

# **USER MANUAL**




Wireless foot pedal  
MODEL: AirLink

## Preface

This manual includes hardware description and operation introduction of the equipment. For your and other people's safety, please read the manual carefully.

### Pay attention

Pay attention to the words after the signs below.

Sign	Description
 <b>DANGER</b>	The words after this sign means there is great potential danger, which may cause major accident, damage or even death, if it is not followed.
 <b>WARNING</b>	The words after this sign means there is some potential danger, which may cause hurt or property lose, if it is not followed.
 <b>ATTENTION</b>	The words after this sign means there is potential risk, which may cause equipment fault or break, if it is not followed.

### Version

The contents of this manual are updated irregularly for updating of product. The manual is only used as operation guide, except for other promises. No warranties of any kind, either express or implied are made in relation to the description, information or suggestion or any other contents of the manual.

The images shown here are indicative only. If there is inconsistency between the image and the actual product, the actual product shall govern.

# Content









<b>1</b>	<b>Safety warning .....</b>	<b>1</b>
<b>2</b>	<b>Product .....</b>	<b>5</b>
	<b>2.1 Introduction .....</b>	<b>5</b>
	<b>2.2 Technical data .....</b>	<b>5</b>
<b>3</b>	<b>Installation .....</b>	<b>6</b>
<b>4</b>	<b>Operation .....</b>	<b>7</b>
	<b>4.1 panel layout .....</b>	<b>7</b>
<b>5</b>	<b>INSTRUCTION NOTES .....</b>	<b>8</b>
	<b>5.1 Operation environment .....</b>	<b>8</b>
	<b>5.2 SAFTY .....</b>	<b>8</b>
<b>6</b>	<b>MAINTENANCE AND CHECK TROUBLE .....</b>	<b>9</b>
	<b>6.1 Maintenance .....</b>	<b>9</b>
	<b>6.2 Check Fault .....</b>	<b>9</b>

# 1 Safety warning

The safety notes listed in this manual is to ensure correct use of the machine and to keep you and other people from being hurt.

The design and manufacture of welding machine considers safety. Please refer to the safety warning listed in the manual to avoid accidents.

Different damage would be caused by wrong operation of the equipment as follows. Please read the user manual carefully to reduce such damage.

Sign	Description
	✧ Any contact of electric parts may cause fatal electric shock or burnt.
	✧ Gas and fumes are harmful to health. ✧ Operation in narrow space may cause choke .
	✧ Spark and hot workpiece after welding may cause fire. ✧ Bad connected cable may cause fire. ✧ Incompletion connection of workpiece side circuit may cause fire. ✧ Never weld on the case of tinder stuff, or it may cause explode. ✧ Never weld airtight containers such as slot, pipe etc., or it may break.
	✧ Arc ray may cause eye inflammation or skin burnt. ✧ Spark and residue will burn your eyes and skin.
	✧ Toppling over of the gas cylinder will cause body hurt. ✧ Wrong use of the gas cylinder will lead to high-pressure gas eruption and cause human hurt.
	✧ Never let fingers, hair, clothes or etc. near the moving parts such as the fan.
	✧ The wire shoot out of the torch may stab eyes, face and other naked parts.
	✧ Never stand in front of the swang equipment or under it, or it may fail and cause injury.

**DANGER**

**Please follow the rules below to avoid heavy accidents.**

- Never use the equipment to do other things but welding.
- Follow related regulations for the construction of the input-driven power source, choice of place, usage of high-pressure gas, storage, configuration, safe-keeping of workpiece after welding and disposal of waste, etc.
- Nonessentials do not enter the welding area.
- People using heart pacemaker is not allowed to get close to the welding machine or area without doctor's permission. The magnetism created by energizing the welding machine can have a bad effect to the pacemaker.
- Install, operation, check and maintain the equipment by profession personnel.
- Understanding the contents of the user manual for safety.

**DANGER**

**Please follow the rules below to avoid electric shock.**

- Keep away from any electric parts.
- Earth the machine and workpiece by professional personnel.
- Cut off the power before installation or checking, and restart 5 minutes later. The capacitance is chargeable device. Please ensure it has no voltage before start again even if the power source is cut off.
- Do not use wire with inadequate section surface or damage insulation sleeve or even exposed conductor.
- Do ensure well isolation of wire connection.
- Never use the device when the enclosure is removed.
- Never use broken or wet insulation gloves.
- Use firenet when work at high position.
- Check and maintain regularly, don't use it until the broken parts are fixed well.
- Turn off the power when not in used.
- Follow the national or local related standard and regulations when using the AC welding machine at narrow or high position.

**DANGER**

**Please follow the below notes to avoid fire and explode, etc.**

- No combustible in welding area.
- Keep off combustible when welding.
- Keep hot workpiece after welding away from flammable gas.
- Do move away the combustible around when weld the dooryard, ground and wall,.
- The wire connection of base metal should be as close to the welding place as possible.
- Never weld those facilities with gas pipe or airtight slot.
- Put fire extinguisher around the welding area to prevent fire.

**WARNING**

**The gas and fumes are harmful to health, please wear protective device according to regulations.**

- Wear exhaust equipment and breathe preventive facilities to prevent gas poisoning or choke.
- Use suggested part exhaust equipment and breathe preventive facilities to prevent hurt or poisoning by gas and other powder, please.
- To prevent oxygen-deficiency, air out the gas-filled room which is full of CO<sub>2</sub> and argon on the bottom, When operating on trunks, boilers, cabins, etc.
- Please accept the supervisor's inspection when operating in narrow space. Air the room and wear breathe preventive facilities.

- Never operate in degrease, washing or spray space.
- Using breathe preventive facilities when weld shielded steel for it will cause poisonous dust and gas.



**WARNING** The arc, spark, residue and noise are harmful to health, please wear protective appliance.

- Eye protection against arc is recommended when welding or supervise welding.
- Please wear preventive spectacles.
- Welder's gloves, welder's goggles, long sleeve clothes, leather apron, and other standard protection equipments must be worn for welding operation.
- A screen to protect other people against the arc must be set in the welding place.



**WARNING** Please follow the notes below to avoid gas cylinder toppling over or broken.

- Use the gas cylinder correctly.
- Use the equipped or recommended gaseous regulator.
- Read the manual of gaseous regulator carefully before using it, and pay attention to the safety notes.
- Fix the gas cylinder with appropriate holder and other relative parts.
- Never put the cylinder under high temperature or sunshine environment.
- Keep your face away from the gas cylinder exit when opening it.
- Put on the gas shield when it is not used.
- Never put the torch on the gas cylinder. The electrode can not meet the gas cylinder.



**WARNING** Any touch of the switch part will cause injury, please note the following.

- Never use the machine when the enclosure is off.
- Install, operate, check and maintain the machine by professional person.
- Keep your fingers, hair, clothes etc. away from the switch parts such as the fan.



**WARNING** The wire end may deal damage, please note the following.

- Never look into the electric conduction hole when checking the wire feeding is normal or not, , or the shooting wire may stab your eyes and face.
- Keep your eyes, face or other naked parts away from the end of torch when feeding the wire manually or pressing the switch.



**ATTENTION** For better work efficiency and power source maintenance, please note the following.

- Precautions against toppling over.
- Never use the welding equipment for pipe thawing.
- Lift the power source from side when use the up-down forklift truck to avoid toppling over.
- When using the crane for lift, tie the rope to the ears with an angle no more than  $\phi 15$  to the vertical direction.
- When lifting the welding machine which equipped with gas cylinder and wire feeder, download them from the power source and ensure the horizontal of the machine. Do fix the gas cylinder with belt or chain when moving it to avoid body hurt.

- Ensure fastness and insulation when lifting the wire feeder through the swing ring for welding.



**ATTENTION Electromagnetic interference needing attention.**

- It may need extra preventive measures when the equipment is used in particular location.
- Before the installation, please estimate the potential electromagnetism problems of the environment as follows.
  - a) Upper and lower parts of the welding equipments and other nearby power cable, control cable, signal cable and phone cable.
  - b) Wireless electric as well as TV radiation and reception equipment.
  - c) Computer and other control equipments.
  - d) Safety-recognition equipment etc. Such as supervise of industrial equipments.
  - e) Health of people around. Such as personnel using the heart pacemaker or audiphone.
  - f) Equipments for adjustment and measurement.
  - g) Anti-disturb capability of other used equipments .Users should ensure these equipments and the environment are compatible, which may need extra preventive measures.
  - h) Practical state of the welding and other activities.
- Users should observe the following dos and don'ts to decrease radiation interference.
  - a) Connect the welding equipments to the power supply lines.
  - b) Maintain the welding equipments regularly.
  - c) The cable should be short enough to be close to each other and the ground.
  - d) Ensure the safety of all the welding metal parts and other parts nearby.
  - e) The workpiece should be well earth.
  - f) Shield or protect the other cable and equipments to decrease the effects of disturbances. The welding equipments can be complete shielded in some special conditions.
- Users are responsible for interference due to welding.

## 2 Product

### 2.1 Introduction

Congratulations for your purchase.

The product uses a low-power chip, the transmission distance is more than 20ft, and the operating frequency is 433Mhz.

This product has the advantages of stable transmission, strong anti-interference performance, and will not affect other communication equipment.

Thanks for purchasing our company product and hope for your precious advice. We will dedicate to produce the best products and offer the best service.

### 2.2 Technical data

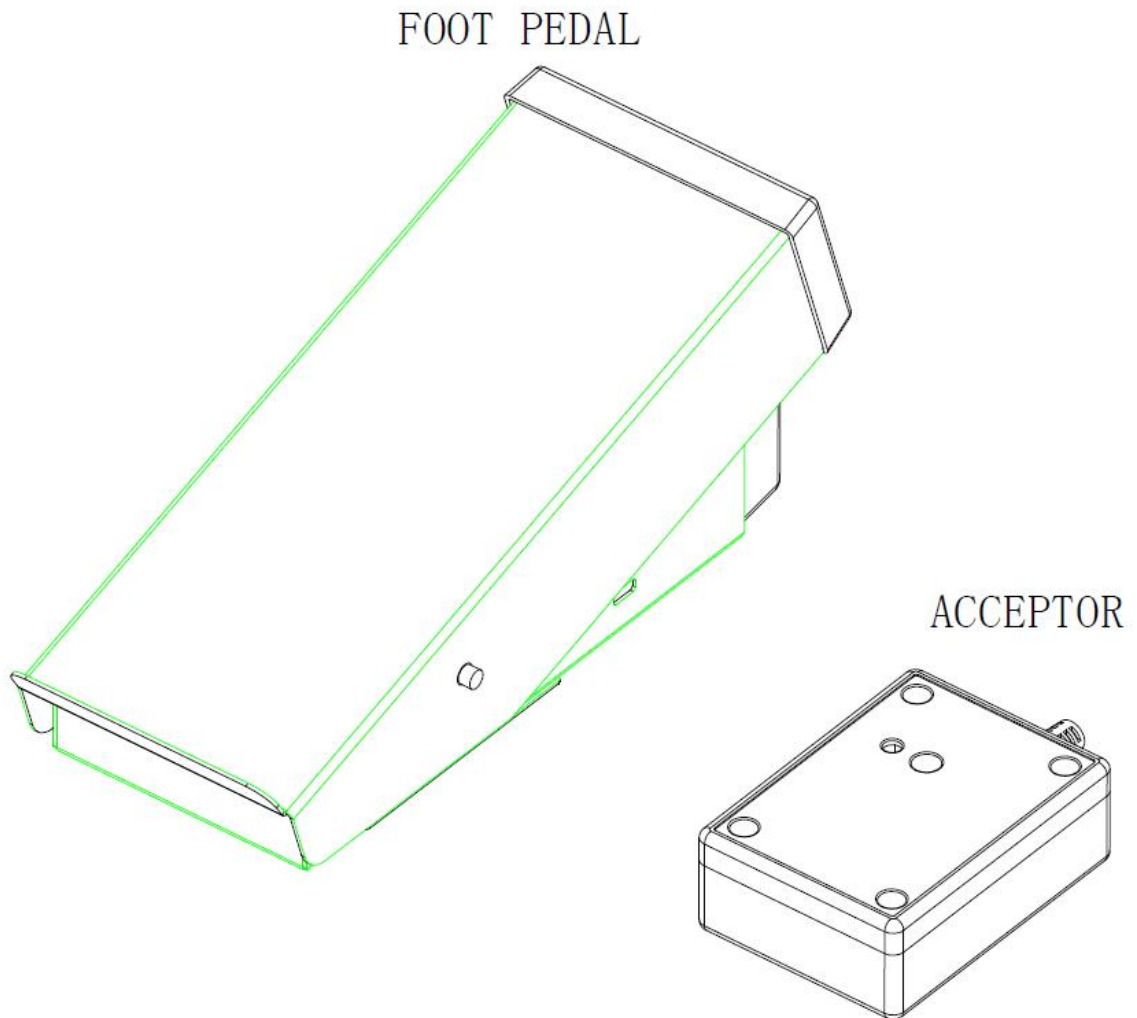
model parameters	AirLink	
	FOOT PEDAL	ACCEPTOR
Power voltage	3.7V	12V
Frequency	432.97MHz	432.97MHz
Transmit Power	\	\
Housing protection grade	IP21S	
weight (kg)	1.92	
Dimensions (mm)	272x117x107	105x77x40



### 3 Installation

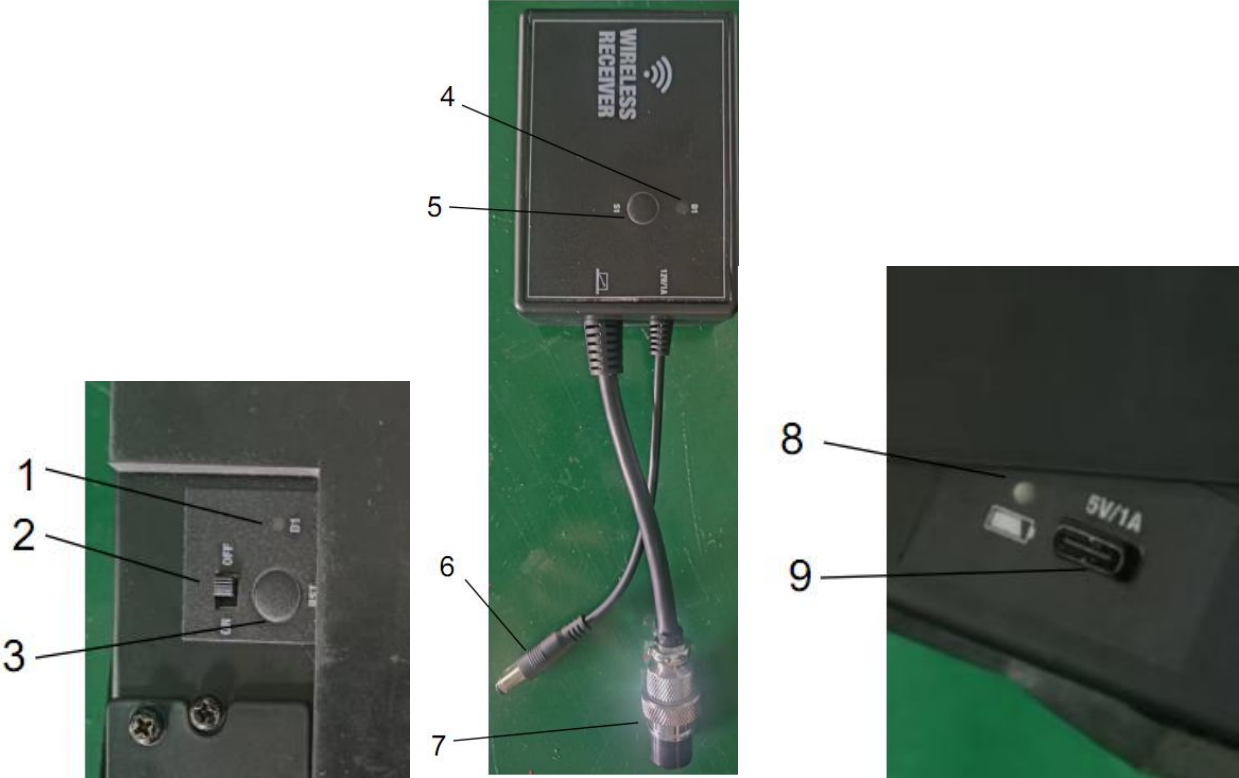
The power supply of the foot switch is 3.7V battery, the power supply of the receiver is 12V, and the signal has been paired when the factory is ready, and the power switch on the foot switch can be used.

- **Installation diagram**



4    Operation

4.1 Panel Layout



1	Signal indicator light	6	12V power supply port
2	Power switch	7	Output interface
3	Reset button	8	Charge lamp
4	Signal indicator light	9	Charging port
5	Reset button		

## 5 INSTRUCTION NOTES

### 5.1 Operation environment

- 1) Welding operation should be carried out in a relatively dry environment with air humidity usually less than 90%.
- 2) Ambient temperature should be kept between -10°C ~40°C.
- 3) Welding in the sun or rain should be avoided and water or rainwater should never be seeped into the welder interior.
- 4) Welding in the dusty area or under a corrosive gas environment should be avoided.
- 5) Gas protection welding operation in an environment with strong air flow should be avoided.

### 5.2 SAFTY

In this welder over-voltage, over-current and overheat protection circuits have been installed beforehand. When the grid voltage, output current and machine temperature surpass the set standards, the machine will stop automatically. But excessive use (for example, when the voltage is too high) can still lead to the breakdown of the welder. So you have to pay attention to the following items:

#### 1) **Good ventilation !**

This machine is a small type welder. In operation a high working current flows in and natural ventilation is unable to meet the welder's requirement for cooling. So a fan is fitted to effectively cool the welder to keep it work smoothly.

Operators should make sure that the vent is not covered or plugged, the distance of the welder from its surrounding objects is not less than 0.3 m and good ventilation is kept all the time. All these are very important for better operation of the welder and longer service life of the welder.

#### 2) **No overload !**

Operators should bear in mind that maximum permissible load current (relative to the selected load duration factor) be observed at any time and welding current should never surpass the maximum permissible load current.

Over-current will shorten the service life of the welder remarkably and even burn it down.

#### 3) **No over-voltage !**

Power voltage is shown in the main performance parameter table. In general, the voltage auto-compensation circuit in the welder will ensure the welding current remain within the permissible range. If power voltage surpasses the permissible value, the welder will be broken down. Operators should fully know this and adopt corresponding preventive measures.

## **6 MAINTENANCE AND CHECK TROUBLE**

### **6.1 Maintenance**

- 1 Dust should be removed with dry and clean compressed air regularly. If the welder is used in a heavily polluted environment with dense smoke and polluted air, dust must be removed from the welder each month.
- 2 The pressure of compressed air should be reasonable so that damage is not done to small elements in the welder.
- 3 Regularly check the connection of electric circuit in the welder and make sure circuit be connected properly and joint is secured (especially inserted joint or element). If the cases of rusting or loosening are found, the rust layer or oxidized film should be removed with abrasive paper and then the joint should be connected again and tightened firmly.
- 4 Entry of water or steam into the interior of the welder should be avoided. If this condition occurs, the welder should undergo drying treatment. Then the welder is measured for insulation by a megohm-meter (including the area between connecting points and the areas between the connecting points and shell). Welding can go on only when evidence shows no abnormality.
- 5 If the welder is not to be used for a long time, it should be replaced in the original package and kept in a dry environment.

## FCC Warning

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.

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

**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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.