# SMR Series Monitoring Receiver Module

# Quick Start Manual

**Saluki Technology Inc.**

# Content

# Security requirements

## General safety summary

Understand the following safety precautions to avoid injury and prevent damage to this product or any product connected to this product. To avoid possible hazards, be sure to use this product as specified.

- **Use the correct power cord**

Only use the power cord approved for this product in your country.

- **Make sure the product is well grounded**

This product is grounded through the protective ground wire of the power supply. In order to prevent clicking, the ground wire must be well grounded to the earth; before connecting to any input and output terminals of this product, be sure to properly ground the device.

- **Powered by the correct power adapter**

Use the AC/DC power adapter provided by our company to power the product. The use of other types of AC/DC power adapter is not allowed, otherwise the user will be responsible for all consequences arising therefrom.

- **Use the correct power supply**

Different countries or regions have different power supply standards. Please check whether the power supply required by this product is consistent with the local power supply standard, otherwise the device will be burned out.

- **Correct use of power fuses**

Only use fuses with specifications specified for this product.

- **View all terminal ratings**

To avoid fire and excessive current shock, please check all ratings and markings on the product. Please consult the product manual for detailed rating information before connecting the product.

- **Use appropriate overvoltage protection**

Make sure that no high voltage (such as that caused by lightning) is applied to the product, otherwise the operator may be at risk of electric shock.

- **Do not open the cover for operation**

Do not operate this product with the metal case of the instrument open or with the fixing screws loose.

- **Do not operate the product if you suspect it is malfunctioning**

If you suspect that this product is malfunctioning, please contact Saluki authorized maintenance personnel for testing. Any maintenance, adjustment or parts replacement must be performed by service personnel authorized by Egret Electronics. If the machine is disassembled without authorization, the warranty will be voided during the warranty period.

- **Maintain good ventilation**

In an environment with poor ventilation conditions, the internal temperature of the instrument will rise, which may cause damage to the instrument. Maintain good ventilation conditions during use, and regularly check and clean ventilation channels.

- **Do not operate in humid environment**

To avoid short circuiting the internal circuit of the instrument or the risk of electric shock, do not operate the instrument in a humid environment.

- **Do not operate in flammable and explosive environments**

To avoid instrument damage or personal injury, do not operate the instrument in flammable and explosive environments.

- **Please keep the product surface clean and dry**

To prevent dust or moisture in the air from affecting receiver performance, please keep the product surface clean and dry.

- **Anti-static protection**

Static electricity can cause damage to the instrument, so testing should be conducted in an anti-static area as much as possible. Before connecting the cable to the instrument, briefly ground its inner and outer conductors to discharge static electricity.

- **Pay attention to transportation safety**

To prevent the instrument from slipping during transportation and causing damage to interfaces and other components, please pay attention to transportation safety.

# Daily maintenance and cleaning

- **General maintenance**

Do not leave the instrument in a place exposed to sunlight for a long time. If it is not used for a long time, please store it in a cool, dry place.

- **Be careful**

Do not allow any corrosive liquid to stick to the instrument to avoid damage to the instrument.

- **Clean**

Please clean the instrument frequently according to usage. Methods as below:

· Disconnect the power supply and turn off the instrument.
· Use a damp but non-drip soft cloth (you can use mild detergent or clean water) to wipe the dust on the outside of the instrument.
· Neutral computer cleaning paste can also be used to wipe dust from the outside of the instrument.
· Use a soft cloth or absorbent cotton dipped in absolute alcohol to wipe the outside of the instrument, ports, connectors, etc.

**WARNING**

**Before re-powering on, please make sure the instrument is completely dry to avoid short circuiting the instrument or even personal injury due to moisture.**

## Safety terms and symbols

Terminology used in this manual. The following terms may appear in this manual:

**WARNING**

The statement identifies conditions and actions that may endanger the lives of operators.

**CAUTION**

The statement identifies conditions and actions that could cause damage to the product or loss of data.

terminology on the product. The following terms may appear on the product:

1DANGER means that there may be immediate danger to you if you perform this operation.

2WARNING Indicates potential hazards to you if you perform this operation.

3CAUTION means that if you perform this operation, you may cause damage to this product or other devices connected to this product.

Symbols on the product. The following symbols may appear on the product:

Warning high voltage

Protective terminal

Be careful

Switch

Measurement ground terminal

# Working environment

## Temperature

- Ambient temperature during operation：0℃～+50℃
- Storage ambient temperature：-10℃～+50℃

## Relative humidity

- When ≥+10℃, humidity ≤95%RH
- When ≥+30℃, humidity ≤75%RH
- When ≥+40℃, humidity ≤45%RH

## Altitude

- 0～4600 meters

Note: The above three working environment requirements are only for the instrument operating environment and are not technical indicators.

## Ventilation and heat dissipation requirements

In order to ensure that the working environment temperature of the instrument is within the temperature range required by the working environment, the heat dissipation space requirements of the instrument should be met:

- The heat dissipation distance at the rear of the instrument is ≥150mm
- The heat dissipation distance between the left and right sides of the instrument is ≥100mm

## Static electricity requirements

Please correctly apply the following anti-static measures to reduce electrostatic damage:

- Ensure that all instruments are properly grounded.
- Before connecting the coaxial cable to the instrument, contact the inner and outer conductors of the cable with the ground for discharge.
- Operators must wear anti-static bracelets or take other anti-static measures before touching connectors, wires, or assembly operations.

## Confirm power supply

Mainland China must meet:

- Voltage：AC220±10%
- Frequency：50～60Hz

## Prevent mutual interference via power supply

To prevent multiple devices, especially instruments and high-power equipment from being connected to the same power grid, the pulse interference generated by high-power equipment will cause the instrument to work abnormally or even be damaged. It is recommended to use an AC regulated power supply to power the instrument.

## Confirm power cord

The instrument uses a three-core power cord interface, which complies with national standards. You must confirm that the power protective ground wire is reliably connected to the earth. Floating ground or poor grounding may cause damage to the instrument. It is strictly prohibited to use power cord without protective ground. Before turning on the power, make sure the power cable is in good condition and complete. Use the power cord to connect the instrument power plug and a well-grounded three-core power socket.

# 1 Quick start

This chapter introduces the front panel, rear panel, side panel and host computer user interface of the monitoring receiver module, precautions when using it for the first time, and demonstrates its use through a measurement example.

## 1.1 Appearance interface description

### 1.1.1 Front panel

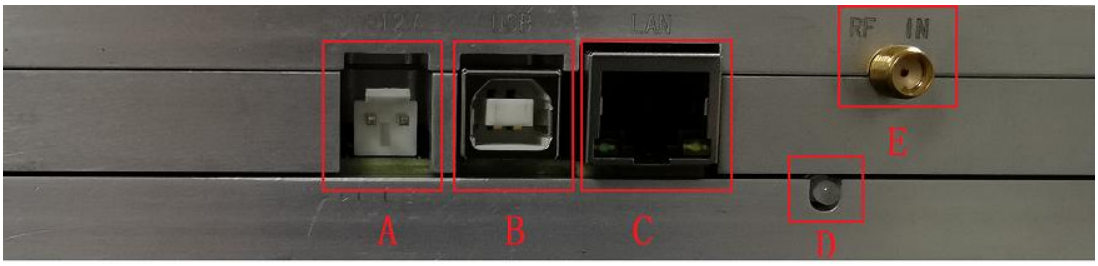


Figure 1-1 Front panel view

Table 1-1 Front panel description

| No. | Function | Description |
|---|---|---|
| A | Power interface | ①12V power supply connector<br>②If necessary, the adapter interface can be |
| B | USB interface | USB interface for communication |
| C | Network Interface | RJ45 network interface for communication |
| D | System indicator light | Indicators showing system status |
| E | RF input interface | For RF signal input interface |

### 1.1.2 Left panel

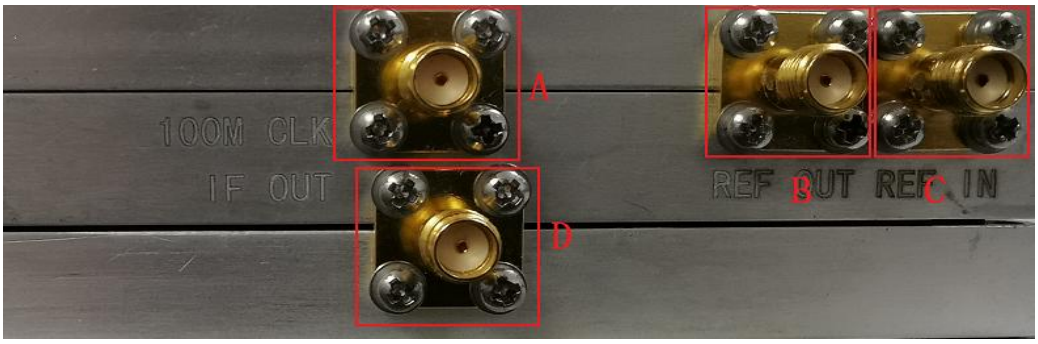


Figure 1-2 Left panel view

Table 1-2 Left panel description

| No. | Function | Description |
|---|---|---|
| A | 100M clock output | RF 100M clock output interface |
| B | 10M reference clock output | RF 10M clock output interface |
| C | 10M reference clock input | RF 10M clock input interface |
| D | 145M clock output | IF 145M clock output interface |

### 1.1.3 Back panel

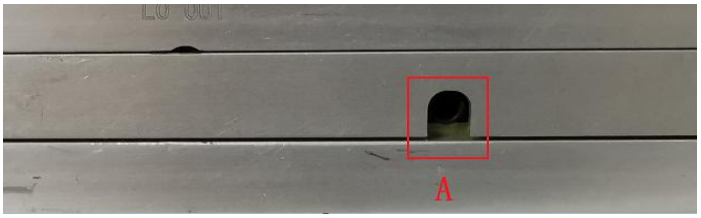


Figure 1-3 Back panel view

Table 1-3 Back panel description

| No. | Function | Description |
|---|---|---|
| 1 | Headphone jack | Headphone jack for audio output |

### 1.1.4 Right panel


Figure 1-4 Right panel view

Table 1-4 Right panel description

| No. | Function | Description |
|---|---|---|
| A | Serial communication interface | Used for serial communication |
| B | Trigger interface | External trigger input interface |

## 1.2 Preparation before use

### 1.2.1 General inspection

When you get a new monitoring receiver, please follow the steps below to check it.

1) **Check whether there is any damage caused by transportation and whether the accessories are complete**

Please keep the damaged shipping packaging or shock-proof materials until the goods have been completely inspected and the module has passed the electrical performance and mechanical tests. Standard accessories can be checked according to the "packing list" in the box to see if they are missing.

2) **Check the whole machine**

If there is any mechanical damage or missing, or the module fails the electrical performance and mechanical tests, please contact our company.

**3) Connect power**

The monitoring receiver module is powered by an AC/DC adapter power supply or a regulated DC power supply.

### 1.2.2 Connect adapter power

Please use the power cord and adapter provided in the accessory to connect to the monitoring receiver module.

### 1.2.3 Power on

Use the matching power adapter to connect to the 12V power supply interface of the module and power it on. After the startup is completed, the system status indicator light changes from red to green. At this time, the PC host computer can be connected normally.

# Appendix:

## Warranty Statement:

Saluki promises that its main units, accessories and optional accessories will be free of any material and workmanship defects during the product warranty period. During the warranty period, if the product proves to be defective, Saluki will repair or replace it free of charge for the user. The standard product warranty period is one year. For detailed warranty instructions, please refer to the Saluki Electronic Product Warranty-Card.

Except for the guarantees provided in this summary or other applicable warranty cards, Saluki does not provide any other express or implied guarantees, including but not limited to any implied guarantees of product tradability and suitability for special purposes. In no event shall saluki be liable for indirect, special or consequential losses.