Radion G4
Product Information
Radion Reinvented

The newest generation of Radions radically re-define the simplicity, beauty and power of the LED light. The best aquarium LED light in the world just got better. Simply put, the G4 Radion the best thing since the G3 Radion.
More Radion

More Color
The Radion G4 features a whole new cluster. The re-balancing of proven colors combined with the addition of warm white and violet takes color rendition for your corals to the next level. Reconfiguration of the clusters compliments the all-new HEI lenses to deliver balanced color mixing better than ever before.

More Coverage
The HEI lenses on the G4 deliver more usable light area. This is accomplished by spreading light that would normally create an area of high PAR directly under the LED fixture and redirecting it to a significantly wider optimal area of intensity for coral health and growth. This will reduce shadowing in the aquarium as well as increase usable space for coral at all depths.

More Civilized
EcoTech aims to produce the most minimally intrusive equipment available. The G4 continues to boast Radion’s sleek styling and small footprint but now also features greatly reduced operational noise. To achieve this the G4 incorporates a completely redesigned heatsink with new geometry and micro-fins.

More Control
More colors means more channels. The G4, like its predecessors, will be instantly recognized by EcoSmart Live and can be added to an existing or new ESL account either through USB or with the Reeflink. *Channel control is updated to match the new clusters and includes Violet and Warm White.

*G4 PRO models only
XR15w G4 Pro

Cluster
1  2  3  4  5  6  7  8
Channel
Color  Cool White  Deep Blue  Blue  Green  Photo Red  UV  Violet  Warm White
LEDs
4  4  4  2  2  4  2  1
Spectrum

XR30w G4

Cluster
1  2  3  4  5  6
Channel
Color  Cool White  Deep Blue  Blue  Green  Photo Red  UV
LEDs
8  6  8  4  4  4
Spectrum

XR30w G4 Pro

Cluster
1  2  3  4  5  6  7  8
Channel
Color  Cool White  Deep Blue  Blue  Green  Photo Red  UV  Violet  Warm White
LEDs
8  8  8  4  4  8  4  2
Spectrum
Generation 4 includes the most sophisticated lens design available. HEI lenses deliver the light uniformity and color mixing of a halide T5 combo without sacrificing the power and efficiency of the LEDs.

Color

The G4 utilizes the most advanced top-bin diodes offered by CREE, OSRAM and Semiled to produce mind-blowing color rendition.

The evolution of color in LED fixtures started with the original full-spectrum Radion. The G4 builds on this impressive legacy by further advancing both the available spectrum and channel control.

See color in a whole new light.
HEI Optics revolutionize LED output by providing unprecedented light distribution and spread. This lens geometry re-distributes the unnecessarily high par peaks that are otherwise present under the fixture.

How impressive is the new HEI lens design? Just compare the previous generations of Radion lenses, which utilized the best optical technologies of the time. Observing the respective PAR distribution of the reflector and TIR lenses, it is immediately apparent that HEI Optics offer a significant improvement from the perspective of providing usable coverage.
Green-Yellow represents optimal par levels for SPS coral. Readings ranging from 300 to 400 par.
The G4 heatsink has been designed from the ground up to maximize surface area and allow for superior heat dispersion. Multiple channels provide unrestricted airflow. With such effective heat management, the need to actively cool the LED is greatly reduced and with it airflow and fan noise.
Specifications

XR15w G4 Pro

**INPUT:** 100-240VAC, 2.5A; 50/60Hz  
**VARIABLE USAGE (MAX):** 95w

All of the spectrum, half of the intensity. Perfect for the majority of aquariums 24-30 inches wide and deep.

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XR30w G4

**INPUT:** 100-240VAC, 2.0A; 50/60Hz  
**VARIABLE USAGE (MAX):** 150w

Powerful, full color and endlessly controllable, the Radi-on stands alone.

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XR30w G4 Pro

**INPUT:** 100-240VAC, 3.5A; 50/60Hz  
**VARIABLE USAGE (MAX):** 190w

The industry standard for high-output, comprehensive spectrum and unprecedented performance.
Clusters

Cooling

Control

HEI stands for Hemispherically Edge Illuminating, a complex lens technology with a simple purpose: Wider more even spread with superior color mixing.

Optimum LED performance requires active cooling; the Radion G4 uses a proven computer controlled IP55 rated fan.

The G4 features water resistant tactile buttons and full integration with EcoSmart Live. Generation 4 includes up to 7 discreet color channels.

*G4 PRO models only
Clusters

G4 includes the newest top bin LEDs from the industry leading diode manufacturers, carefully chosen for optimum color efficiency and reliability.

Heatsink

Employing cutting edge techniques the G4 heat sink includes specialized geometry and micro-fins for maximum heat dissipation and efficiency.

Mounting

Choose from Single or Multi tank, mounting and hanging options. Custom designed to be as simple and beautiful as the Radion itself.
Single Arm RMS

Two specialized kits designed for XR15 and XR30 model Radions. Each kit contains everything needed to tank-mount a Radion light on almost any standard or rimless tank.

Each kit contains multiple sliding rails and a rotatable x-bracket, allowing you to easily position your Radion precisely where you need it.

Multi-Light RMS

Multi-Light RMS Tank Mount
A. RMS Track
B. RMS Arm
C. RMS Slides
The multi-light RMS offers a customizable multi-light mount solution for Radion XR30 and Radion XR15 lights. The multi-light RMS system features:

- Built-in cable management
- Compatibility with rimmed, rimless and euro-braced tanks
- Rigid yet light-weight construction
- Anodized aluminum finish
- Slide mounts for horizontal and rotational adjustment
- Optimal mounting for Radions at approximately 7 inches 18 cm above glass
EcoSmart Live is the cloud-based equipment command center from EcoTech Marine. Control and customize your Radion LED lights and VorTech propeller pumps any time, anywhere. All you need is an Internet connection and a web browser (Chrome, Firefox or Safari). And because it’s all stored in the cloud, your connection is always secure and your data is backed up to save your valuable custom programming information.

By all means, let the power go to your head.
Control your equipment anywhere, any time.

No matter where life takes you, your tank is right there with you. EcoSmart Live is cloud-based, so you can access it through a web browser on any computer or tablet with an Internet connection.

Enjoy the peace of mind that your reef and its inhabitants are cared for and safe. (And you can say goodbye to installing software or staying on top of updates. New features are installed automatically.)

Customize the way your equipment operates.

How much control you take is up to you. For example, use one of the many pre-defined Radion lighting modes—or create your own special modes by controlling each color individually. You can even change your Radion light’s intensity during the day and adjust lunar phases at night.

Take EcoSmart Live to the next level.

The ReefLink is not necessary to access EcoSmart Live but you’ll love the flexibility and freedom it provides. By eliminating the need to connect your Radion by USB to a Mac or PC, ReefLink keeps your aquarium always connected, always accessible. With a ReefLink, you can use an iPhone, iPad and Android smart phones and tablets to control your Radion lights.
FAQ

When will the Radion G4 product line be available to purchase?

August 2016.

Is the Radion G4 really the best aquarium light ever?

Yes. Yes it is.

What's new in Generation 4?

Radions have successfully been growing coral since the original Radion. Over time the Radion product has evolved, increasing in range of spectrum, output and coverage along with aesthetic, control and operational improvements. The Generation 4 offers a further-tuned spectrum, more even color mixing and superior coverage.

The G4 provides more coverage than the previous Radion models?

Yes. Thanks to the new HEI Optics and LED placement the G4 provides more than twice the optimal PAR zone as compared to previous Radion generations.

How do HEI Optics work?

The geometry of the HEI Optics accomplishes two things. Light that would normally be lost tangentially to the fixture is redirected downwards while high intensity output is distributed outwards. The net result is much larger and more even PAR distribution for significantly more usable lighting area. PAR testing shows the increase in this area to be substantial.

Will all of the existing Radion mounting accessories work with Generation 4 Radions?

Yes. All RMS and classic mounting solutions such as the hanging kit and classic rails will work with G4 Radions.

What is the warranty on Generation 4 Radions?

All EcoTech products carry a 1-year parts and labor warranty in the US and the appropriate variation of that in international markets.
Will the Generation 4 Radion be compatible with EcoSmart Live and my ReefLink?

Yes. The setup and programming of Generation 4 Radions are exactly the same as previous model Radions. Additional control functionality will be available as appropriate for Gen 4 lights.

Can the output of a Generation 4 Radions be matched to Generation 3 Radions?

Yes. Although this may require calibration and, depending on level of match, additional adjustment in EcoSmart Live.

Will there be an upgrade path for previous-generation Radion owners to G4?

No. Unfortunately, the technical improvements in the G4 required the use of a new heat-sink, clusters, lenses and driver board. Because of these changes the shared parts between the G4 and previous-model Radions are minimal.

Can the HEI lenses be used on previous-generation Radions?

No. The HEI lenses will not fit on prior Radion models because the diode placement on G4 clusters is different and because the heat sink and cluster position relative to the baseplate of the Radion is different.

How long will the G3 and G3PRO Radions be supported?

EcoTech will continue to support G3-version Radions for a minimum of 24 months after the production change to G4.

Will the G3 and G3 Pro upgrade kits still be available for Radion generation 1 and 2 owners?

Yes. We will continue to offer G3 and G3 Pro upgrade kits for foreseeable future.