

Orphek iCon App Manual

Setup, pairing, programming, and daily operation - in order, without the duplicate short/long versions.

Natura iCon | Atlantik iCon | Atlantik Compact iCon | Amazonas 960 iCon | OR4 iCon | OR3 via Osix

Free on iOS and Android | Revised September 2026

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1. Welcome and compatible lights

This manual explains how to set up and use the **Orphek iCon App** to control Orphek iCon lighting systems. The app is free and works on **iOS** and **Android** over Wi-Fi and Bluetooth.

iCon Intelligent Connectivity gives you local and remote control, cloud support, fast response, and extra data security.

Compatible devices

- Natura iCon and Natura Max
- Atlantik iCon and Atlantik Compact iCon
- Amazonas 960 iCon (4 channels) and Amazonas 80 iCon (1 channel)
- OR4 iCon LED Bars - 1 channel with the iCon dimming driver, or 6 channels through Osix
- OR3 LED Bars - only when connected through the **Osix Smart Device**

Older non-iCon lights

Lights purchased before iCon technology cannot use Sun & Moon Synchronization or the iCon-only features in this manual.

2. Before you start

Do these three things first. Most pairing problems start here.

- Power the light(s) **on** before you open the app.
- Use a stable **2.4 GHz** Wi-Fi network with the password ready. Many lights pair on 2.4 GHz only.
- Update the Orphek iCon App to the latest version in the App Store or Google Play.

Keep the app and the light updated

When a new update is available, the app shows a pop-up such as **NEW UPDATES** or **NEW DEVICE FIRMWARE FOUND**. Tap **UPDATE NOW**.

After a device firmware update, run **Net Pairing** again: press the reset button on the light **four times**.

You can turn on Auto Upgrade so light settings update automatically. Some important updates still need your confirmation. You can also choose to upgrade later.

If the app behaves strangely, clear the cache: tap **Me** > gear icon (top right) > **Clear Cache**.

3. Download the Orphek iCon App

iPhone / iPad

1. Open the **App Store**.
2. Search for **Orphek iCon**.
3. Tap **Get** and install.

Android

1. Open the **Google Play Store**.
2. Search for **Orphek iCon**.
3. Tap **Install**.

4. Create an account

1. Open the Orphek iCon App.
2. Tap **Sign Up** (first time) or **Log In** if you already have an account.
3. Read and accept the User Agreement and Privacy Policy.
4. Enter your email address and tap **Get Verification Code**.
5. Open that email, copy the 6-digit code, and enter it in the app.
6. Finish registration.

5. Allow Bluetooth and location

iCon lights use both Bluetooth and Wi-Fi. The app also needs location permission so it can read local time, weather, and time zone for Sun & Moon Sync.

1. When asked for Bluetooth, tap **OK**.

2. When asked for location, tap **Allow While Using App**.
3. Tap **Add Device**, then **Got It**.

If you deny location

Smart features that depend on time, weather, and time zone will not work correctly.

6. Set the language

On first login the app follows your phone language if that language is supported. If it is not supported, the app uses English. Changing the app language does **not** change your phone language.

Supported languages: Chinese, Traditional Chinese (Hong Kong), English, Spanish, Spanish (Latin America), French, Arabic, Japanese, German, Italian, Korean, Russian, Portuguese, Portuguese (Brazil).

Change language manually

1. Tap **Me** (bottom right).
2. Tap the gear icon (top right).
3. Tap **Language** and choose a language. The app updates at once.

7. Add (pair) your light

One-minute window

Press the **reset button on the light four times** until the light flashes. That starts Net Pairing.

You then have **one minute** to choose the Wi-Fi network and enter the password. If you miss the window, press the reset button four times again.

1. Confirm the light is on and flashing after four reset presses.
2. In the app, tap the **+** at the top right, then tap **Add Device**.
3. When the light appears, tap **Add**.

- 4. Select your Wi-Fi network (SSID), enter the password, and tap **Next**.
- 5. Wait while the app connects.
- 6. When you see **Added successfully**, tap the light under **All Devices** to open it.

8. Find your Device ID

The Device ID (also called Virtual ID) is the unique ID of your light. Have it ready when you contact Orphek support.

- 1. Open the light from **All Devices**.
- 2. Tap **Settings** at the bottom, then **System Settings**.
- 3. Tap **Device Information**.
- 4. The Device ID is shown on that screen.

9. App overview: four main tabs

After you open a light, the main screen has four areas:

Tab	What it is for
Dashboard	Live status: active mode, channel levels, temperature, and time.
Control	Sun & Moon Sync, Simple Setting, Program, and Quick.
Expand	Clouds, Jellyfish, Lunar, Acclimation, and Timing.
Settings	Time, safety, quiet mode, groups, sharing, and device info.

How many channels your light has

The same app controls all Orphek iCon lights and Osix. The number of working channels depends on the fixture. Unused channel sliders may appear, but only the channels listed below do anything.

Light / device	Channels	What each channel is
Natura iCon, Natura Max, Atlantik iCon, Atlantik Compact iCon	6	Each channel is one color on that light.
Osix Smart Device with OR4 bars	6	Each channel is one OR4 bar (treated as one color). You need more than one bar for multi-color control.
Amazonas 960 iCon	4	Each channel is one color on that light.
OR4 with iCon dimming driver (no Osix)	1	Only channel 1 works. No color mix. The whole bar changes together. You cannot change individual LEDs.
Amazonas 80 iCon	1	Only channel 1 works. The whole unit changes together.

On a single OR4 with the iCon dimming driver, use Osix plus extra bars if you want color control. Osix then maps its 6 channels to OR4 bars, not to single LEDs inside a bar.

10. Dashboard

- The illuminated icon shows which mode is running (Program, Sun & Moon, Lunar, Quick, and so on).
- The working channels show intensity. Daytime range is **0% to 100%**. Lunar range is very low (about **0.01% to 1%**).
- Temperature and current time are shown on the same screen.
- When Moon Cycle is running, the lunar icon turns **blue**.
- If Sun & Moon Sync is on and daylight hours fully cover moonrise/moonset, there is no lunar window and all channels can show 0% at night.

11. Control: Quick mode

Quick lets you change the working channels in real time. Use it to test a spectrum, photograph the tank, or run a temporary look for maintenance. On 1-channel lights only channel 1 responds.

- Each channel moves from 0% to 100%.
- Adjust one channel at a time, or move all channels together with the master control.
- Quick runs for **2 hours**, then the light returns to Program. This is a safety limit so the light does not stay at a high setting all night.
- Auto-recovery is **On** by default in Settings. That is what sends the light back to Program after two hours.

Save a Quick combination

1. Set the working channels the way you like.
2. Tap the save icon in the upper-right corner, give the preset a name (for example Quick-1), and tap **Save**.
3. Tap the presets icon (second icon, upper right) to open the list and reuse any saved combination.

12. Control: Sun & Moon Synchronizer

Sun & Moon Sync is the core iCon feature. It follows real sunrise, sunset, moonrise, and moonset for your location and drives intensity from the HELIUS curve (or from a program you choose).

On first use it starts with default settings. When it is active, the Sun Moon Sync button is illuminated in blue. A graph shows the day curve. Two cyan marks on the time axis show the start and end of the moon window.

Location

The app detects location from your phone automatically. To pick another place: open the map, drop the pin, tap **Select**. If sunrise/sunset data cannot be loaded for that place, choose a nearby location.

Turn it on or off, Auto vs Custom

1. Open **Sun & Moon Sync** (upper left from Control / Dashboard).
2. Move **Enable** on or off.
3. Leave the mode on **Auto** for real local times, or switch to **Custom** to set sunrise, sunset, moonrise, and moonset yourself. Use the side arrow to pick a time point and the down arrow to confirm it.
4. Tap **Send**. Nothing is saved until you tap Send.

Always tap SEND

Any change in Sun & Moon Sync - enable, times, program, offset, calendar - is ignored until you tap **Send**.

Select which program Sync uses

Under **Select Program** choose built-in **HELIUS** or a custom program you built on the Program page. The graph updates to that program. This selector is not available in Group mode - Group mode runs HELIUS by default and only in Custom time mode.

Time Offset

Time Offset shifts sunrise, sunset, moonrise, and moonset later or earlier by a number of hours. Set the hours, tap Send. Set the offset back to 0 and tap Send to remove it. Offset does not work in Custom mode. The graph does not draw the delay; you see the effect on channel levels on the Dashboard.

Synchronization Calendar

Sync Calendar lets you run the astronomical times of another date (seasonal control). Open Sun & Moon Sync, pick a date. You can move up to one year from today. This does not work in Custom mode.

Group mode rules

- With several lights in a group, Sun & Moon Sync works only in Custom mode.
- Default times are 0. You must set sunrise, sunset, moonrise, and moonset yourself.
- Select Program is not available in Group mode.

Clouds and Sun & Moon cannot run together

Clouds mode is not compatible with Sun & Moon Synchronization. If Clouds is on, it overrides the Sun & Moon cycle.

More detail: [Sun & Moon Synchronizer feature page](#).

13. Moon Cycle and Lunar Brightness Limit

Turn **Moon Cycle** on inside Sun & Moon Sync. The light then runs lunar output between moonrise and moonset. The Lunar function under Expand starts and stops automatically at those times. You cannot set Lunar start/end by hand while Moon Cycle is on.

If you later turn Sun & Moon Sync off and run Program, Lunar start and end times go back to whatever you last set under Expand > Lunar, because Lunar then follows Program again.

How brightness changes through the month

- Elapsed Time shows the calendar day of the cycle.
- Day 1: about **0.067%**.
- Each day adds about 0.067% until day 15 (full moon) at **1%**.
- Then brightness falls by about 0.067% per day and reaches 0% on day 30.

Lunar Brightness Limit

While Lunar Mode is active you can cap each channel so moonlight never goes above a safe ceiling. Range per channel: **0.01% to 1.00%**. Changes apply at once. The monthly cycle still runs, but it will not exceed the cap you set.

- Stops excess night light.
- Keeps a more natural lunar cue for corals and spawning work.
- Useful on sensitive reef systems.

14. Control: Simple Setting

Simple Setting is the fast way to build a day curve without drawing a full Program graph. You can run it every day or only on selected days (Sunday to Saturday).

- Four presets are already there: **Sunrise, Noon, Afternoon, Sunset**. Scroll up to see them.
- You can have up to **eight** time points, each with a name, an icon, and per-channel intensity.
- Tap **Add New** to create a point. Set time and channels (one by one or All). Pick an icon. Tap Save. Tap Reset to restore defaults on that screen.

- Tap any existing point to edit it. Delete removes that point.
- On the circular ring, drag an icon to change its time. The time label under the ring updates as you drag.
- Each point has a minus (-) button. Tap it and it becomes plus (+): the point is paused and leaves the ring. Tap plus to turn it back on.
- Under the ring, tap weekdays to choose which days Simple Setting runs.

More detail: [Simple Setting feature page](#).

15. Control: Program and HELIUS

Program is the full 24-hour editor. You set channel intensity at chosen times. Orphek smart dimming fills the ramps between points, so you do not need dozens of points.

HELIUS (built-in)

HELIUS is the factory program. It cannot be deleted. It is built from research on sunlight for SPS and LPS growth. The default graph is a 12-hour rise and fall (about 09:00 to 21:00) with a peak in the middle. We recommend HELIUS if you do not want to design a curve yourself.

Buttons and icons

- + / - - add or remove a time point.
- < / > - nudge the selected time in small steps.
- **Play** - 2-minute preview of the full 24-hour program.
- List icon - saved programs.
- Save icon - store the current curve under a name.
- Clean icon - wipe the graph and start empty.

Create a simple sunrise-sunset program (3 points)

1. Tap **Clean** for a blank graph. The time bar is 00:00 to 24:00. Intensity is 0% to 100%.
2. **Point 1 (start):** slide the time line to lights-on, tap +, set all channels to 0% so the day starts from dark.
3. **Point 2 (peak):** slide to mid-day, tap +, set each channel (or use All) to the peak you want.
4. **Point 3 (end):** slide to lights-off, tap +, set all channels back to 0%.

5. Tap the Save icon, name the program, and save.
6. Tap **Send** (upper right) to run it.
7. Optional: open Sun & Moon Sync > Select Program and choose this program so Sync uses your curve on real sun/moon times.

Three points are enough for most tanks. You may add more if you need extra bends in the curve.

Rename or delete a saved program

- Open the program list.
- Trash icon - delete a program you no longer need. HELIUS cannot be deleted.
- Pencil icon - rename a program.

16. Expand: Clouds, Jellyfish, Lunar, Acclimation

Expand holds extra modes. Open a mode to turn it on or off and set its run time.

Modes that cannot run at the same time

- You cannot run Lunar + Clouds together.
- You cannot run Jellyfish + Acclimation together.
- The app will ask you to turn one of them off.
- Clouds also cannot run with Sun & Moon Sync.

Clouds

Clouds imitates a cloud passing over the tank: intensity falls, holds, then returns. Corals get a short rest from peak light. Clouds can run only on top of Program. It cannot be switched on as a standalone live mode.

1. Tap **Clouds**.
 2. Set start and end. Allowed window: **08:01 to 20:00**. End must be later than start. Example: 13:00 to 16:00.
- A cloud cycle starts every 15 minutes.
 - Each cycle lasts 5 minutes: 1 minute dim down to 30%, 3 minutes hold at 30%, 1 minute climb back to the program level.
 - After the end time, the light returns to the normal program with no cloud effect.

Jellyfish

Jellyfish mode is built for jellyfish tanks (spectrum and intensity).

1. Tap **Jellyfish**.
2. Set start time, end time, and brightness.
3. The mode then walks through 41 automatic channel/color steps until the end time.

Lunar (from Expand)

Use this screen when you are not using Moon Cycle inside Sun & Moon Sync - for example when Program is in charge. Many reef animals spawn on a lunar or semi-lunar rhythm.

1. Tap **Lunar**.
2. Set start and end. Suggested window: **20:00 to 08:01**.
3. Choose which channel(s) carry the moonlight.

The one-month curve is the same as Moon Cycle: 0.067% at the start of the month, +0.067% per day to 1% on day 15, then back to 0% on day 30. Elapsed Time shows how many days the moonlight has been running.

Acclimation

Acclimation raises intensity slowly so corals can adapt to a new light or a new spectrum without a sudden jump.

1. Tap **Acclimation**.
2. Set start and end. Allowed window: **08:00 to 23:00**. Suggested start: 08:00. End must be later than start.
 - The program runs for 10 days. On day 11 the light returns to Program mode.
 - Day 1: all channels at 30%.
 - Each next day adds 3%.
 - Day 10: 60%.

17. Timing (public aquariums only)

Home reef keepers can skip this chapter

Timing is meant for public venues and public aquariums that need building-hour overrides. Typical home tanks use Program or Sun & Moon Sync instead.

Timing sits under Expand. It can force the light on or off at a clock time, Sunday through Saturday. When Timing is enabled it **wins over Program**.

Example: Program would switch off at 21:00, but Timing is set to Off at 20:00. The light goes off at 20:00. If you then tap Program in the app, the light follows that new command and can run until 21:00 on the Program schedule.

1. Open Expand > Timing.
 2. Use the arrow selector to choose an action: None / On / Off / Light On Duration / Light Off Duration.
 3. Use the time selector to set the clock time or duration.
 4. Tap **Confirm**. The Timing button turns on only after an action is chosen.
- **None** - no timer. The light follows its normal schedule.
 - **On** - turn the light on at that time.
 - **Off** - turn the light off at that time.
 - **Light On Duration** - keep the light on for the duration.
 - **Light Off Duration** - keep the light off for the duration.

18. Settings

Time

- Slide Automatic Time Setting on to use network/phone time. Slide it off to set the clock by hand.
- Use the time-system switch to change 12-hour / 24-hour format.

Auto-recovery (Quick safety)

If Quick is left running, Auto-recovery returns the light to the programmed schedule after 2 hours. It is On by default.

Hardware reset when Wi-Fi is down

1. Press and hold the reset button for 4-5 seconds, then release.
2. The light continues at **80%** output so the tank is not left dark.

High temperature alarm

High temperature is usually a fan problem.

- **60 C** - one high-temperature warning.
- **65 C** - the light shuts off. Fans run at maximum.
- When temperature falls below **50 C**, the light turns back on after a 10-second delay.
- After an alarm: check that every fan spins and that fans are seated correctly (especially after an upgrade from an older fixture).

Quiet Mode and fans

Orphek iCon fans are variable-speed. Fan speed follows light intensity: higher output, faster fans; lower output, slower fans. When intensity is under 30% (typical at night), the fans stop. In a room of about 30 dB, that means no fan noise at night.

Slide **Quiet Mode** right to enable, left to disable. Quiet Mode lowers fan speed so the fixture is quieter. The light then runs about 3-5 C warmer. Use Normal when you want maximum cooling.

Sound measured at 1 m (room around 30 dB):

Light	Quiet Mode	Normal Mode
Natura iCon	34.4 to 34.8 dB	35.8 to 36.4 dB
Natura Max	37.2 to 39.2 dB	41.3 to 43.5 dB

The two numbers on each row are the low and high fan speed for that mode.

System Settings list

- **Light Information** - fixture details.
- **Offline Notification** - alert when the light goes offline.
- **Device Information** - Device ID, IP, and related data.
- **Pencil** - rename the light and add a photo.
- **Share Device** - give another account access to this one light.

- **Create a Group** - control several lights as one.
- **Add Home Screen** - shortcut on the phone home screen.
- **Check Device Network** - signal strength.
- **Remove Device** - remove the light from the account. To use it again, pair from section 7.
- **Me** - your profile, time zone, photo.
- **Third-Party Voice Service** - optional voice control.
- **Home Management** - invite household members.

19. Groups, sharing, and Home Management

Create a group

1. Open any light.
2. Go to Settings > System Settings > Create a Group.
3. Tick the lights to include.
4. Tap Save (upper right) and name the group.

Remember: in a group, Sun & Moon Sync runs only in Custom mode and Select Program is not available.

Share Device (one light)

Share Device gives another Orphek account access to one light. Both accounts must use the same data-center region (the region chosen at sign-up).

1. Select the light > Settings > System Settings > Share Device.
2. Tap Add and enter the other account. Tap More if you need to share with several people.
3. The light then appears on the other phone.

Home Management (whole home)

1. Tap Me > Home Management. Lights start in My Home. You can create another home and move lights to it.
2. Tap the arrow next to My Home.
3. Choose share by App account.
4. Tap Add a Member and enter the account. If that email/phone is not registered, the app says the account cannot be added.

5. Status shows as waiting until they join.
6. The other person opens the app, taps the home icon (upper left) or Me > Home Management, and selects the home you shared.

20. Quick reference

Task	What to do
Pair a light	Light on > reset button 4 times (flash) > Add Device within 1 minute > Wi-Fi name + password.
After firmware update	Press reset 4 times and pair again.
Sun & Moon change	Change the setting, then tap Send.
Quick left on	Returns to Program after 2 hours (Auto-recovery On).
No Wi-Fi, need light	Hold reset 4-5 seconds. Light stays at 80%.
Too hot	60 C warning 65 C shutoff back on below 50 C after 10 s. Check fans.
Device ID for support	Light > Settings > System Settings > Device Information.
App cache	Me > gear > Clear Cache.