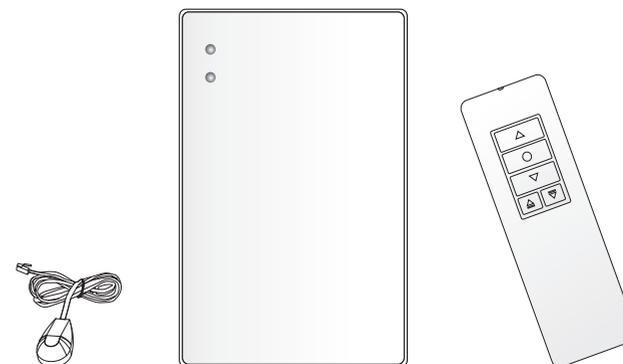




Infrared Remote Controller Operation Instruction



Model: 1GD-IRAnIII

Thank you for choosing the WS screens remote control.
Please read the instructions carefully before using. Keep instructions for future reference.

WS-Spalluto GmbH

Nassenackerstr. 6
76476 Bischweier Germany
Tel: 07222-9190-0
Fax: 07222-9190-99



Contents

Contents	1
Safety Information	2
Working Principle	2
Installation Guide	3-4
Controller Instruction	5
Trouble Shooting	6

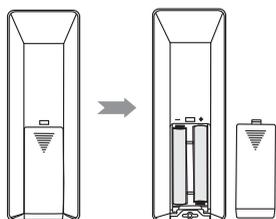
Diagnosis and treatment for malfunction

If the remote control can't work properly, please check it according to the following steps. While if you can't find the same symptoms and right way to solve the problems please contact with our local distributor or our after-sales team.

Symptom	Cause	Measure
The instruction LED light on the receiver doesn't work	<ol style="list-style-type: none">1. Check power.2. The improper cable connection.3. Disconnected for fuse in receiver.	<ol style="list-style-type: none">1. Make sure connect the power properly.2. Connect the cable in right way according to Wire circuit diagram.3. Replace with new fuse.
The instruction light is working but when you press the button on remote controller the light doesn't twinkle.	<ol style="list-style-type: none">1. Batteries in remote controller run out or wrong direction of fixing the cathode and anode for batteries.2. Incorrect cable connection of the receiver;3. Inappropriate angle or distance of the remote controller.4. There is obstacles between emitter and receiver.5. The header don't plug with the receiver tightly.6. The receiver gets broken.	<ol style="list-style-type: none">1. Change the direction of batteries according to the figure in set up for controller batteries first, but if the malfunction still exists then replace them with new batteries.2. Pls refer to cable diagram.3. IR emitter only can work within 8 meters and 30 degrees in front of the receiver.4. Pls clean the obstacles between emitter and header.5. pls plug the header with the receiver tightly.6. Contact with Grandview after-sales team or contact with the local dealer.

Set up for controller's batteries

Please change the batteries according to the following steps when the signal of remote control becomes weak.



Model of the batteries: AAA1.5x2

1. Counter turn the remote controller and open the battery cover according to the direction of arrow
2. Fix in the batteries according to the figure on the left side.
3. Close the battery cover.

CAUTION

Warning: Please do not expose the product in moist place to prevent from potential danger of fire or electric shock

1. Please read this instruction carefully before using to prevent from potential damage to the product cause by inappropriate operation
2. Please put the product in ventilated place and operate according to instruction
3. Please move away from heat source such as heating machine, stove and other equipment that generate heat
4. Please only connect to the power source with earth wire
5. Never step on or clamp the power line
6. Please only use the accessories provided by supplier
7. Please unplug the power line during thunderstorm or long time lay aside
8. Please handover the maintenance work to professional after-sales staff
9. Please keep the product away from water and do not put anything with water on the product such as vase
10. As long as the power line is connected to the power source, the product is still connected to the alternating current power supply

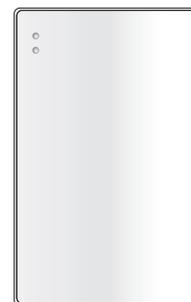
Features of the Receiver

Model: 1 GD-IRAnIII Receiver

The receiver is the controller between power source and the electric screen, to control the fabric to go up, down or stop.

The receiver can control the screen with three methods mentioned below:

1. Using the IR emitter to control the fabric to go up, down or stop. The receiver could only work with the IR emitter that provided by our company and the effective working area is within $\pm 30^\circ$ in front of the receiver
2. Using the button on the box to control the fabric to go up, down or stop.
3. Can be connected to an external dry contact switch to control the fabric to go up, down or stop



1GD-IRAnIII

Technical features of the receiver: Reliable, Energy Conserved and Environmental Friendly

- > Using STM paster with damp proof processing
- > Automatically shut off power if there are no operation in one minute
- > Using a certified connector to ensure the safety
- > One receiver can receive maximum 20 sets of codes from emitter which means user could control the receiver with maximum 20 pieces of emitter
- > One receiver can be only connected to one pieces of electric screen

Parameters of the receiver:

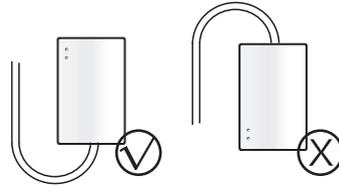
- > Power source: AC230V/50Hz, 120V/60Hz The actual figure should refer to the parameter sticker on the box
- > Working Temperature: -20°C to $+80^\circ\text{C}$
- > Maximum Output electric current: 3A
- > Wavelength: 940nm

Installation of the Receiver

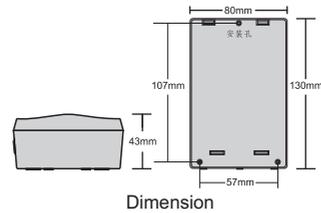
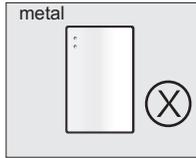
Please read the below instruction before installing the receiver

Attention:

- > When installing the receiver, please make sure the cable exit face down to prevent from potential infiltration water



- > Please keep away from large size metal objects when installing the receiver in case the frequency is affected

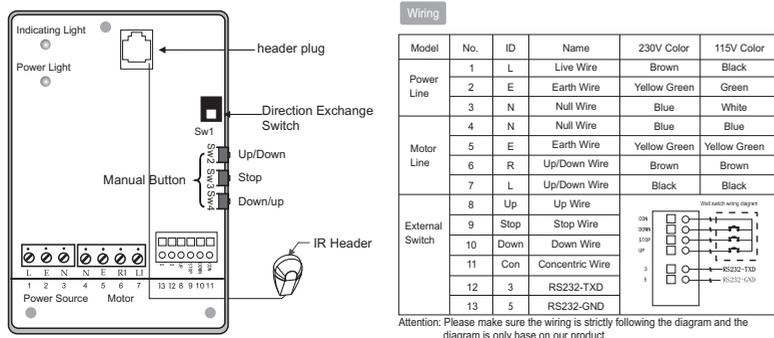


- > Please make sure the distance between two receiver should be at least 20 cm

Wiring Instruction

The below diagram showcase the wire connection, please following the below instruction during installation

- > The power must be cut before wiring
- > Please prevent from static electricity as it may damage to some electronic parts
- > Please use cables that match the local safety standard
- > The earth wire must be connected
- > When connecting the control box externally, please make sure the loop resistance is less than 20Ω.
If the cable lies nearby the strong current, please try to use shielded wire. The qualified UTP cable is recommend for total cable length within 100 meter as the resistance is around 9.2Ω.



If you found the screen rolling in a contrary direction(when you press the up button the screen goes downwards, when you press the down button,the screen goes upwards),you only needs to open the receiver and change the cables for R1 and L1.

RS485/RS232 Configuration

Central Control Protocol

1. Communication Protocol:

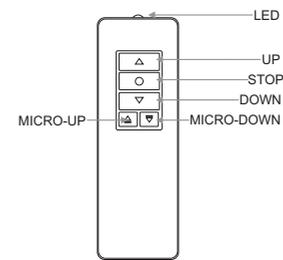
DATA BITS: 8 Digits	INITIAL DIGITS: Digit 1	STOP DIGITS: Digit 1	BAUD RATE: 2400
---------------------	-------------------------	----------------------	-----------------

- UP: 0xFF 0xEE 0xEE 0xEE 0xDD
- STOP: 0xFF 0xEE 0xEE 0xEE 0xCC
- DOWN: 0xFF 0xEE 0xEE 0xEE 0xEE
- MICRO-UP: 0xFF 0xEE 0xEE 0xEE 0xC9
- MICRO-DOWN: 0xFF 0xEE 0xEE 0xEE 0xE9
- Initial Code: 0xFF 0xFF 0xFF 0xFF 0xAA

FUNCTION :

Model:1GD-IRAn

The Remote control is compatible with the receiver,transfer signal by IR(Wavelength: 940Nm)



Model: 1GD-IRAn

Operating Instruction for Using Remote:

- Press ▲ to lift the screen.
- Press ○ to stop the screen
- Press ▼ to lower the screen.
- The Micro switch is used for retracting or lowering screen in small increments.

Manual control of Direction Exchange Switch for Motor(SW1) Manual Instruction:

When controlling the screen by manual control, if you found the screen rolling in a contrary direction and confirm operate the remote in a right way (that means when you press the up button the screen goes downwards,when you press the down button, the screen goes upwards). Please just turn turn the (SW1) switch which is inside of the Receiver, the screen will properly working again.

Cautions for Remote Control:

- The minimum distance between IR emitter and receiver is 50cm.
- IR emitter only can work within 8 meters in front of receiver.
- Obstacles are forbidden in front of LED light.
- Emitter are not allowed to use in the wet and high-temperated condition.
- New batteries need to be replaced when the signal gets weak.
- in order to avoid leakage,please take out of the battery when storing it for a long time without use.
- Model of the batteries: AAA 1.5X2.
- One minute after the end of each accepted instructions it automatically closes the output power, but is still on standby, if not used for a long time, cut power off or unplug the power plug from the outlet.
- When using the emitter, receiver issued a minor "click"sound, this is the sound when relay works.