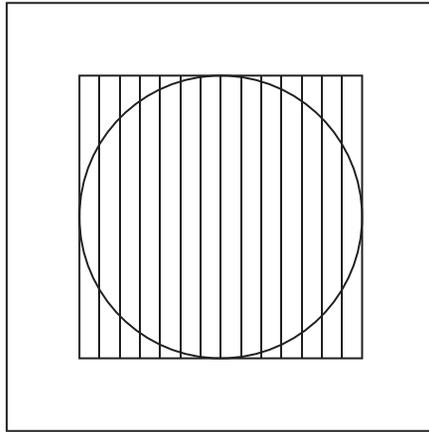


QLOCKTWO



MOON

# Instruction manual



Read and store this instruction manual carefully to ensure safe usage and many years of enjoyment with your MOON 90 | MOON 180. This instruction manual is also available online at [www.qlocktwo.com/downloads](http://www.qlocktwo.com/downloads)

## 1. Safety information



Read the instruction manual carefully prior to installation and use in order to prevent injury and equipment damage.



Risk of suffocation due to packaging components, e.g. film and polyethylene. Keep packaging and its components out of the reach of children.

### 1.1 Package contents

Check the contents of the package after opening, see mounting template. Contact your dealer if any components are damaged or missing.

### 1.2 Transport and storage

#### **IMPORTANT To avoid damage to the product, please observe the following:**

- Store the original packaging for subsequent use.
- Avoid knocking, shaking and vibrations during transport.
- MOON 90 weighs approx. 30 kg (net). Two persons must transport the product.
- MOON 180 weighs approx. 100 kg (net) and approx. 300 kg (incl. transport box). At least four persons must transport the product.
- Store at room temperature in a dry place with low humidity (see technical specifications).
- Always set MOON 90 | MOON 180 to transport mode prior to transport and storage.

### 1.3 Place of installation

#### **IMPORTANT To avoid damage to the product, please observe the following:**

- For indoor use only.
- Do not install in rooms with high humidity (e.g. bathroom).
- Place out of reach of children and pets.
- Place in such a way that MOON 90 | MOON 180 cannot fall down in the event of being inadvertently knocked or pulled.
- Avoid direct heat (e.g. from radiators).
- Avoid direct sunlight.

### 1.4 Battery

For your own safety, please observe the following:

- Do not replace the battery yourself. This may damage the battery, which can lead to overheating, fire and injuries.
- The battery inside MOON 90 | MOON 180 may only be serviced and recycled by QLOCKTWO or an authorised service partner.
- Always dispose of batteries in accordance with applicable environmental regulations and guidelines.

## 1.5 Cleaning

### IMPORTANT

- Moon textures:  
The highly sensitive surfaces may only be cleaned carefully with a soft, dry and dust-free paintbrush without exerting any pressure.
- Body, front frame, prisms:  
Remove light dirt with a soft, dry and non-abrasive cloth.  
Remove any other dirt with a soft, slightly damp and non-abrasive cloth.

## 1.6 Warranty

The warranty period is two years. Only use MOON 90 | MOON 180 with original accessories.

If the instructions in this manual are not observed or if MOON 90 | MOON 180 is modified, opened or altered, the warranty shall cease to apply.

## 1.7 Disposal

**IMPORTANT** Incorrect disposal damages the environment.



**Electrical devices:** electrical devices may not be disposed of via household waste. Observe regional disposal regulations. The dealer is obligated to accept returned devices.



**Li-ion battery:** Used lithium-ion batteries must not be disposed of via residual waste under any circumstances. They are highly flammable and may cause fires in waste disposal facilities.

Dispose of electrical devices in accordance with applicable environmental regulations and guidelines outside the EU.

## 2. Installation

MOON 90 | MOON 180 is suitable for wall installation only.

Read this instruction manual prior to installation and follow the instructions.

### 2.1 Power supply

- MOON 90 | MOON 180 is operated with a built-in battery.

### IMPORTANT

Fully charge the battery prior to installation (see 3.3)



#### **WARNING**

##### **Electricity can cause severe or even fatal injuries**

- Do not pull on electrical cables, only pull out the adapters.
- Lay the cables in such a way that they cannot be bent or caught: to avoid the risk of tripping, do not lay cables in passages.
- Inspect all cables for visible damage before connecting to the power supply.  
Do not install or connect MOON 90 | MOON 180 if the product is damaged in any way.
- Electrical work may only be carried out by a qualified electrician.
- Before installing the product on the wall, cut off the mains power supply and verify that no voltage is present.
- Ensure that the mains power supply conforms with the permissible electrical specifications; see chapter 5 'Technical specifications'.
- Do not touch cables and plugs with wet hands.



#### **WARNING**

##### **If the product falls, it may cause severe crush injuries or impacts**

#### **MOON 90**

- MOON 90 weighs approx. 30 kg (net). Two people must be able to stand safely during installation.
- Depending on the installation height, ensure that scaffolding or a lifting platform is provided by qualified professionals.
- The standing room must be at a height that allows at least two people to safely hold and install a MOON 90.

#### **MOON 180**

- MOON 180 weighs approx. 100 kg (net). Six people must be able to stand safely during installation.
- Depending on the installation height, ensure that scaffolding or a lifting platform is provided by qualified professionals.
- The standing room must be at a height that allows the installers to safely hold and install a MOON 180.
- When mounting the MOON 180 onto the wall brackets, ensure that all four bolts are inserted into the brackets and that the MOON 180 rests securely on the wall brackets.

**MOON 90 – mounting the wall bracket**

1. Check the load-bearing capacity of the dowel connections and the wall.
2. Set the position of the MOON 90.
3. Mark the drill holes using the mounting template.
4. Hold the wall bracket against the wall in the desired position and align horizontally.
5. Before drilling, check the wall for pipes and cables (electricity, water, etc.).
6. Drill the holes in the correct size (see mounting template), clean, and install the corresponding connectors (e.g. dowels). Use the screws supplied to affix the wall bracket to the wall (see Fig. 2.).

**MOON 90 – mounting**

Mount MOON 90 onto the wall bracket from above using the opening in the back designed for this purpose. MOON 90 is installed correctly when the back is flush with the wall and rests securely on the wall bracket.

**MOON 180 – mounting the wall brackets**

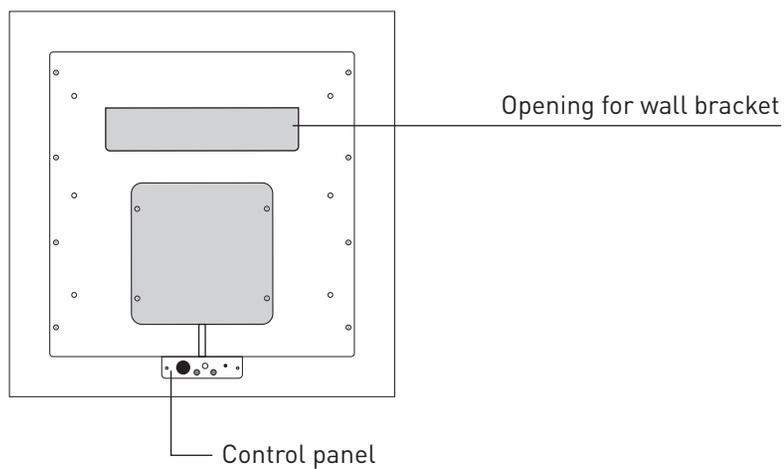
1. Check the load-bearing capacity of the dowel connections and the wall.
2. Set the position of the MOON 180.
3. Hold both wall brackets against the wall in the intended position and align vertically.
4. Mark the drill holes.
5. Before drilling, check the wall for pipes and cables (electricity, water, etc.).
6. Drill the holes in the correct size (see mounting template), clean, and install the corresponding connectors (e.g. dowels). Use the screws supplied to affix the wall brackets to the wall (see Fig. 4.).

**MOON 180 – mounting**

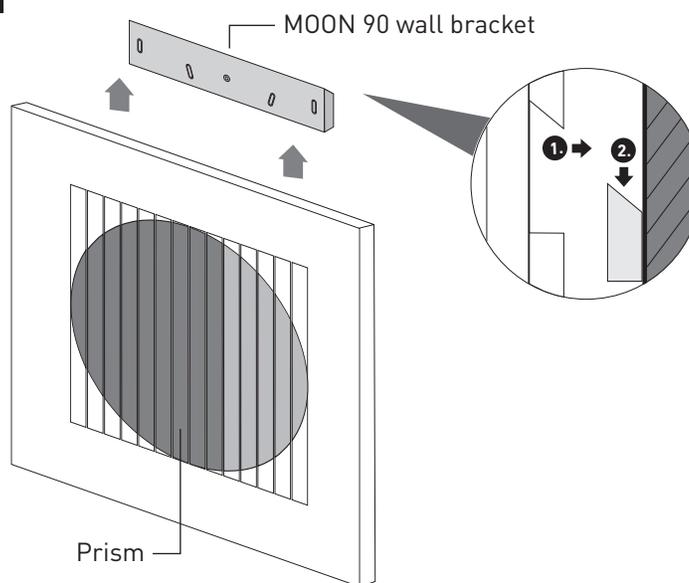
Mount MOON 180 onto the wall brackets from above using the openings in the back designed for this purpose. MOON 180 is installed correctly when the back is flush with the wall and rests securely on the wall brackets.

# MOON 90

## 1 Back



## 2

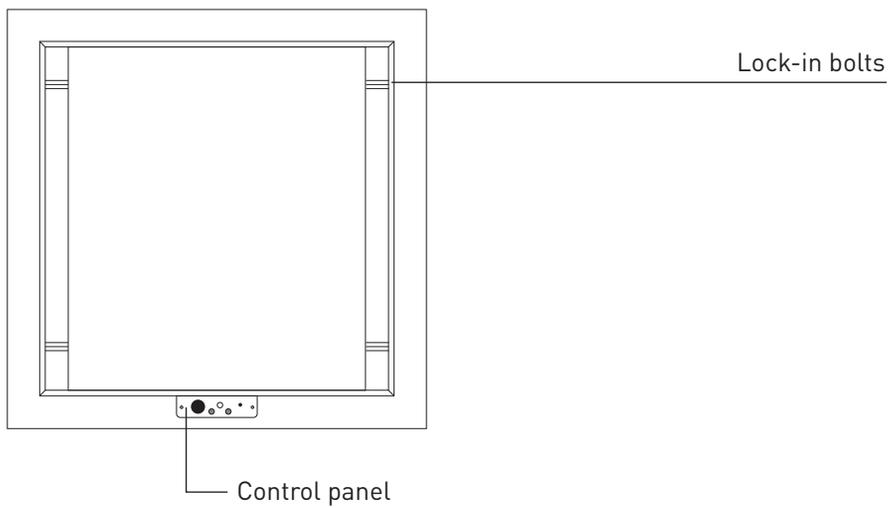


! Observe installation instructions!



# MOON 180

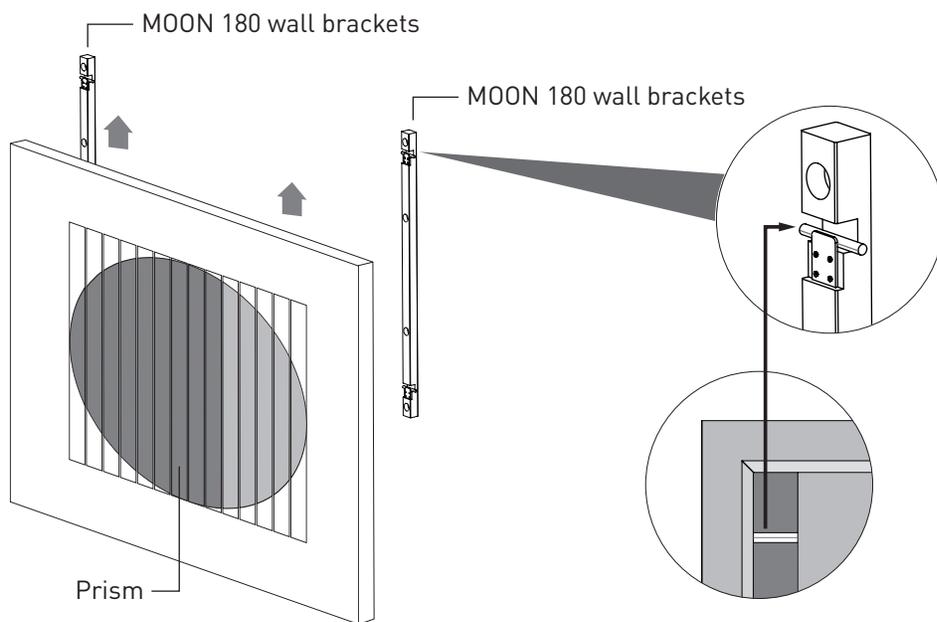
## 3 Back



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## 4

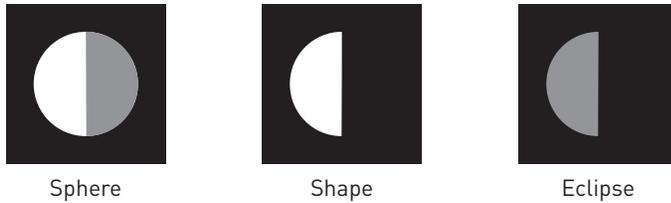
! Observe installation instructions!



### 3. Functions and operation

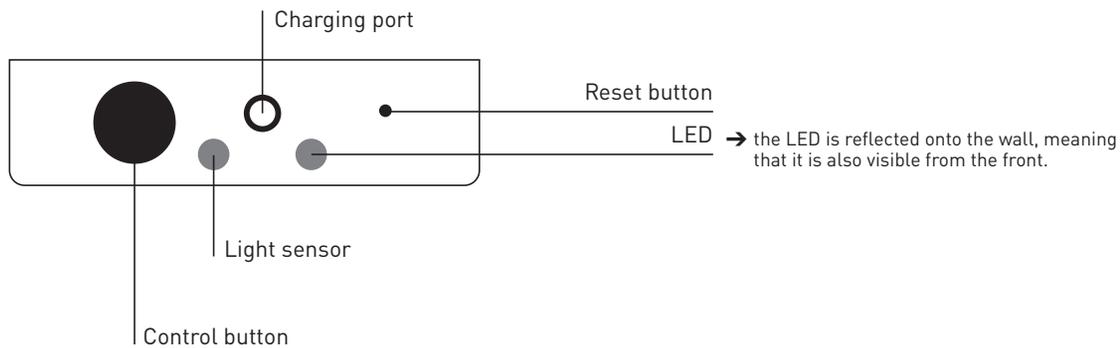
#### 3.1 Functions

- Display of the current moon phase
- Divided into 28 phases/stages per cycle (full moon → full moon)
- Battery-powered → One battery charge lasts > one year
- The moon phase is calculated cyclically, based on the synodic period.
- The moon can be shown in one of three display formats: sphere, shape and eclipse.



#### 3.2 Operation

Charge the battery prior to use [see 3.3]. The 'empty' sides of the prisms are visible (transport mode). Switch to active mode by pressing the control button.



## Operation via the FLASHSETTER app

With the free FLASHSETTER app, the current moon phase can easily be transmitted to MOON 90 | MOON 180 from many smartphones via the light sensor. For more information, visit [www.qlocktwo.com/FLASHSETTER](http://www.qlocktwo.com/FLASHSETTER)

### Additional app function (sleep mode)

Sleep mode can be activated/deactivated using the FLASHSETTER app. When sleep mode is activated, any moon phase changes (rotation of a prism) will not take place during the night, but will be delayed until the following day.

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## Manual operation via control button

### ■ Switching from transport mode to active mode:

Hold down the control button for a very long time (> 13 sec.) until the colour of the LED changes from blue to green. The prisms will begin rotating to display the current moon phase. The current moon phase is preconfigured on delivery.

### ■ Setting the moon phase manually

Press the control button once; the LED will turn blue. A prism will rotate to indicate the next moon phase. The next automatic change of moon phase will begin in approx. 25 hours.

### ■ Changing the display format (sphere/shape/eclipse):

Hold down the control button until the LED turns blue. The desired display format can now be selected.

Sphere: Press the control button once

Shape: Press the control button twice

Eclipse: Press the control button three times

### ■ Switching from active mode to transport mode:

Hold down the control button for a very long time (> 13 sec.) until the colour of the LED changes from blue to green.

The prisms will begin rotating to indicate transport mode ('empty side').

### ■ Special function (switching from northern to southern hemisphere)

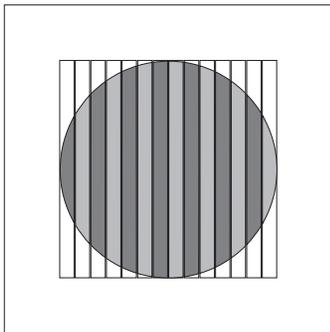
Hold down the control button twice in succession, until the LED turns blue each time.

The prisms will rotate to switch from displaying the northern hemisphere to displaying the southern hemisphere (or vice versa).

**IMPORTANT: This selection can only be made immediately after switching from transport mode to active mode!**

### 3.3 Charging/battery warning

- MOON 90 | MOON 180 is operated with a battery
- One battery charge lasts > one year
- When the battery charge level is < 20%, MOON 90 | MOON 180 will display a 'zebra pattern' (prisms alternating between full and new moon)
  - the battery of MOON 90 | MOON 180 must be charged
- To charge, insert the round connector (dimensions: 5.5 × 2.5 mm) of the supplied charging cable into the charging port of MOON 90 | MOON 180.  
Connect the charging cable's USB-C connector with the mains adapter.  
Plug the mains adapter into the socket.
- Once MOON 90 | MOON 180 is fully charged, the LED will turn green.  
The charging cable can now be removed.
- How to check the battery's charge level: Hold down the control button once (approx. 5 sec.) and press four times. The green LED will indicate the charge level in 10% increments: if the LED flashes four times, the charge level is 40%.



Charge level below 20%

## 4. Troubleshooting

### 4.1 Repairs

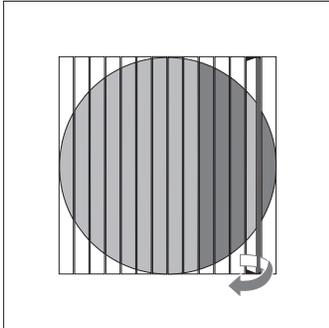
Never repair or disassemble MOON 90 | MOON 180 yourself.

Maintenance and repair work may only be carried out by an authorised dealer or the manufacturer.

Contact details can be found on the last page of this instruction manual.

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### 4.2 Troubleshooting by the user

Error	Solution
<b>Twisted prism</b>	<p>Put on cotton gloves.</p> <p>If necessary, the prisms of MOON 90   MOON 180 may be rotated manually. The prism is in the correct position if it easily clicks into place.</p> 
<b>MOON 90   MOON 180 no longer responding</b>	<ul style="list-style-type: none"><li>■ Check battery status → insert charging cable into the charging port to charge <b>B</b></li><li>■ Reset the electronics: hold down the reset button <b>C</b> for approx. one second using a thin object (diameter &lt; 2.5 mm, e.g. a paper clip). Test the functionality again.</li></ul>

## 5. Technical specifications

### Model:

Dimensions (h × w × d):

Weight:

Ambient temperature:

Max. relative humidity:

USB mains adapter, input:

USB mains adapter, output:

MOON 90, input:

Power consumption:

Battery:

Storage:

### MOON 90

900 mm × 900 mm × 74 mm

approx. 30 kg

+15°C to +30°C

70%

100 V to 240 V, 50/60 Hz, 0.5 A

5 V = 3 A

DC 5 V = 1.1 A

4 W

LiPo battery, 2,600 mAh, 7.3 V, 19 Wh

Store at room temperature in a dry place with low humidity

### Model:

Dimensions (h × w × d):

Weight:

Dimensions of solid wood transport case (h × w × d):

Weight of solid wood transport case:

Total weight:

Ambient temperature:

Max. relative humidity:

USB mains adapter, input:

USB mains adapter, output:

MOON 180, input:

Power consumption:

Battery:

Storage:

### MOON 180

1,800 mm × 1,800 mm × 87 mm

approx. 100 kg

210 × 200 × 80 cm

approx. 200 kg

approx. 300 kg

+15°C to +30°C

70%

100 V–240 V, 50/60 Hz, 0.5 A

5 V = 3 A

DC 5 V = 1.7 A

4 W

LiPo battery, 2,600 mAh, 7.3 V, 19 Wh

Store at room temperature in a dry place with low humidity

 This product complies with the essential requirements of applicable European product safety legislation.

Errors and omissions excepted in the technical specifications. Subject to change.  
We accept no liability for misprints or errors.