

ORPHEK NATURA iCON MAX Installation & User Guide

Premium Reef Aquarium LED Lighting System

Manufacturer: Orphek Ltd.

Website: www.orphek.com

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Product Model: Natura iCon MAX

FCC-ID: 2BUQK-NIM01

Serial Number: Located on the product identification label.

IMPORTANT — READ BEFORE INSTALLATION

Thank you for choosing the Orphek Natura iCon MAX LED Lighting System!

The Natura iCon MAX **Installation & User Guide** is intended to be used together with the **Natura iCon MAX Safety Guide** supplied with this product.

Read the Safety Guide before installing, connecting, operating or maintaining the product.

The Safety Guide contains important information regarding:

- Electrical safety
- Installation and mounting safety
- Water and moisture precautions
- Cleaning and maintenance safety
- Storage and transport
- Injury prevention
- Regulatory and compliance information

Keep both documents for future reference.

For the latest product information, digital documentation, firmware, app information and support, visit: [**www.orphek.com**](http://www.orphek.com)

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1. ABOUT NATURA iCON MAX

The Orphek Natura iCon MAX is a premium full-spectrum LED lighting system engineered specifically for marine reef aquariums.

Combining high-performance LED technology with intelligent wireless control through the Orphek iCon App, Natura iCon MAX provides precise control of light intensity, spectrum, photoperiod, and advanced lighting functions, enabling users to create customized lighting programs for a wide variety of reef aquarium systems.

2. PRODUCT FEATURES

High-Performance LED Technology

Natura iCon MAX incorporates:

156 custom 6 W mixed-color Dual-Chip LEDs

312 individual LED chips

6 independently controllable channels

Approximately 390–740 nm spectral range

Detailed channel composition and spectral information:

(needs to be provided — final approved spectrum/channel table or QR code linking to current specification)

Intelligent iCon Control

The Orphek iCon App allows you to:

- Select pre-installed lighting programs
- Create customized lighting schedules
- Adjust overall intensity
- Adjust individual channels
- Configure photoperiods
- Access available advanced lighting functions
- Manage compatible Orphek iCon devices
- Install firmware updates

The Orphek iCon App is continuously updated as new features become available.

For the latest available functions and programming instructions, refer to the online documentation.

3. PACKAGE CONTENTS

Before installation, carefully check that all components are present and undamaged.

Your Natura iCon MAX package contains:

- ✓ Natura iCon MAX LED Lighting Fixture
- ✓ Stainless Steel Suspension Kit
- ✓ Power Supply
- ✓ Region-specific AC Power Cord
- ✓ Waterproof DC Power Cable / Connectors
- ✓ Safety Guide
- ✓ Installation & User Guide

Optional accessories are not included unless specifically stated at the time of purchase.

If any component is missing or damaged, contact Orphek Customer Support before installation.

Support: contact@orphek.com

4. PRODUCT OVERVIEW

Main Components

LED Lighting Fixture

High-performance LED lighting unit designed for marine reef aquariums.

DC Power Input

Connection point for the supplied DC power cable.

Reset Button

Used for wireless pairing and network configuration.

Mounting Points

Designated attachment points for the supplied suspension system and approved Orphek mounting accessories.

5. BEFORE INSTALLATION

Before installing Natura iCon MAX:

- ✓ Read the **Natura iCon MAX Safety Guide** supplied with the product.
- ✓ Check that all components are present and undamaged.
- ✓ Select a suitable mounting position above the aquarium.
- ✓ Confirm that the mounting system is suitable for the fixture and installation location.
- ✓ Ensure the fixture can be securely mounted before connecting power.
- ✓ Ensure adequate airflow around the fixture.
- ✓ Place the power supply in a dry, well-ventilated location.
- ✓ Ensure that the electrical outlet and power supply are suitable for the installation.
- ✓ Keep electrical connections appropriately protected from water and moisture.
- ✓ Ensure that cables cannot be pulled, pinched or placed where they may be exposed to water.

For detailed safety requirements, always follow the Safety Guide.

6. INSTALLATION

6.1 Suspension Kit

The supplied stainless steel suspension kit allows Natura iCon MAX to be suspended above the aquarium.

Step 1 — Assemble the Suspension Hardware

Assemble the suspension components according to the supplied hardware configuration.

Suspension kit maximum supported load: 12KG

Step 2 — Attach the Suspension System

Attach the suspension cables to the designated mounting points on the fixture.

Ensure all attachment points are correctly engaged and secure.

Step 3 — Position the Fixture

Position the fixture above the aquarium.

Recommended starting height:

Approximately 20 cm (8 in) above the water surface.

The final mounting height depends on aquarium dimensions, aquascape, coral requirements and lighting settings.

Step 4 — Final Inspection

Before connecting power:

- ✓ Confirm the fixture is stable.
- ✓ Confirm all mounting hardware is secure.
- ✓ Confirm the suspension system is correctly installed.
- ✓ Confirm cables are safely positioned.
- ✓ Confirm the fixture cannot fall into the aquarium.

6.2 Optional Orphek Mounting Arm

An Orphek Mounting Arm is available as an optional accessory and is not included with the standard Natura iCon MAX package.

For installation instructions, refer to the guide supplied with the mounting arm.

Mounting Arm compatibility:

Before operation:

- ✓ Confirm correct installation.
- ✓ Tighten all adjustment points.
- ✓ Confirm fixture stability.

7. ELECTRICAL CONNECTION

Read the Natura iCon MAX Safety Guide before connecting power.

Step 1 — Connect the Fixture

Connect the supplied waterproof DC cable between the Natura iCon MAX fixture and the supplied power supply.

Fixture → Power Supply

Ensure the connection is fully inserted and securely tightened.

Step 2 — Position the Power Supply

Place the power supply in a **dry, well-ventilated location**.

Do not place the power supply where it may be exposed to aquarium water, splashing or excessive moisture.

Keep all electrical connections secure.

Step 3 — Connect AC Power

Connect the supplied region-specific AC power cord to the power supply.

Connect the AC power cord to a suitable electrical outlet.

Power Supply → Electrical Outlet

When power is supplied, the fixture status indicator will operate.

Important

Do not use a damaged cable, connector, power supply or fixture.

Do not open or modify the fixture or power supply.

There are no user-serviceable components inside.

For complete electrical safety information, refer to the Safety Guide.

8. ORPHEK iCON APP

The Natura iCon MAX is controlled through the **Orphek iCon App**.

The app provides wireless control of compatible Orphek iCon devices.

Available functions may include:

- Lighting schedules
- Sunrise and sunset simulation
- Intensity control
- Individual channel control
- Advanced lighting functions
- Firmware updates
- Device management

The app is regularly updated as new iCon features become available.

[Download the App](#)

Download the official Orphek iCon App from:

Apple App Store



Google Play



Only download the application from official Orphek sources.

9. CONNECTING YOUR NATURA iCON MAX

Before beginning:

- ✓ Ensure the fixture is powered on.
- ✓ Enable Bluetooth on your mobile device.
- ✓ Ensure your Wi-Fi network is available.
- ✓ Install or update the Orphek iCon App.

Step 1 — Open the iCon App

Open the Orphek iCon App.

Create an account or sign in to your existing account.

Step 2 — Enter Pairing Mode

Press the fixture **Reset Button four times**.

The status indicator will confirm that the fixture has entered pairing mode.

Reset-button timing / sequence:

Step 3 — Add Your Fixture

Follow the instructions displayed in the Orphek iCon App.

Select your Wi-Fi network and enter the network password when requested.

Step 4 — Complete Setup

When the connection is successful, Natura iCon MAX will appear in the app.

You can now configure your lighting program and access available functions.

10. FIRST POWER-UP & CORAL ACCLIMATION

When Natura iCon MAX is installed over an existing aquarium, corals and other photosynthetic organisms may need time to adjust to the new lighting system.

This can also apply when replacing another high-quality lighting system.

Differences in:

- Light spectrum
- Light intensity
- Light distribution
- Photoperiod

may affect aquarium inhabitants.

Recommended Approach

Reduced Intensity → Gradual Increase → Observe → Adjust

Every aquarium is different.

Lighting requirements depend on factors including:

- Coral species
- Aquarium depth
- Water quality
- Aquascape structure
- Previous lighting system
- Existing photoperiod
- Coral placement

Start conservatively and adjust gradually while observing the aquarium.

Recommended acclimation program:

We recommend using the Helius program with sun-moon sync. This is our default recommendation and what we consistently suggest for optimal results.

For detailed acclimation recommendations, visit:



11. PROGRAMMING

The Orphek iCon App provides control of the Natura iCon MAX lighting program.

Depending on the current app version, users may configure:

- Sunrise and sunset
- Lighting intensity
- Individual channels
- Photoperiod
- Lighting schedules
- Advanced lighting functions
- Other features introduced through firmware and app updates

For complete programming instructions and the latest available functions:



12. RECOMMENDED MOUNTING HEIGHT

Recommended starting height:

Approximately 20 cm (8 in) above the water surface

Final mounting height depends on:

- Aquarium dimensions
- Aquarium depth
- Aquascape
- Coral placement
- Coral requirements
- Desired light distribution
- Lighting program

Always make changes gradually and observe aquarium response.

13. COVERAGE

Natura iCon MAX is designed for advanced reef aquarium applications.

Recommended coverage

Up to approximately:

120 × 60 × 60 cm

47.2 × 23.6 × 23.6 in

Actual coverage depends on:

- Aquarium shape
- Mounting height
- Aquascape
- Coral requirements
- Lighting intensity
- Lighting program

For demanding SPS-dominated aquariums, placement and intensity should be adjusted according to coral requirements.

Coverage reference / PAR information:

14. CLEANING & ROUTINE INSPECTION

Regular inspection and appropriate cleaning help maintain performance and product life.

Before cleaning or maintenance, disconnect the product from power.

Always follow the cleaning and maintenance precautions in the Safety Guide.

Inspect periodically:

- Fixture surface
- Ventilation areas
- Mounting hardware
- Cables
- Connectors
- Power supply
- Suspension system

Remove accumulated dust, salt deposits and residue using the cleaning method specified in the Safety Guide.

Approved cleaning method:

dry cotton, or cotton lightly damp with water only; wipe acrylic/exterior; no solvents

Important

Never open the fixture housing.

There are no user-serviceable components inside.

Do not use damaged equipment.

If damage is found, disconnect power and contact Orphek Support.

15. TROUBLESHOOTING

Fixture Does Not Power On

Check:

- ✓ Electrical outlet connection
- ✓ AC power cord connection

- ✓ Power supply connection
- ✓ DC cable connection
- ✓ Status indicator

If the fixture still does not operate, disconnect power and contact Orphek Support.

Fixture Does Not Connect to the App

Check:

- ✓ Mobile device Bluetooth
- ✓ Wi-Fi availability
- ✓ Correct Wi-Fi password
- ✓ Fixture pairing mode
- ✓ Orphek iCon App version

If necessary:

1. Restart the pairing procedure.
2. Re-enter pairing mode.
3. Repeat the setup process.

Factory reset procedure:

Long press the reset button for 4 - 5 seconds, then release it. The light will flash and then remain on. Please note that performing a factory reset will remove the custom settings.

Fixture Disconnects From the Network

Possible causes include:

- Wi-Fi signal limitations
- Router configuration
- Temporary network interruption
- Network changes

Check the network connection and restore the connection through the Orphek iCon App.

Advanced network troubleshooting:

- 1. Re-add the light by tapping the "+" button in the top right corner.
- 2. If the issue persists, try the pairing process by pressing the reset button four times. The light will flash to indicate it is in pairing mode.
- 3. If it still does not connect, reboot your phone and clear the app cache (go to Me > tap the gear icon in the top right corner > select Clear Cache). Then, try the pairing process again.
- 4. If the problem continues, try connecting to a different Wi-Fi network.
- 5. If none of the above steps resolve the issue, please send an email to contact@orphek.com for further assistance.

16. TECHNICAL SPECIFICATIONS

16.1 LED Fixture

Parameter	Specification
Model	Natura iCon MAX
LED Configuration	156 custom 6 W mixed-color Dual-Chip LEDs
Total LED Chips	312
Control Channels	6 independently controllable channels
Spectral Range	Approximately 390–740 nm
Recommended Mounting Height	Approximately 20 cm (8 in)
Recommended Coverage	Up to approximately 120 × 60 × 60 cm
Dimensions	680 × 210 × 46 mm / 26.77 × 8.27 × 1.81 in

16.2 Electrical

Parameter	Specification
Typical Power Consumption	280–290 W, depending on lighting settings
AC Input Voltage	100-240V, 277V for North America only.
AC Frequency	50/60 Hz
Power Factor	0.973 typical
DC Output Voltage	48 VDC
DC Output Current	6.6 A
Power Supply	Mean Well HLG-320A-48A
Power Supply IP Rating	IP65
AC Power Cord	Region-specific cord supplied for country of sale

IMPORTANT: The specification recorded in the certification for Natura Max is 100-240V. The power supply also supports 277VAC, which is commonly required in regions such as North America.

16.3 Wireless Connectivity

Parameter	Specification
Wireless Communication	Wi-Fi and Bluetooth
Mobile Application	Orphek iCon App
Mobile Compatibility	iOS and Android devices

Parameter	Specification
Wireless Module	WBR1-IPEX
Wireless Frequency/Bands	2400MHz-2483.5MHz
Wireless Regulatory IDs	CE, FCC, IC, TELEC, KC, BQB, RoHs, ANATEL

16.4 Physical

Parameter	Specification
Fixture Dimensions	680 × 210 × 46 mm
Fixture Weight	6.3 kg / 13.89 lb
Power Supply Weight	1.8 kg / 3.97 lb
Fixture Materials	Silver anodized aluminum alloy top cover and stainless-steel grill

16.5 Cable Lengths

Cable	Length
Fixture-to-Power Supply Cable	3 m / 118.11 in
AC Power Cord	Region-specific

16.6 Environmental

Parameter	Specification
Installation Environment	Indoor use only
Fixture Operating Temperature	0°C to 40°C / 32°F to 104°F
Power Supply Operating Temperature	Tcase= -40 ~ +90°C
Installation Location	Dry indoor location with adequate ventilation
Fixture IP Rating	IP54
Power Supply IP Rating	IP65

17. WARRANTY

The Orphek Natura iCon MAX is covered by a limited manufacturer warranty.

Warranty duration, conditions and regional terms may vary according to the country of purchase and applicable local law.

Warranty period:

Warranty terms URL:



The warranty does not cover damage resulting from, where permitted by applicable law:

- Improper installation
- Misuse
- Operation outside specified conditions
- Unauthorized modification
- Use of non-approved accessories
- Accidental damage
- Failure to follow the supplied instructions

This does not affect any mandatory consumer rights or statutory warranties applicable in the country of purchase.

For warranty assistance, retain:

- Proof of purchase
- Product model
- Serial number
- Purchase date

18. DOCUMENTATION & SUPPORT

The latest product information is available online.

Scan the QR code to access:

- ✓ Complete User Manual
- ✓ Installation & User Guide
- ✓ Safety Guide
- ✓ Technical Specifications
- ✓ Firmware Updates

- ✓ Orphek iCon App Downloads
- ✓ Tutorials
- ✓ Frequently Asked Questions
- ✓ Product Support



Dedicated Natura iCon MAX support page:
contact@orphek.com

Website:
www.orphek.com

Customer Support:
contact@orphek.com

When contacting Orphek Support, please provide:

- Product model
- Serial number
- Purchase information
- Description of the issue
- Screenshots, photos or videos where applicable

Providing complete information helps our support team assist you more efficiently.

FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.