



## Stable Light Product Manual



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## 1. Introduction

The Equilume Stable Light provides the horse with biologically effective light in a system that replicates the benefits of nature's environmental lighting for the stabled horse. When installed and programmed according to this manual, the lights are designed to maximize health, performance and breeding efficiency by naturally strengthening the horse's circadian rhythms.

## 2. Product Information

### 2.1 Specifications

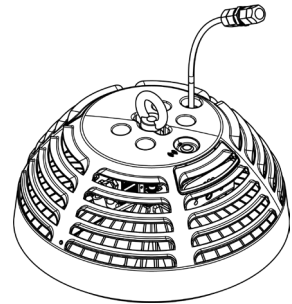
Specifications	Controller	Stable Light
Input power/current		55W 300mA
Output power/current		50W 1A
Protection	Over voltage, load and temperature	Over voltage and load
Mains Frequency	47-63 Hz	47-63 Hz
IP Rating	IP65	IP65
Dimensions	140 x 110 x 60 mm (5.5 x 4.3 x 2.4 in)	384 x 384 x 230 mm (15 x 15 x 9 in)
Weight	0.7 kg (1.5 lbs)	4.2 kg (9.3 lbs)
RF Frequency – EU/UK	868 MHz	868 MHz
RF Frequency – AUS/NZ	915 Mhz	915 Mhz
RF Frequency – USA/CA	915 Mhz	915 Mhz
Range	RF: 0 - 1 km (0 - 0.6 mi)	RF: 0 - 1 km (0 - 0.6 mi)
Light coverage		4.5 x 4.5 x 3.5 m (15 x 15 x 11.5 ft)
Operational temperature range	-20° C to 50° C* (-4° F to 122° F)	-40° C to 50° C (-40° F to 122° F)
Rated Life (24/7 operation)	> 50,000 hrs	> 30,000 hrs
Limited Warranty (24/7 operation)	2 years	3 years
Compliance	CE, WEEE, RoHS, EMC and FCC	

*\*The screen on the Controller is rated to withstand temperatures from -20° C to +50° C (-4° F to 122° F). If environmental temperatures are expected to exceed this range then it is recommended that the Controller is further insulated.*

### 2.1.1 Stable Light

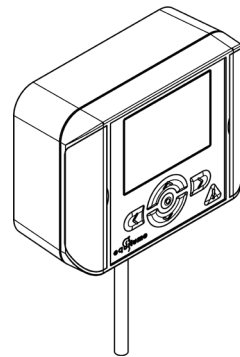
The Stable Light is powered by a single-phase mains electrical cable at a voltage of 80-264 VAC and is provided with 30 cm (11.8 in) mains flex cable with an IP65 rated in-line connector so that the installer can connect with ease to the mains electrical supply. The Stable Light measures ambient light and adjusts its output accordingly to create the desired light intensity within the beam range. The Stable Light is protected by a protective guard (blue cover) to protect against ingress of dust and debris. This provides full upright coverage and ventilation.

The protective guard has openings on either side for the installation of a mounting bracket (U shape) that is supplied separately when required. This bracket can be connected to the internal Stable Light chassis. This allows the Stable Light to operate at an angle if needed. The Stable Light is resistant to corrosion and degradation that could be caused by nitrates and other gases produced within the stable environment.



### 2.1.2 Controller

The Controller is powered by a single-phase mains electrical cable at a voltage of 80-264 VAC and is provided with 30 cm (12 in) mains flex cable with an IP65 rated in-line connector for the installer to connect with ease to the mains electrical supply. The Controller comprises a 9 cm (3.5 in) anti-glare colour screen with a white backlight situated above a variety of buttons. The buttons are integral to the membrane with 5 main control options; up, down, right, left and select. There is also a red emergency override button (!) that when pressed, turns on the bright white light in all Stable Lights paired with that Controller.



### 2.1.3 Accessories

A 2 m (6.6 ft) black chain and 2 carabiner clips are provided, to enable the hanging of the Stable Light vertically via the main loop on the top.

### 3. INSTALLATION INSTRUCTIONS FOR ELECTRICIANS

Please read the instructions carefully before use to ensure safe and satisfactory operation of this product. Please keep these instructions for future reference.

#### 3.1 Warnings

- This product is an IEC protection Class I appliance and must be earthed.
- The Stable Light is for indoor use only.
- The light source within the Stable Light is non-replaceable. When the light source expires, the entire Stable Light must be replaced.

**Please read these instructions carefully before commencing installation.**

Install in accordance with the IEE Wiring Regulations and Building Regulations. To prevent electrocution, disconnect at mains supply before installing Stable Lights. The Stable Lights should be connected to a 5-amp fused circuit. If replacing an existing fitting, make a note of the connections.

*Note: The Stable Light is to be suspended 3.5 m (11.5 ft) from the ground and in the centre of the stable where possible. If installing in an open barn, space each Stable Light approximately 4.5 m (15 ft) apart.*

#### 3.2 Installation Instructions for Stable Light and Controller

Requirements for installation of Stable Lights:

- Small Phillips flathead screwdriver
- Bracket/screws suitable to attach the hanging loop or chain to the roof/ceiling of the stable/barn

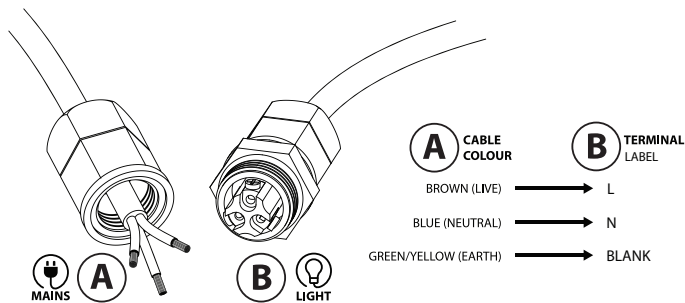
Each Stable Light has its own identification number and identification number cards. Please attach one of these cards outside the stable in which the Stable Light is to be installed for easy identification. The Controller will identify the Stable Light by this number. Users can later change this number on the controller to a suitable name for the stable or animal.

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**Step 1:** Disconnect the mains power. When replacing an existing light fitting in stable/barn, carefully note the position of each set of house wires. Where a ring/loop circuit exists, there will be a fourth set of wires (usually red) that are not connected to the Live (L) or Neutral (N) of the fitting. This circuit must be kept together in the 4th terminal of the connection block, and insulated from the fitting and the other wires. The ring/loop will remain live unless isolated at the mains or circuit breaker regardless of the position of the wall switch.

**Step 2:** Having identified the wiring, connect to the connection block included with the Stable Light and/or Controller in the following way:



Please ensure that...

- House wires are correctly identified
- The connections are tight
- No loose wires have been left out of the connection block
- The lid is fitted tightly onto the connection block case

A fourth connection block can be used should it be needed to make a loop connection. This is not provided. The connection block must be wrapped in insulation tape covering at least 2 cm (0.9 in) of the wiring on each side.

Requirements for installation of Controller:

- 4x screws and wall plugs to attach Controller to wall surface

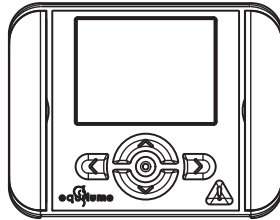
When installing the Controller, make sure it is positioned such that the Emergency override button (!) can be accessed at all times. To install the Controller, please follow steps 1 and 2 above.

**Step 3:** Replace fuse or circuit breaker and reconnect mains power. The Equilume Stable Lights are now ready for pairing and programming using the Controller.

## 4. Safety Information

- Always switch off the main power supply before replacing or cleaning the Equilume Stable Light.
- Replace external cables if damaged to avoid electrical hazards.
- The Stable Light should be positioned so that prolonged direct exposure to the eye at distances closer than 0.4 m (1.3 ft) is avoided.

## 5. Getting Started: Instructions for Users



### 5.1 How to navigate through the Controller menus

Use the navigation buttons on the Controller to navigate around the screen. These are; up ( $\wedge$ ), down ( $\vee$ ), left ( $<$ ), right ( $>$ ) and select ( $\bullet$ ).

Highlight icons on screen using the navigation buttons and press select ( $\bullet$ ) to enter.

Select the OK ( $\checkmark$ ) symbol to proceed following data entry.

Select the BACK ( $\leftarrow$ ) symbol to return to previous menu.

Select the HOME ( $\text{house}$ ) symbol to return to the HOME menu at any stage.

## 6. How to Set-Up, Pair and Program Lights

Once connected to power, the Controller will show the Equilume logo for 3 seconds before going directly to the start-up menu screen. On initial activation of the Controller, users are asked to enter Controller ID, time and location data. This is a one-time data entry procedure at set-up, but details can be changed at any time in the future if necessary.



### **Step 1: Ensure mains power is turned on.**

### **Step 2: Set Controller ID**

The screen will display the 'SET CONTROLLER ID' window. If using a single Controller to manage Stable Lights, select 1. If multiple Controllers are required for larger facilities then give each additional Controller a new ID (1, 2, 3.. etc). Select ✓ to save. Controller ID is now set.

### **Step 3: Set date and time**

The screen will display the 'ENTER DATE' window. Enter the date in the (YYYY/MM/DD) format. Select ✓ to save. Date is now set.

The screen will display the 'ENTER TIME' window. Enter the time in the (HH.MM) 12 hour format followed by PM or AM. Select ✓ to save. Time is now set.

### **Step 4: Set location**

The screen will display the 'SET LOCATION' window. For this data entry, please visit: [www.whatsmygps.com](http://www.whatsmygps.com) to retrieve GPS location co-ordinates. Enter address to find the Decimal Degrees associated with GPS location. On the top line of the Controller screen, enter the LATITUDE decimal degrees followed by "N" or "S" (e.g. 123.4567° N). On the bottom line, please enter the LONGITUDE decimal degrees followed by "W" or "E" (e.g. 333.4445° W).

Select ✓ to save. Location is now set.

### **Step 5: Set Pin**

The screen will display the 'CREATE PIN' window. Highlight OK in the enter PIN window and enter the 4-digit PIN.

*Note: We recommend choosing a number that can be easily remembered. It is important to keep this PIN safe as it will be needed for most data entry. It is also advised that this PIN is kept between managers/owners to avoid disruption to programs after set-up.*

Select ✓ to save. Pin is now created.

## Step 6: Pair Lights

The next step is to pair the Stable Lights to the Controller. Select Pair Light icon from the Main Menu. There are 5 options available to select; Paired, Pair, Un-pair, Rename and Home. Select Pair icon. Enter PIN and select ✓. The next window will display 'ENTER SERIAL NUMBER(S) TO PAIR EXISTING LIGHTS(S)'. Highlight 'NO' and select (•).

The Controller now enters pairing mode and a 5 minute count down is initiated on the screen. As the timer is counting down, press the silver button on top of each Stable Light to establish a connection (hold silver button for 2 seconds and release). The Stable Light will flash red and turn off when it has successfully communicated with the Controller. The identification number for the paired Stable Light will now appear on the Controller's display. A new 5 minute countdown commences once a Stable Light has been successfully paired. Go to the next Stable Light and repeat until all Stable Lights appear on the Controller's display with their corresponding numbers. It is advised to pair lights in order of stable arrangement in yard/barn.

## Step 7: Program Lights

Stable Lights will not turn on until a program is loaded. From the Main Menu, select the Program icon. Within this menu, the options are View (to view previously loaded programs), Setup (to select a program for loading) and Home (return to main menu).

To load new programs or change programs, select Setup and 'ENTER PIN'. Enter PIN and select ✓. Stable Lights can be identified by their unique identification number (available on door card). Highlight by selecting one or more Stable Lights to be programmed. Select ✓.

*Note: To change the programs, override the existing program loaded.*

A window will then display 5 options

- CIRCA ANNUAL
- LONG DAY
- SHORT DAY
- REFLECT (mimics environmental light cycle at location)
- ERASE (Removes previously loaded program and deactivates Stable Light)

*Note: Please consult with an Equilume representative for advice on Program selection.*

Highlight program, select (•). Then enter the 'SUNRISE TIME'. This is the time at which the Stable Light starts to brighten to mimic dawn each day. Dim up occurs over a 20 minute interval. Therefore, it is recommended to choose a time that corresponds with 20 minutes prior to the start of daily activity in the yard/barn (e.g. if staff arrive at 7.00AM, set sunrise time for 6.40AM). Ensure 'NIGHT RED LIGHT' is ON and select (•). A 'PROGRAM SUMMARY' will be displayed. Select ✓. When the window shows 'LIGHT PROGRAMMED' the programming is complete. If programming more than one Stable Light, 'LIGHT PROGRAMMED' will display the unique identification code below to confirm program has been loaded to a specific Stable Light below it.

Note: 'NIGHT RED LIGHT' is not to be deactivated unless advised by Equilume. It is recommended that this function remains 'ON' at all times.

### **Step 8: View programs** (optional)

To view existing programs, select the View icon in the Program Menu. This will display the list of paired lights. Highlight a Stable Light to view and select ✓. The PROGRAM INFORMATION page will then be displayed. To view the program information for another Stable Light, select the back button (<) and highlight another Stable Light on the list. When finished, select the home button to return to the Main Menu.

*Note: The Stable Light's unique ID code can be viewed here if it has been previously changed.*

### **Step 9: Renaming lights** (optional)

Each Stable Light can be renamed as required.

To rename a Stable Light, first select the Pair icon from the Main menu. Select the Rename icon and 'ENTER PIN'. Select ✓. Highlight the Stable Light to be renamed. Select ✓. You will then be prompted to 'ENTER NEW NAME' (20-digit limit). Use the ^ and v buttons to do this for each letter/number. Select ✓. The new name is now saved. To exit the window select ✓.

## 7. How to deactivate a light or change programs

**Erasing a program serves the same function as deactivating a specific Stable Light.**

To erase programs, select the Program icon on the Main Menu. Select Setup icon. 'ENTER PIN' and select ✓. Stable Lights can be identified by their unique identification number (available on door card) or names if previously renamed. Highlight by selecting one or more Stable Lights to be erased and Select ✓.

A window will display 5 options:

- CIRCANNUAL
- LONG DAY
- SHORT DAY
- REFLECT (mimics environmental light cycle at location)
- ERASE (Removes a previously loaded program and deactivates Stable Light)

Highlight 'ERASE' and select (•) to 'CONFIRM ERASE PROGRAM?', Select ✓ to confirm. It will display 'LIGHT PROGRAMMED' confirming the program has been erased and the Stable Light will turn off.

To change a program highlight another program option and select (•). To confirm PROGRAM select ✓. Display will read 'LIGHT PROGRAMMED' confirming program has been changed.

## 8. How to turn on the white light for an individual Stable Light at night

To activate the white light at night select the override icon from the Main Menu. Scroll down through the list of paired lights and highlight the one you wish to activate, select ✓. The next screen will display 'ENABLE OVERRIDE'. Highlight 'Yes' and select (•). The override option now activates the white light for that individual light.

*Note: Once activated, the override operates on a 60-minute timer and will then revert back to the default program.*

*Note: The white light at night should only be activated in emergency situations requiring better visibility and is not to be used routinely.*

## **9. How to deactivate an individual white light at night and return to the default program**

To deactivate the white light, select the override icon from the Main Menu. Scroll down through the list of paired lights and highlight the one you wish to deactivate, select ✓. The next screen will display 'ENABLE OVERRIDE'. Highlight 'No' and select (•). Override is now disabled and the light should return to red.

## **10. How to activate the white light at night for ALL lights in an emergency**

To quickly activate the white light at night, press the red emergency override button (!) on the front of the Controller. This will activate the white light for all Stable Lights paired to that Controller. To deactivate this white light, press the red emergency override button (!) again. This will deactivate the white light.

*Note: This method of activating the white light is to be used for emergency situations only. The white light will automatically deactivate after 60 minutes but can be turned off sooner by pressing the red (!) button on the Controller again. All lights will then return to their default programs.*

## **11. How to change PIN Number**

To change the pre-set pin number, select the Pin Icon from the Main Menu. 'ENTER CURRENT PIN' and select ✓. 'ENTER NEW PIN' (this will be a new 4 digit pin number). Enter PIN and select ✓. Pin is now changed.

## **12. How to change date and time**

To change the date and time, select the Settings icon from the Main Menu. Select the Date / Time icon and 'ENTER PIN', select ✓. The screen will display the 'ENTER DATE' window. Enter the date in the (YYYY/MMM/DD) format. Select ✓ to save. Date is now set. The screen will display the 'ENTER TIME' window. Enter the time in the (HH.MM) 12 hour format followed by PM or AM. Select ✓ to save. Time is now set.

## **13. How to change Controller ID**

To change Controller ID, select the Settings icon, followed by Controller ID. The screen will display the 'SET CONTROLLER ID' window, enter new Controller ID and select ✓ to save. Controller ID is now set.

## 14. How to change Location

To change Controller location, select the Settings icon from the Main Menu, followed by the Location icon. The screen will display the 'SET LOCATION' window. For this data entry, please visit: [www.whatsmygps.com](http://www.whatsmygps.com) to retrieve GPS location co-ordinates. Enter address to find the Decimal Degrees associated with the GPS location. On the top line of the Controller screen, enter the LATITUDE decimal degrees followed by "N" or "S" (e.g. 123.4567° N). On the bottom line, please enter the LONGITUDE decimal degrees followed by 'W' or 'E' (e.g. 333.4445° W).  
Select ✓ to save. Location is now set.

## 15. Care and cleaning

- Do not use abrasive substances to clean the Stable Light as these may damage the finish.
- Use a damp cloth to clean the plastic guard.
- The Equilume Stable Light can be washed with a pressure hose or steam cleaner as the housing is IP65 rated.

## 16. Product warranty

The warranty covers any electronic failures with the Equilume Stable Light.  
Length of warranty:

Controller: 2 years

Luminaire: 3 years

To register your warranty please email [warranty@equilume.com](mailto:warranty@equilume.com). You will receive a link that will take you to the warranty registration form.

## 17. Technical support

If you are experiencing any technical difficulties, our customer service team are on hand to help and talk you through resolving the issue.

Email: [info@equilume.com](mailto:info@equilume.com) or contact one of our Territory Managers.

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