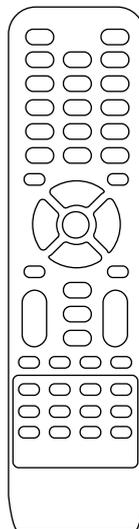




# User Manual

# RF/IR

## 38-Button Remote Controller



Scan the QR code or enter following URL to get the latest version:  
<https://docs.mobatime.cloud/RF-IR>



# Regulations and Certification

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The device fulfils the requirements of the following standards:

**Electrical safety :** EN 60950-1:2006/Cor.:2011-10  
**EMC :** EN 55022:2010/AC:2011-10, class B; EN 55024:2010/A1:2015; EN 50121-4:2006/Cor.:2008-05

This product was developed and produced with the following EU directives:

**EMC :** Electromagnetic compatibility directive **2014/30/EU**  
**LVD :** Low voltage directive **2014/35/EU**  
**RoHS II :** Restriction of the use of certain hazardous substances directive **2011/65/EU**  
**WEEE :** Waste electrical and electronic equipment directive **2002/96/EC**

See Conformity for the declaration of conformity of this specific product. This product may offer a CB test certificate on request.



## Important Notes

1. Please read and follow the safety information in this document before operating the product. We cannot guarantee that no accidents or damage will occur to improper use of this product. Please use this product with care and operate at your own risk.
2. We are not liable for any direct or indirect damage caused by the use of this document or the said product.
3. This product must be connected and installed by qualified electrician who is familiar with the relevant regulations (e.g. VDE).
4. The information in this document is subject to change without notice. The latest version of this document is available for download at <https://docs.mobatime.cloud/RF-IR/user-manual/pdf>.
5. This User Manual has been composed with the utmost care to explain all the details to ensure a safe and stable operation of this product. Nevertheless, if question arise or error appear, feel free to contact support.
6. Images shown are for illustrative purposes and may differ from the final product.
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# 1 Safety

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Read the safety instructions carefully and follow all the instructions. This ensures safe and reliable operation of this device.

## 1.1. Instructions and Symbols

Symbols used throughout this document and their meaning are as follows:



A note or important information.



Answer to a possible question. Contact information.



Keep away from children and people with limited physical, sensory, or mental capacities.



Action needs to be taken.



Connect device to earth ground.



More information included in the manual.



Disconnect mains power before doing anything.



An example or a hint.



Additional references or information.



Attention of electrical shocks.



Surface may be hot.



Item is flammable.



A warning, be cautious.



Recyclable materials.



Do not put in trash.

## 1.2. General



For safety and licensing reasons, unauthorized modifications and/or changes to the product is prohibited. Maintenance, adjustments or repairs may only be carried out by the factory (copyright holder).



This product is not a toy; it does not belong in the hands of children. Mount or place the product so that it cannot be reached by children. Children may try to insert objects into the product. The product will not only be damaged, but there is also a risk of injury, as well as danger to life through electric shock.



Never open the housing of this product, for it poses mortal danger from electric shock or may even cause a fire.

Keep packaging such as plastic films away from children. There is the risk of suffocation of misused.



Use caution with the product, knocks, blows, or even falls from a low height can damage it.



In industrial facilities, the accident prevention regulations of the trade associations for electrical systems and equipment must be observed.

Do not use the product if it is damaged. It can be assumed that safe operation is no longer possible, if:

- The product has visible damage.
- The product is not working properly (thick smoke or a burning smell, audible crackling noise, discoloration of the product or surrounding areas).
- The product was stored under adverse conditions.
- Tough conditions during transport.



Improper handling of this product operated on the mains voltage can cause mortal danger from electric shock!



Interconnection or combining equipment bearing a CE label does not inevitably result in a system that conforms with the safety regulations. Integrators will have to reassess the new product's compliance according to the locally valid directives. See section Conformity for more information on certifications of this product.

## 1.3. Installation

This product must be connected and installed by a qualified electrician who is familiar with the relevant regulations (e.g. VDE).



Never plug the product into voltage / power supply immediately after it has been moved from cold into warm environment (e.g. during / after transport / unboxing). The resultant condensed water may damage the product or may cause electric shock.



Allow the product reach the ambient temperature. Wait until the condensation has evaporated, this can take a few hours. Only then can the product be connected to the voltage / current supply and put into operation.

## 1.4. Operation

Use the product in the specified environment. Use outside of the specifications can damage the product and/or stop any operation.

The product may not be exposed to extreme temperatures, direct sunlight or strong vibrations. Protect the product from moisture, dust and dirt.



Operation in environments with excessive dust, flammable gases, vapours or solvents is not permitted. It may cause explosion or fire.

- Do not overload the product. Note the input / output voltage and currents as well as output powers indicated on the product.
- Depending on the input currents and input voltages, suitable connecting cables with appropriate cable diameter must be used. Only use the plugs and connectors supplied in the original packaging with the product.

## 1.5. Maintenance and Cleaning

- If the product and/or the connecting cable is damaged, do not touch it: there is mortal danger from electric shock! First, turn off the power supply to all poles of the product. Verify the absence of voltage using an appropriate meter.
- For the end consumer, the product is maintenance-free. Leave any maintenance to an expert. Repairs may only be done by the factory itself (copyright holder).
- For external cleaning one can use a clean, soft, dry cloth. Dust can be easily removed with a clean, soft brush and a vacuum cleaner.

## 1.6. Disposing



At the end of its lifecycle, do not dispose of this device in the regular household rubbish. Return it to the supplier who will dispose of it correctly.



The user is lawfully obligated to return unusable batteries. **Disposal of used batteries through household waste is prohibited!** Batteries which contain dangerous substances are labelled with a picture of crossed out trash bin. The symbol means that this product may not be disposed through household waste.

Unusable batteries can be returned free of charge at appropriate collection points of your waste disposal company or at shops that sell batteries. By doing so, you fulfil your legal responsibilities and help protect the environment.



This product was packed and stuffed with proper materials to protect it during transportation. Packaging materials can be recycled and should be disposed environmentally friendly.

## 1.7. Warranty

The device is intended for a normal operational environment according to the corresponding norm.

The following circumstances are excluded from the warranty:

- Inappropriate handling or interventions.
- Chemical influences.
- Mechanical defects.
- External environmental influences (natural catastrophes, etc.)



Repairs during and after warranty period are assured by the manufacturer.

## 2 Introduction

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### **Coming Soon!**

This page is under development.

## 3 Technical data

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| Parameter                       |                                   |
|---------------------------------|-----------------------------------|
| RF controller range             | 30 m <sup>[1]</sup>               |
| RF pairing range <sup>[2]</sup> | 10 m in indoors<br>4 m outdoors   |
| bandwidth                       | 2,4 GHz                           |
| power supply                    | 2 pcs AAA battery, 1.5 V alkaline |



- Battery life approx. 1.5 years, (according to usage frequency).

[ 1 ]

Maximum range depending on the ambient conditions.

[ 2 ]

Only in direct direction. The range decreases further if the the display is operated from an acute angle.

## 4 Control

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1. To turn on the RF remote control, press any button on the remote control and wait for the red LED to light up in the upper right corner.
2. The glow of the red LED indicates that the remote control is on and can be used in the usual way.
3. Pressing a button and transmitting the code to the device is signaled by the flashing of the red LED.
4. The remote control will automatically turn off after one minute of inactivity.

### 4.1. Pairing to a device

To add a new RF remote control, it is necessary to ensure direct visibility between the remote control and the display. Pairing of the RF remote control is initiated by transmitting a signal using an infrared (IR) transmitter located at the front of the RF remote control.

Procedure:

1. Aim the remote control at the display and verify its proper function and range (e.g., by pressing the **MENU** key followed by the **ESC** key - the adjustment menu should appear on the display with subsequent return to the original view).
2. Press and hold the **F8** key. After five seconds, the display will show the menu twice in a row, transitioning back to the original view. This indicates entry into pairing mode, which the display will maintain for 30 seconds.
3. To pair, press any key except the **F8** and **F9** keys. The display will show the menu three times with a transition.



By this procedure, the previously assigned remote control is removed and replaced with a new one. To assign multiple RF remote controls to the display, please follow the procedure outlined in the next chapter, "Assigning Additional Remotes."

### 4.2. Cloning

The receiver in the display unit stores only the memory of the last assigned remote control. Adding additional RF remote controls operates on the principle of cloning controllers. This means that the first RF remote control is assigned to the display, and copies of the first one are created from the subsequent controllers.

Procedure:

1. Turn on the RF remote control you want to assign.
2. Press and hold the **F9** key until the red LED starts flashing on the remote control. The flashing indicates a state of waiting for a signal from an already assigned remote control. This state is active for 30 seconds.
3. Turn on the already assigned RF remote control and press any key except the **F8** and **F9** keys. The LED on the unassigned remote control will stop flashing and remain lit. This completes the cloning process, and the remotes now have identical identifiers. Any of these remotes can be used to add another remote control.

### 4.3. Removing a Controller

Removing a controller is done by generating a new identifier for the controller. The procedure for generating a new identifier is as follows:

1. Turn on the RF remote control you want to remove.
2. Press and hold the **F9** key until the red LED starts flashing on the remote control. This state is active for 30 seconds.
3. Press the **F8** key. The LED will stop flashing and remain lit. The remote control now has a new identifier and is not assigned to any display.



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