



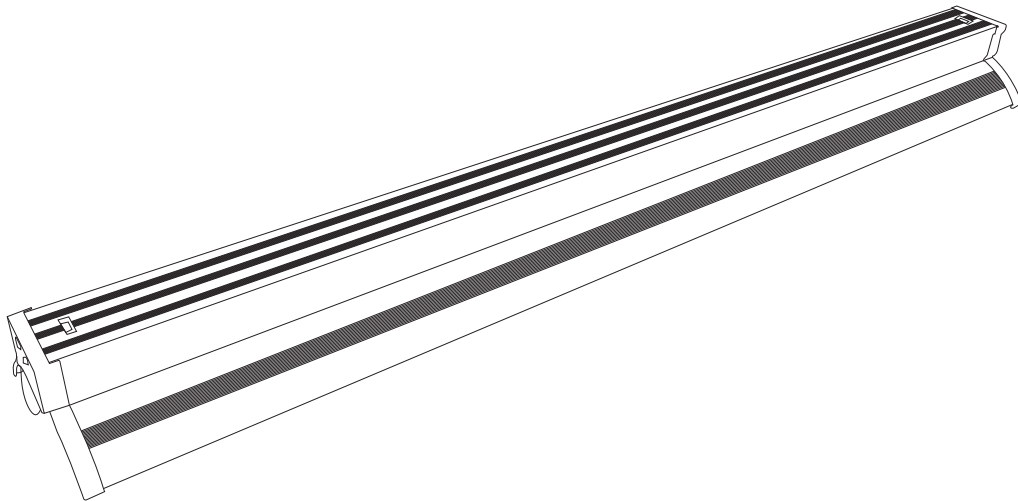
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HZ036 USER MANUAL

Hygger zoo HO UVB LED Reptile Light Fixture



The Hygger zoo HO UVB LED Reptile Light Fixture is specifically designed for reptiles, simulating the UVB and UVA radiation found in natural sunlight. It provides UVB and UVA light sources indoors for pet reptiles such as lizards and tortoises, promoting the synthesis of vitamin D3. This helps convert the calcium obtained from their food and regulates their internal metabolism, ensuring the maintenance of normal physiological activities for these reptiles.

1. PRODUCT SPECIFICATIONS

Input Voltage: AC100-240V (Adapter) DC12V (Light fixture)

Power: 10W (12"); 18W (22")

Light Source: LED Lamp Beads

Operating Temperature: - 20°C to 80°C

Service Life: 12000 hours

Spectrum: UVB+ UVA+ Visible light

White Bead Color Temperature: 4500K

Suitable Pets: Bearded Dragons, Chameleons, Tortoises, Turtles, Snakes, Frogs, Caecilians, etc.

2. PRODUCT FEATURES

1.The scientifically calibrated balance of UVB, UVA2, and UVA1 not only achieves exceptional color rendering for reptiles' visual spectrum but also ensures accurate conspecific identification, foraging behavior, and spatial navigation.

2.Equipped with optimally balanced UVA1 irradiation, the HO UVB LED Reptile Light Fixture effectively prevents over-synthesis of pre-vitamin D3, substantially mitigating the risk of vitamin D3 hypervitaminosis in captive reptiles.

3.Warm Spectrum Visible Light: Utilizing 4500K warm-white LED chips, this light replicates the solar spectral temperature occurring naturally between 9-10 AM or 3-4 PM—the peak basking window for most reptilian species.

4.Maximum Electrical Safety: The LED bulbs operate at low voltage and consume less power. The circuit board is designed to withstand damage, ensuring maximum stability and safety during operation.

3. INSTALLATION INSTRUCTIONS

Part 1 Installation Precautions

1. Inspect the light fixture and tube for any damage. Ensure that all preparatory operations (e.g., connector installation) are performed only when the power is disconnected.

2.Ensuring a proper light gradient within the reptile enclosure allows reptiles to choose their preferred level freely. The 12-inch HO UVB LED Reptile Light Fixture is recommended for 10-50 Gallon Horizontal

Terrariums or 10-67 Gallon Arboreal Terrariums. The 22-inch model is suitable for Horizontal Terrariums exceeding 40 Gallons or Arboreal Terrariums over 60 Gallons.

Part 2 Installation Procedures

1.Connect the controller's plug ("Kettle plug") to the light fixture and adapter's socket ("kettle cord").

2.Distance Adjustment: Determine the Ferguson Zone classification of your reptile's native habitat, then refer to the following Distance-UVI value chart to select the appropriate mounting height and UVB level.

Ferguson Zone	Ambient UVI Range (Active Zone) (Reference)	Peak UVI Value (Basking Zone) (Reference)
Zone 4	2.6 - 3.5	4.5 - 9.5+
Zone 3	1.4 - 2.6	2.9 - 7.4
Zone 2	0.7 - 1.4	1.1 - 3.0
Zone 1	0 - 0.7	0.6 - 1.4

Note: ✓ indicates the distance is recommended for reptiles in the corresponding Ferguson Zone; △ indicates it is not recommended.

12.0 level (70% Power Output)

Vertical Testing Distance	Peak UVI Value (Test Area)	Ambient UVI Range (Horizontal Zone) (Reference)	Recommended Ferguson Zone
▲ DANGER: High UVI risk at distances ≤6 inches			
7" - 12"	8	2.6 - 3.5	Zone 4 ✓
12" - 18"	5.6	1.4 - 2.6	Zone 3 ✓
18" - 26"	2.4	0.7 - 1.4	Zone 2 ✓
26" - 38"	1	0 - 0.7	Zone 1 △

10.0 level (90% Power Output)

Vertical Testing Distance	Peak UVI Value (Test Area)	Ambient UVI Range (Horizontal Zone) (Reference)	Recommended Ferguson Zone
▲ DANGER: High UVI risk at distances ≤6 inches			
6" - 10"	7.6	2.6 - 3.5	Zone 4 ✓
10" - 14"	5.2	1.4 - 2.6	Zone 3 ✓
14" - 24"	2.2	0.7 - 1.4	Zone 2 ✓
24" - 33"	1	0 - 0.7	Zone 1 △

5.0 level (70% Power Output)

Vertical Testing Distance	Peak UVI Value (Test Area)	Ambient UVI Range (Horizontal Zone) (Reference)	Recommended Ferguson Zone
▲ DANGER: High UVI risk at distances ≤5 inches			
5" - 9"	7.2	2.6 - 3.5	Zone 4 △
9" - 12"	5	1.4 - 2.6	Zone 3 ✓
12" - 18"	2	0.7 - 1.4	Zone 2 ✓
18" - 28"	1	0 - 0.7	Zone 1 ✓

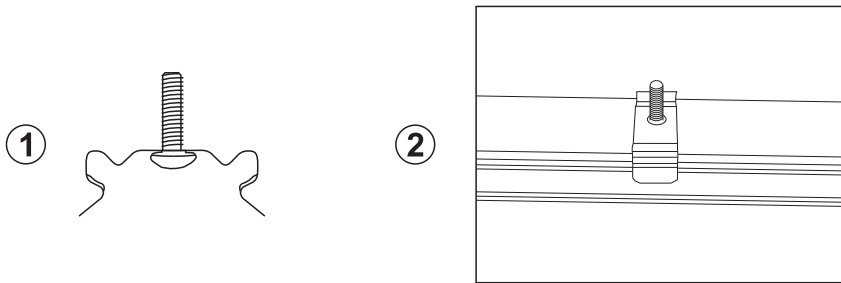
3.0 level (40% Power Output)

Vertical Testing Distance	Peak UVI Value (Test Area)	Ambient UVI Range (Horizontal Zone) (Reference)	Recommended Ferguson Zone
▲ DANGER: High UVI risk at distances ≤4 inches			
4" - 6"	6.8	2.6 - 3.5	Zone 4 △
6" - 8"	4.7	1.4 - 2.6	Zone 3 △
8" - 15"	1.8	0.7 - 1.4	Zone 2 ✓
15" - 20"	1	0 - 0.7	Zone 1 ✓

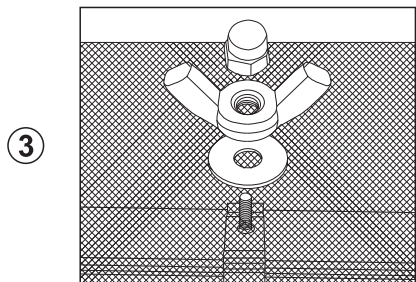
Note: The above data was obtained under standard test conditions (25°C) and may vary slightly due to factors such as ambient temperature and voltage stability.

Part 3 Installation Instructions for Under the Mesh

1.Insert the long screw upwards into the buckle and embed the buckle at both ends into the top cover of the light.



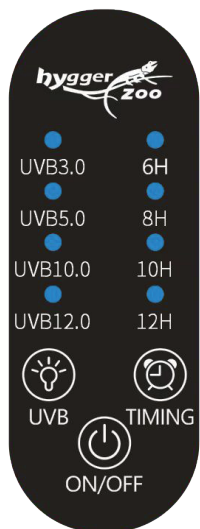
2. Place the light in an appropriate position on the mesh cover of the reptile terrarium, and install the gasket, butterfly nut, and nut cover on the bolt in turn.



4. INSTRUCTIONS

1. **Duration of Use:** 8-12 hours per day is recommended, and the time can be adjusted as needed.

2. Controller instructions:



The light defaults to the 12.0 setting (100% power output) in constant-on mode when powered on. Select the appropriate UVB level and lighting duration based on your specific needs. The controller features a 24-hour cycle timer function – once configured, it will automatically activate and deactivate at the same time each day. Please note that the controller does not have a memory function. This means that in the event of a power interruption, you will need to restart the light fixture and reconfigure its settings manually.

3. **Periodic Replacement:** Regularly inspect the LED UV light for damage or spectral attenuation to ensure your reptile receives adequate UVB exposure. The UVB output values of this light are depleted by approximately 18% after one year of use (based on 3,600 hours of operation at temperatures below 45°C). Please evaluate when to replace the light source according to your reptile's specific supplemental lighting needs.

5. ATTENTIONS

1. **Moisture Prevention:** This product is not waterproof. Avoid use in humid environments and prevent contact with water sources.

2. For effective vitamin D3 synthesis in reptiles, the basking zone requires adequate UVB exposure and a suitable ambient temperature! Maintain a distance of 2-3 inches between the heating light and the LED UVB light to prevent high temperatures from affecting the LED performance and reducing its lifespan.

3. **Keep Children Away:** Install the light fixture in a location inaccessible to children.

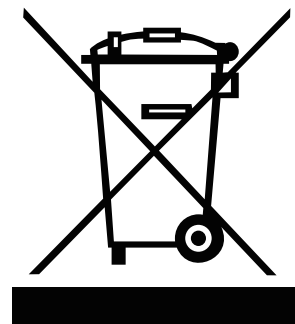
6. PACKING LIST

1x HO UVB LED Reptile Light Fixture

1x User Manual

7. DISPOSAL

Do not dispose of this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product must not be disposed of together with the domestic waste. This product has to be disposed of in an authorized place for recycling electrical and electronic appliances. By collecting and recycling waste, you help save natural resources, and make sure the product is disposed of in an environmentally friendly way.



8. EIGHT-MONTH LIMITED WARRANTY

For this product, Hygger zoo offers eight-month guarantee for free. If you discover a defect, please contact Hygger zoo, who will, at its option, repair or replace the product at no charge, provided that you return it during the warranty period.

A copy of the bill of sale is required as proof of the original purchase date if the product needs repairs within the warranty period. Hygger zoo Eight-month Limited Warranty does not cover damage caused by the following:

1. Artificial damage
2. Improper use or maintenance
3. Modifications or repairs without the written permission of Hygger zoo

If you have any other questions regarding warranty service or product use, please contact us at zoo@hygger-online.com upon presentation of proof of purchase and product information, and we will solve the problem for you as quickly as possible.

We reserve the right of final interpretation regarding the warranty coverage of this product.

9. CONTACT INFORMATION

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