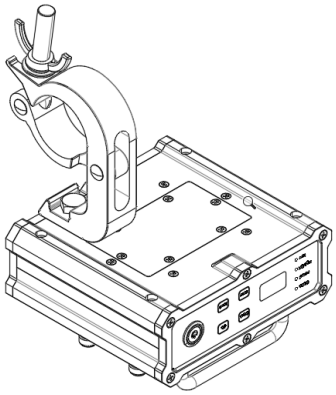
Slave Charging

Prepare a USB Type-c data cable, plug the USB interface into a 5V/2A power supply, and plug the Type-c interface into the Charge interface of the slave. The indicator light shows red when charging. Indicator light turns off after charging is completed.



Truss Installations

For truss installations, screw two clamps into the two M10 threaded holes on bottom of the machine.



Warranty Instructions

- Sincere thanks for your choosing our products, you will receive quality service from us.
- The product warranty period is one year. If there are any quality problems within 7 days after shipping out from our factory, we can exchange a brand new same model machine for you.
- We will offer free of charge maintenance service for machines which with hardware malfunction (except for the instrument damage caused by human factors) in warranty period. Please don't repair machine without factory permission.

Below situations NOT included in warranty service:

- Damage caused by improper transportation, usage, management, and maintenance, or damage caused by human factors;
- Disassemble, modify or repair products without permission;
- Damage caused by external reasons (lightning strike, power supply etc.)
- Damage caused by improper installation or use;

For product damage not included in warranty range, we can provide paid service.

Invoice is necessary when applying for maintenance service from SHOWVEN

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