

# User Manual

## Microtope LED Strip- English Tropical LED Light

### Tropical High output LED Light 24W

call-out1: Wifi-controlled

call-out2: My Exo Terra APP

call-out3: With UVA emitting LED's

call-out4: Programmable 24-hour Light Cycle with Sunrise and Sunset

call-out5: Monitor and control your lights from anywhere in the World!

call-out6: IP54 rated waterproof housing

- Ideal light source for bio-active planted terrariums
- HTE LEDs for extreme high light output and enhanced penetration
- Stimulates live plant and moss growth
- Improves the animal's perception of its environment
- Programmable 24-hour Light Cycle with Sunrise and Sunset
- Seven LED color types, including UVA and 12000K bright white LED's
- Fully customisable light spectrum through individually adjustable LEDs
- Can be operated manually or Wifi-controlled via the easy-to-use My Exo Terra App
- Monitor and control your lights from anywhere in the World
- Touch switch with dimming function
- Waterproof housing rated IP54 for use in humid environments

The Wifi-controlled Exo Terra Tropical LED Light is an ideal light source for bio-active planted terrariums. The Tropical LED Light consists of 7 different band wave High Thermal Efficiency LEDs, including UVA and 12000K bright white LEDs, for extreme high light output and enhanced penetration. Its high visible light levels, in the correct spectrum, contribute to the physiological wellbeing of your reptiles, amphibians and invertebrates and lets them experience and perceive the colors in their environment more naturally. The UVA LEDs also contribute to the animal's overall wellbeing and stimulate appetite, activity and reproductive behavior.

The high light intensity and enhanced penetration ensures that the light reaches all layers of vegetation, even the bottom layer, resulting in sustained lush plant growth. Orchids, Bromeliads, Tillandsias (air plants), carnivorous plants, mosses and lichen all thrive under the Exo Terra Tropical LED Light's strong Photosynthetic Active Radiation.

The Wifi-controlled Tropical LED Light can be operated both manually or via the My Exo Terra app on your mobile device. The easy-to-use My Exo Terra App allows you to fully customise the light spectrum, sunrise & sunset and monitor and adjust these, according to the needs of the animals and plants housed in your terrarium, from anywhere in the world via your smartphone. Replicate light spectrums of specific seasons and unique climates to stimulate appetite and breeding behavior of your animals, enhance bud development and flowering in your plants, etc... .

The Exo Terra Tropical LED Light connects to your 2.4g wireless network without the need for an additional hub.

The My Exo Terra App lets you monitor, control and program your Exo Terra smart terrarium devices via your Android or iOS device. It allows you to adjust your lights, temperatures, humidifiers, water-levels, camera's (and more...) for multiple terrariums or habitats, creating natural environments and set the right conditions with a tap on your smartphone. You can even use it to monitor & control your habitats remotely from anywhere in the world as long as the device is connected to a 2.4g wireless network. Download the FREE My Exo Terra App on your mobile device and connect your Exo Terra smart devices to program and control the environment in your terrariums.

For instance; at dawn you can set the My Exo Terra App to simulate sunrise, turn on your UV lights at a certain time and higher your temperature over the course of the day. At dusk, you can reverse the conditions by reducing the temperature, turn off the UV lights and simulate sunset. If you have a wifi controlled Monsoon PRO hooked up, you can set a spray program at various times with various durations. You can even implement a seasonal Monsoon setting that will replicate the various rainy seasons during the year. By using the wifi controlled Humidifier (PRO?) you can regulate a daily humidity fluctuation as well as a seasonal fluctuation, similar to the humidity your animals and plants experience in their environment.

The Tropical LED Light features 7 unique band waves for optimal spectrum results:

390nm  
400nm  
460nm  
630nm  
730nm  
4000K  
12000K

The Tropical LED Light 24W generates 1480lm with a max of 29730 Lux and a PAR of 530!

The Tropical LED Light 33W generates 2150lm with a max of 31700 Lux and a PAR of 585!

The Tropical LED Light 49W generates 2960lm with a max of 32100 Lux and a PAR of 625!

A specifically engineered aluminum shell offers increased heat transfer resulting in a longer LED lifetime of 50.000 hours

The Tropical LED Light 24W (PT4251) conveniently fits on all Natural Terrarium Small versions.

The Tropical LED Light 33W (PT4252) conveniently fits on all Natural Terrarium Medium versions. By using the (included) spacers, the Tropical LED Light 32W (PT4252) also fits on 2 adjacent Natural Terrarium Mini versions.

The Tropical LED Light 49W (PT4253) conveniently fits on all Natural Terrarium Large versions. By using the (included) spacers, the Tropical LED Light 48W also fits on 2 adjacent Natural Terrarium Small versions, 1 Terrarium Medium and 1 adjacent Natural Terrarium Small or 3 adjacent Natural Terrarium Mini versions.

QR-code: Tropical LED Light

QR-code My Exo Terra App

### **Pet care fixture for use with Reptiles, Amphibians and Invertebrates only!**

PT4251 – Tropical High output LED Light 24W / 45cm – 18" / 126 LEDs

PT4252 – Tropical High output LED Light 33W / 60cm – 24" / 159 LEDs

PT4253 – Tropical High output LED Light 49W / 90cm – 36" / 222 LEDs

Touch switch operation: ON/DIM (touch-and-hold)/BLUE/OFF

### **IMPORTANT SAFETY INSTRUCTIONS**

**WARNING:** To guard against injury, basic precautions should be observed, including the following:

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS** and all the important notices on the product before using. Failure to do so may result in personal injury or damage to the product.

**DANGER** – To avoid possible electrical shock, special care should be taken since water is/may be employed in the use of this product. For each of the following situations, do not attempt repairs yourself, return the product to an authorized service facility for service if it is still under warranty or discard the product:

1. Carefully examine the appliance after installation.
2. The appliance is only to be used with the power supply unit provided with the appliance. The appliance must only be supplied at safety extra low voltage corresponding to the marking on the appliance. The power supply voltage must be the same as the voltage rated on the product. If the supply voltage does not match the voltage mentioned on the rating label, please do not use the product!
3. Do not operate the appliance if it has a damaged electrical cord or power adaptor, or if it is malfunctioning or if it is dropped or damaged in any manner.
4. The appliance should not be plugged in if there is water on parts not intended to be wet. **If the appliance or any part of it falls into the water DO NOT reach for it. First unplug the unit before retrieving.**
5. To avoid the possibility of the appliance plug or electrical socket getting wet, position the unit to one side of a wall-mounted socket to prevent water from dripping onto the socket or plug. A "drip-loop" should be arranged. The "drip loop" is that part of the cord below the level of the socket, or the connector if an extension cord is used, to prevent water from traveling along the cord and coming into contact with the socket. If the plug or socket does get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for the presence of water in the socket.
6. Make sure the appliance is mounted correctly and securely positioned on the terrarium before operating the appliance.

6. **CAUTION** – Always unplug or disconnect the appliance from the outlet before putting on or taking off parts and while the equipment is being installed, maintained or handled. Never yank the cord to pull the power adaptor from the outlet. Grasp the power adaptor body and pull to disconnect. Always unplug an appliance from an outlet when not in use. Never lift this product by the supply cord.

7. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

8. Do not use this appliance for other than its intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.

9. Do not install or store the appliance where it will be exposed to temperatures below freezing. Do not expose the unit to direct sunlight.

10. If an extension cord is necessary, ensure the connection is watertight and dust proof. A cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled. The connection should be carried out by a qualified electrical installer.

11. For INDOOR HOUSEHOLD USE ONLY, NOT for commercial use. DO NOT IMMERSE.

#### **SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

**Only close adherence to these installation, electrical and maintenance guidelines will ensure the safe and efficient use of this appliance.**

#### **INSTALLATION of the Tropical LED Light 24W (PT4251)**

Please verify that all components of the light fixture are undamaged before putting it into operation. Before any kind of maintenance, always disconnect electrical supply of the light fixture.

1. Unpack the Tropical High output LED Light and verify that all components of the light fixture are undamaged before putting it into operation.

2. a) For the Exo Terra Natural Terrarium Small use the end cap with the protruding tab on the side (A), NOT the one with the tab in the middle (B). Place both endcaps (A) on the LED fixture with the protruding tab toward the inside (see image xxx on page xxx). Position the light fixture on your Exo Terra Natural Terrarium Small so that the protruding tab leans against the inside of the terrarium rim to secure the fixture (see image xxx on page xxx).

b) For the Exo Terra Frog Terrarium use the end cap with the protruding tab in the middle (B) NOT on the side (A). Place both endcaps (B) on the LED fixture. Position the light fixture on your Exo Terra Frog Terrarium so that the protruding tab is inserted between the terrarium outer rim and the top cover to secure the fixture (see image xxx on page xxx).

3. Make sure the light fixture is mounted correctly and securely positioned on the terrarium before operating the appliance.

4. Connect the connector of the power adaptor to the connector of the fixture. (see image XXX on page XXX)

5. Connect the power adaptor to the wall receptacle.

For installation on other terrariums, please make sure that the protruding tab leans against the inside of the terrarium rim to secure the fixture.

### **INSTALLATION of the Tropical LED Light 33W (PT4252)**

Please verify that all components of the light fixture are undamaged before putting it into operation. Before any kind of maintenance, always disconnect electrical supply of the light fixture.

1. Unpack the Tropical High output LED Light and verify that all components of the light fixture are undamaged before putting it into operation.
2. a) For the Exo Terra Natural Terrarium Medium use the end cap with the protruding tab on the side (A). Place both endcaps (A) on the LED fixture with the protruding tab toward the inside (see image xxx on page xxx). Position the light fixture on your Exo Terra Natural Terrarium Medium so that the protruding tab leans against the inside of the terrarium rim to secure the fixture (see image xxx on page xxx).
- b) For use with 2 adjacent Exo Terra Natural Terrarium Mini use the end cap with the protruding tab on the side (A) together with a thin adapter (C) on each side (see image xxx on page xxx). Place both endcaps (A) and thin adapters (C) on the LED fixture with the protruding tab toward the inside (see image xxx on page xxx). Position the light fixture on your 2 x Exo Terra Natural Terrarium Mini so that the protruding tab leans against the inside of the terrarium rim to secure the fixture (see image xxx on page xxx).
3. Make sure the light fixture is mounted correctly and securely positioned on the terrarium before operating the appliance.
4. Connect the connector of the power adaptor to the connector of the fixture. (see image XXX on page XXX)
5. Connect the power adaptor to the wall receptacle.

For installation on other terrariums, please make sure that the protruding tab leans against the inside of the terrarium rim to secure the fixture.

### **INSTALLATION of the Tropical LED Light 49W (PT4253)**

Please verify that all components of the light fixture are undamaged before putting it into operation. Before any kind of maintenance, always disconnect electrical supply of the light fixture.

1. Unpack the Tropical High output LED Light and verify that all components of the light fixture are undamaged before putting it into operation.
- a) For the Exo Terra Natural Terrarium Large use the end cap with the protruding tab on the side (A). Place both endcaps (A) on the LED fixture with the protruding tab toward the inside (see image xxx on page xxx). Position the light fixture on your Exo Terra Natural Terrarium Large so that the protruding tab leans against the inside of the terrarium rim to secure the fixture (see image xxx on page xxx).
- b) For use with 2 adjacent Exo Terra Natural Terrarium Small use the end cap with the protruding tab on the side (A) together with the thin adapter (C) on each side (see image xxx on page xxx). Place both endcaps (A) and thin adapters (C) on the LED fixture with the protruding tab toward the inside (see image xxx on page xxx). Position the light fixture

on your 2 x Exo Terra Natural Terrarium Small so that the protruding tab leans against the inside of the terrarium rim to secure the fixture (see image xxx on page xxx).

c) For use with 1 Exo Terra Natural Terrarium Small adjacent to 1 Exo Terra Natural Terrarium Mini use the end cap with the protruding tab on the side (A) together with the thin adapter (C) on each side (see image xxx on page xxx). Place both endcaps (A) and thin adapters (C) on the LED fixture with the protruding tab toward the inside (see image xxx on page xxx). Position the light fixture on your 2 x Exo Terra Natural Terrariums so that the protruding tab leans against the inside of the terrarium rim to secure the fixture (see image xxx on page xxx).

d) For use with 3 adjacent Exo Terra Natural Terrarium Mini use the end cap with the protruding tab on the side (A) together with the thick adapter (D) on each side (see image xxx on page xxx). Place both endcaps (A) and thick adapters (D) on the LED fixture with the protruding tab toward the inside (see image xxx on page xxx). Position the light fixture on your 3 x Exo Terra Natural Terrariums so that the protruding tab leans against the inside of the terrarium rim to secure the fixture (see image xxx on page xxx).

3. Make sure the light fixture is mounted correctly and securely positioned on the terrarium before operating the appliance.

4. Connect the connector of the power adaptor to the connector of the fixture. (see image XXX on page XXX)

5. Connect the power adaptor to the wall receptacle.

For installation on other terrariums, please make sure that the protruding tab leans against the inside of the terrarium rim to secure the fixture.

## **OPERATING INSTRUCTIONS**

### ***For Manual Use (soft-touch switch):***

1. Once the light fixture is connected to the power outlet, the ON/OFF button will light up RED but the LEDs are OFF.

2. To switch on the LED Light Fixture in daytime mode, gently tap the ON/OFF button once. The ON/OFF button will turn WHITE, and the fixture will light up.

3. To increase the daytime light output, gently touch-and-hold the ON/OFF button until the desired strength has been reached. To adjust again, touch-and-hold the ON/OFF button again and the light output will increase until maximum.

4. To decrease the light output, gently touch-and-hold the ON/OFF button again, and the light output will decrease, until the desired strength has been reached.

5. The last light output setting will be stored when the light fixture is switched OFF, and used again once the light fixture is restarted.

6. To switch from daytime mode to nighttime mode, gently tap the ON/OFF button once again and the blue nighttime LEDs will light up. The ON/OFF button will turn BLUE.

7. To increase the nighttime LED output, gently touch-and-hold the ON/OFF button until the desired strength has been reached. To adjust again, touch-and-hold the ON/OFF button again and the nighttime LED output will increase until maximum.

8. To decrease the nighttime LED output, gently touch-and-hold the ON/OFF button again, and the nighttime LED output will decrease, until the desired strength has been reached.

9. The last nighttime LED output setting will be stored when the light fixture is switched OFF, and used again once the light fixture is restarted.

***For use with the WIFI controlled My Exo Terra APP:***

Within the Google Play Store (Android users) or App Store (iOS users), search for “My Exo Terra APP” and install the free app on your phone.

1. Tap the ON/OFF button once and the light fixture will light up. The ON/OFF button will light up WHITE.
2. Tap the ON/OFF button once again and the blue nighttime LEDs will light up. The ON/OFF button will turn BLUE.
3. Tap the ON/OFF button once and the ON/OFF button will light up GREEN while the blue nighttime LEDs remain on.
4. Gently touch-and-hold the ON/OFF button until the GREEN ON/OFF button starts blinking.
5. While the GREEN ON/OFF button is blinking, you can pair the light fixture with the My Exo Terra APP on your phone.

**MAINTENANCE**

For maximum LED performance, it is recommended that the fixture and the LED lens be cleaned on a regular basis. Unplug the transformer prior to cleaning the light fixture and remove it from the terrarium. Use both hands when manipulating this appliance. Wipe exposed surfaces carefully with a damp cloth to remove any dust or mineral deposits that may collect over time. Do not use detergents or harsh cleaners as it can damage the light fixture. Make sure all surfaces are dry before re-connecting the transformer to the power source.

**BASIC TROUBLESHOOTING:**

If the light fixture does not light up when you press the ON/OFF button, please check the following:

1. Ensure that all plugs and wires are firmly connected:
  - a. Check the connection from the fixture to the power adaptor.
  - b. Check the connection from the power adaptor to the wall receptacle.

**USA IM ONLY!!!**

**GUARANTEE**

This unit is guaranteed for defects in material or workmanship for a period of 1 year from date of purchase. This guarantee is valid with proof of purchase only. The guarantee is limited to repair or replacement only and does not cover consequential loss, loss or damage to livestock and personal property or damage to animate or inanimate objects, irrespective of the cause thereof. This guarantee is valid only under normal operating conditions for which the unit is intended. It excludes any damage caused by unreasonable use, negligence, improper installation, tampering, abuse or commercial use. The warranty does not cover wear and tear, breakage of glass or parts which have not been adequately or correctly maintained. THIS DOES NOT AFFECT YOUR STATUTORY RIGHTS.

**SERVICE**

If you have any problems or questions about the operation of this product, please let us try to help you before you return the product to your dealer. Most problems can be handled promptly with a phone call. When you call (e-mail or write), please have all relevant information such as model number and/or part numbers available, as well as the nature of the problem. Please ensure that all maintenance instructions have been adhered to before returning the product to your retailer. Distribution and Customer Service:

**Canada:**

Rolf C. Hagen Inc.  
20500 Trans-Canada Hwy  
Baie-D'Urfé QC, H9X 0A2  
Toll Free Number 1-800-55HAGEN (1-800-554-2436)  
Between 9:00 am and 4:30 pm (Eastern Standard Time)  
<http://faq.hagencrm.com/?en>

**U.S.A.:**

Rolf C. Hagen (U.S.A.) Corp.  
305 Forbes Blvd, Mansfield, MA 02048  
Toll Free Number 1-800-724-2436  
Between 9:00 am and 5:00 pm (Eastern Standard Time)  
mail to: [customer.service-usa@rchagen.com](mailto:customer.service-usa@rchagen.com)  
**For general information on our whole product range, explore our websites at: [www.exo-terra.com](http://www.exo-terra.com) or [www.hagen.com](http://www.hagen.com)**

**EU IM ONLY!!!****GUARANTEE**

This product is guaranteed for defective parts and workmanship for a period of 2 years from the date of purchase. This guarantee is valid with proof of purchase only. The guarantee is limited to repair or replacement only and does not cover consequential loss, loss or damage to livestock and personal property or damage to animate or inanimate objects, irrespective of the cause thereof. This guarantee is valid only under normal operating conditions for which the unit is intended. It excludes any damage caused by unreasonable use, negligence, improper installation, tampering, abuse or commercial use. The warranty does not cover wear and tear, breakage of glass or parts which have not been adequately or correctly maintained. THIS DOES NOT AFFECT YOUR STATUTORY RIGHTS.

**RECYCLING** (include wheelie bin logo)

This item bears the selective sorting symbol for waste electronic and electrical equipment (WEEE). This means that the product must be handled pursuant to European Directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. For further information please contact your local or regional authorities. Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.

**SERVICE**

If you have any problem or question about the operation of this product, please consult your Exo Terra® specialist retailer in the first instance. Most problems can be resolved in store, but in the unlikely event it cannot, please return the unit with a valid proof of purchase to the retailer for a replacement under the two-year warranty. When you call (e-mail or write) our Customer Service Department, please have all relevant information such as model number and/or part numbers available, as well as the nature of the problem. Distribution and Customer Service:

**U.K.:**

Rolf C. Hagen (UK) Ltd.  
California Dr. Whitwood Industrial Estate  
Castleford, West Yorkshire WF10 5QH  
mail to: <http://faq.hagencrm.com/?uk>



Helpline Number 01977 521015 (Between 9:00 AM and 5:00 PM, Monday to Thursday and 9:00 AM and 4:00 PM on Friday – excluding Bank Holidays)

**Germany:**

HAGEN Deutschland GmbH & Co. KG, Lehmweg 99-105, 25488 Holm

Service-Hotline: +49 (0) 4103 / 960-2000 (Montag – Freitag von 9:00 – 16:00 Uhr)

mail to: kundenservice@rchagen.com

**Spain:**

Rolf C Hagen España, S.A., Avda de Beniparrell 11 y 13, P.I. L'Alteró, 46460 Silla (Valencia)

mail to: info@hagen.es

**Malaysia:**

Rolf C.Hagen (Sea) Sdn.Bhd.

Lot 14A, Jalan 3A, Kawasan Perusahaan

Cheras Jaya, Balakong 43200 Cheras,

Selangor Darul Ehsan, Malaysia.

Tel: 603-9074 2388

Fax: 603-9074 2389

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**For general information on our whole product range, explore our websites at: [www.exo-terra.com](http://www.exo-terra.com) or [www.hagen.com](http://www.hagen.com)**

## **FCC Statement**

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.

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.