



# OVOSONO

Circle350

## User Manual

Installation, Operation and Care



## 1. Overview

Thank you for choosing the OVOSONO Circle350. The OVOSONO Circle350 is an LED wall clock for indoor use. It displays the time using an hour ring and minute bars. The brightness automatically adapts to ambient light – in the evening, the clock dims automatically for a pleasant atmosphere. The device operates completely offline – no data is stored, transmitted or analysed.

12-hour display in circular format

Automatic brightness adjustment via 4 light sensors

Manual brightness setting available

Daylight saving time switching

Fully offline – no network connection

## 2. Package Contents

Please check the package contents for completeness:

1x OVOSONO Circle350 LED wall clock

1x Wall mount (Wallpinnie) with screw and anchor

1x User manual

Not included: USB-C cable (min. 2m, angled required) and USB power adapter (5V, min. 2A). Available at [www.ovosono.com](http://www.ovosono.com).

## 3. Wall Mounting

Placement tips: Avoid direct sunlight on the front panel. Do not cover the front panel as the brightness sensors are integrated into the display. Do not mount above heat sources.

1. Choose a suitable indoor mounting location.
2. Ensure a power outlet is nearby for the USB power adapter.
3. Mark the drill hole at the desired position. Recommended height for the wall mount: 170 cm.
4. Drill the hole and insert the anchor.
5. Attach the wall mount (Wallpinnie) with the screw to the wall.
6. Hang the clock on the wall mount. Hold the clock by the frame to avoid fingerprints on the front panel.



## WARNING

Check for electrical or water pipes before drilling. The included screw and anchor are suitable for solid masonry. For other wall types (e.g. plasterboard), use appropriate fasteners.

## 4. Power Supply & Initial Setup

The clock is powered via USB-C at 5V DC (safety extra-low voltage SELV).

1. Connect the USB-C cable to the socket on the back of the clock. The plug should point downwards.
2. Connect the other end to a USB power adapter (5V, min. 2A).
3. Plug the power adapter into a wall outlet.
4. The clock performs a brief self-test (LEDs light up briefly) and displays the time.
5. Set the time (see section 6. Time Setting).

## WARNING

An angled USB-C cable is required as the clearance to the wall is too small for straight plugs. Only use USB-C cables in perfect condition. No liability is accepted for damage caused by unsuitable or non-compliant power adapters.

## 5. Understanding the Time Display

The OVOSONO Circle350 displays time using 27 LEDs in three groups:

Hour ring (12 LEDs): One LED shows the current hour, like an analogue clock.

5-minute bar (11 LEDs): One LED shows the current 5-minute step (position 1 = 5 min, position 2 = 10 min, ... position 11 = 55 min).

Single minutes (4 LEDs): 1 to 4 LEDs show the minutes between 5-minute steps. LEDs are added up (1 LED = 1 min, 2 LEDs = 2 min, etc.).

Example: 2:37 PM — Hour ring: LED at position 2 (2 PM in 12h format). 5-minute bar: LED at position 7 ( $7 \times 5 = 35$  minutes). Single minutes: 2 LEDs ( $37 - 35 = 2$  remaining minutes).

## 6. Controls & Time Setting



The clock has four buttons on the right side of the housing (T1 at top to T4 at bottom).

T1 short: Toggle brightness Auto/Manual. T1 long (1.5 sec): Adjust manual brightness.

T2 short: Toggle daylight saving time.

T4 short: Start/end time setting.

Time setting: Press T4 to start. Then T1 = hour +1, T2 = minutes +5, T3 = minutes +1. Press T4 again to finish. Tip: Seconds are reset to 0 when you finish — press T4 exactly when your reference clock reaches the desired minute.

## 7. Brightness

The clock measures ambient light via four built-in sensors and adjusts brightness automatically (default). You can switch between automatic and manual brightness.

Auto ' Manual: Press button 1 briefly — the display flashes 2x in a square pattern.

Manual ' Auto: Press button 1 briefly — the display pulses 2x gently.

Adjust manual brightness: Hold button 1. The brightness changes continuously. The 5-minute bar shows the current level as a bar graph.

## 8. Daylight Saving Time

After powering on, winter time (standard time) is active.

Press button 2 briefly to switch between summer and winter time.

Summer time: The clock displays one hour ahead (+1 hour).

Winter time: The clock displays one hour behind ( -1 hour).

## 9. Cleaning and Care

Disconnect the clock from power before cleaning. Avoid touching the front panel with bare hands.

Front panel: Remove dust with a soft, dry microfibre cloth. Wipe gently without pressure.

Frame: The anodised aluminium frame can be wiped with a slightly damp cloth.

Do not use liquids, sprays or glass cleaners on the front panel.

Do not use solvents (acetone, benzine) or alcohol-based cleaners.



Keep the original packaging for transport or storage.

## **WARNING**

The front panel is sensitive to scratches. Use only soft, lint-free cloths. Scratches cannot be removed.

## **10. Safety Instructions**

Observe the following safety instructions for safe operation:

Indoor use only (IP20). Do not operate in damp rooms.

Operate only with 5V DC via USB-C (SELV safety extra-low voltage).

Only use power adapters with CE marking.

Maintain at least 5 cm clearance above the clock.

Do not open the device — no user-serviceable parts inside.

Disconnect from power during thunderstorms, unusual noises/smells, extended non-use, and cleaning.

Do not operate with visible damage to housing or cable.

Not a toy — keep away from children.

## **11. Troubleshooting**

Common problems and solutions:

Clock displays nothing: Check USB cable and power adapter. Use an adapter with min. 2A.

Wrong time: Set time manually (section 6). Check daylight saving setting.

Brightness unresponsive: Check auto mode (press T1, look for pulsing signal). Clean sensor area.

Display flickers: Use a high-quality USB adapter (5V, min. 2A). Check cable for damage.

Clock after power outage: Time must be set again (section 6).

LEDs flash at startup: Normal self-test. If no normal operation after 30 seconds: disconnect power for 10 sec and reconnect.

## **12. Technical Data**

Model: OVOSONO Circle350

Dimensions: 350 × 350 mm, depth: 32.5 mm (acrylic) / 28.5 mm (aluminium)



Weight: approx. 2.0 kg (alu) / approx. 2.5 kg (acrylic)

Frame: Anodised aluminium

Power: 5V DC (USB-C, SELV), < 10 W

LEDs: 27x WS2812B (12 + 11 + 4)

Light sensors: 4x integrated (automatic brightness)

Protection: IP20 (indoor only)

Operating temperature: 0°C to 40°C

Made in Germany

Detailed specifications are available in the separate datasheet at [ovosono.com/downloads](https://ovosono.com/downloads)

## 13. Warranty and Contact

The statutory warranty period of 2 years from the date of purchase applies. Keep your proof of purchase as warranty documentation. The warranty does not cover damage caused by improper use, external influences, or normal wear and tear.

Contact: — Manufacturer: Elektronikhandel Michael Gräf, Breitscheidstraße 84, 70176 Stuttgart, Germany [support@ovosono.com](mailto:support@ovosono.com)