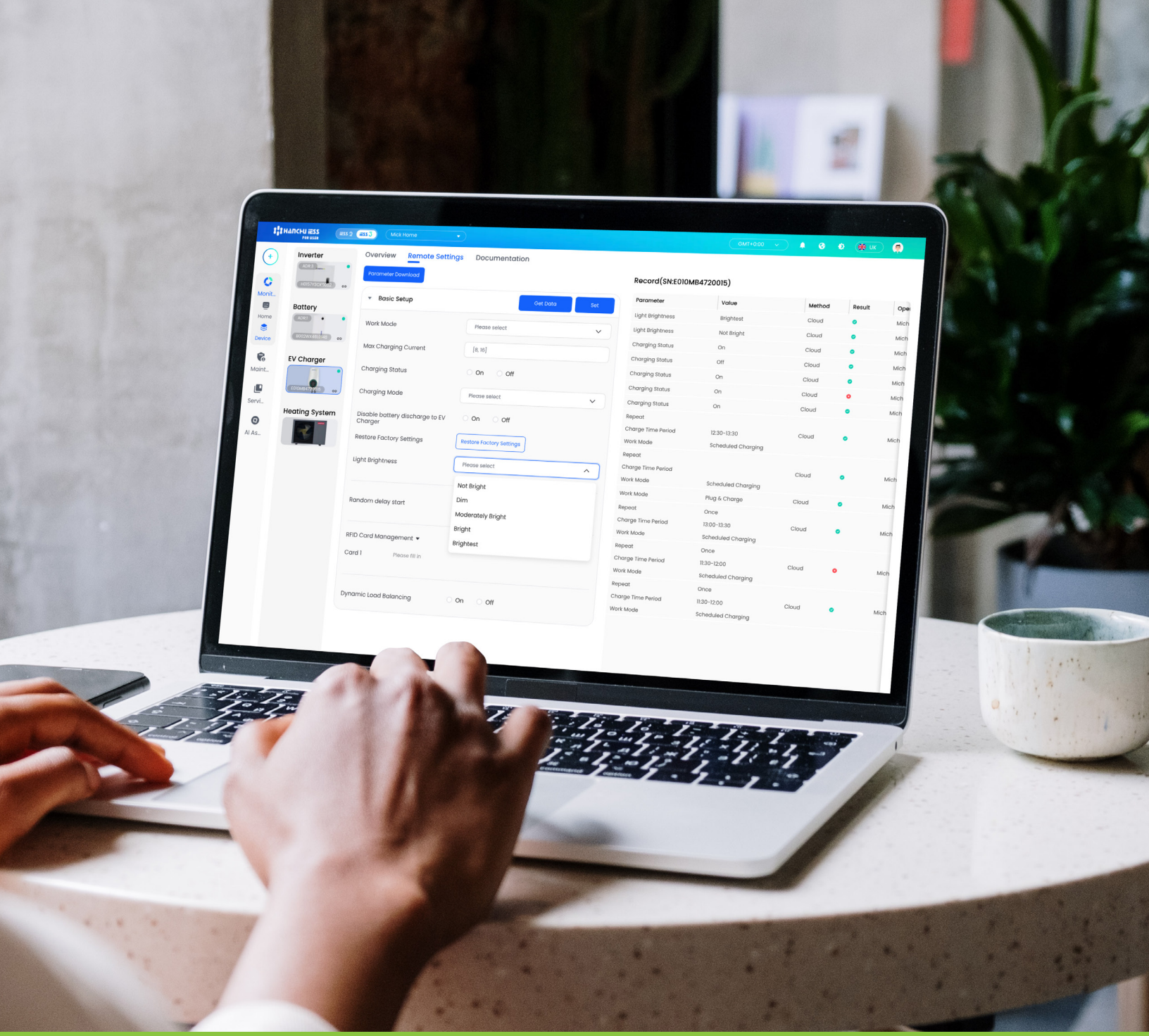

HANCHU ESS Battery Storage System - **User Guide**

What is the Light Brightness Setting? – Web-Portal

Infinity Innovations | HANCHU ESS

Version 1.0

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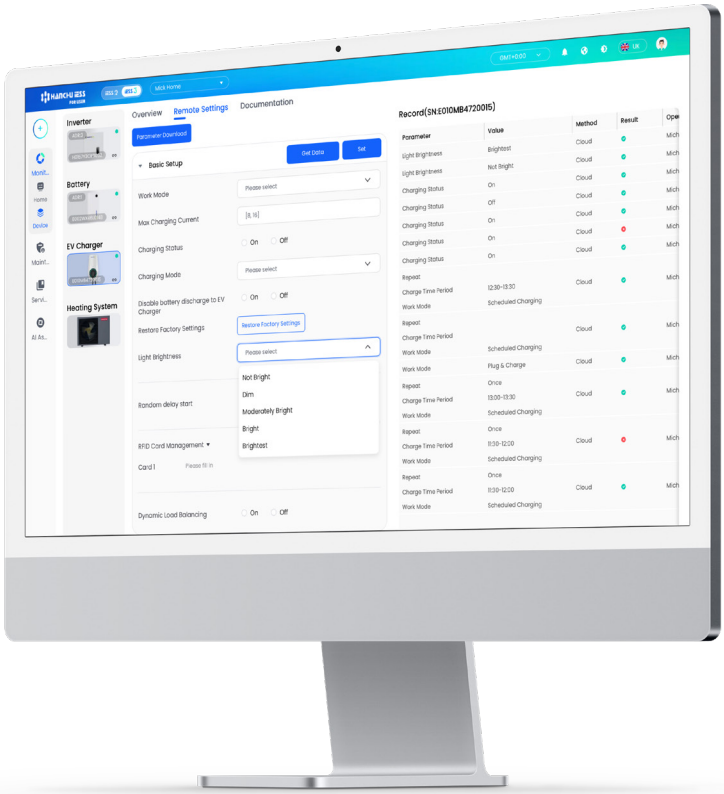
1. Introduction

Your Hanchu ESS EV charger features an adjustable light brightness setting that controls the intensity of the LED indicator lights on the device. This guide explains what the light brightness setting does, why you might want to adjust it, and provides step-by-step instructions on how to change this setting through the Hanchu ESS monitoring portal.



2. Understanding Light Brightness

The light brightness setting controls the brightness level of the LED indicator lights on your EV charger. These lights provide visual feedback about the charger's status, including charging state, connection status, and operational mode. By adjusting the brightness, you can customize how prominently these status indicators are displayed.

3. What Does Light Brightness Control?

The light brightness setting adjusts the intensity of the LED indicator lights on your Hanchu ESS EV charger. These lights serve important functions:

3.1 LED Indicator Functions

Status Indication: The LED lights on your charger display different colors and patterns to indicate:

- Whether the charger is connected to a vehicle
- The current charging status (charging, idle, error, etc.)
- The operational mode of the charger
- Any alerts or warnings that require attention

Visual Feedback: The brightness of these lights helps you quickly understand your charger's status from a distance, even in low-light conditions.

Operational Awareness: By glancing at the LED indicators, you can confirm that your charger is functioning correctly without needing to access the monitoring portal.

4. Why Adjust Light Brightness?

There are several practical reasons why you might want to reduce or adjust the light brightness setting on your EV charger:

4.1 Reduce Light Pollution and Glare

The Issue: If your EV charger is installed in a location visible from your bedroom, living room, or other living spaces, the bright LED lights can create unwanted light pollution and glare, especially at night.

The Solution: Reducing the brightness setting allows you to maintain status visibility while minimizing the visual distraction and light pollution in your home.

Benefit: Enjoy a more comfortable living environment without sacrificing the ability to monitor your charger's status.

4.2 Minimize Sleep Disruption

The Issue: Bright LED lights from your charger can interfere with sleep quality if the charger is visible from your bedroom. The constant light source can disrupt your circadian rhythm and make it harder to fall asleep or maintain deep sleep.

The Solution: Lower the brightness setting to reduce the intensity of the light reaching your bedroom.

Benefit: Improve sleep quality and overall well-being by reducing nighttime light exposure.

4.3 Aesthetic Preferences

The Issue: Some homeowners prefer a more subtle appearance for their EV charger installation, especially if the charger is in a prominent location or visible from the street.

The Solution: Reduce the brightness to create a more understated appearance while still maintaining functional status indication.

Benefit: Achieve a cleaner, more integrated look for your home's exterior or garage.

4. Why Adjust Light Brightness?

4.4 Energy Efficiency Consideration

The Issue: While the LED lights consume minimal energy, every bit of energy efficiency counts for environmentally conscious homeowners.

The Solution: Reducing brightness slightly decreases the power consumption of the LED indicators.

Benefit: Contribute to overall energy efficiency, even if the savings are modest.

4.5 Prevent Neighbor Disturbance

The Issue: If your charger is installed near a property line or in a location visible from a neighbor's property, bright LED lights could be considered a nuisance, especially during nighttime hours.

The Solution: Adjust the brightness to a more reasonable level that provides status indication without creating a disturbance.

Benefit: Maintain good neighbor relations and demonstrate consideration for shared spaces.

4.6 Reduce Eye Strain in Low-Light Conditions

The Issue: In dark environments (such as a garage or carport at night), very bright LED lights can cause eye strain when you're checking the charger status.

The Solution: Lower the brightness to a comfortable level that's still visible but doesn't cause discomfort.

Benefit: Comfortably check your charger status without experiencing eye strain.

4.7 Maintain Consistent Lighting Levels

The Issue: If you have multiple devices with LED indicators in the same space, varying brightness levels can create an unbalanced appearance.

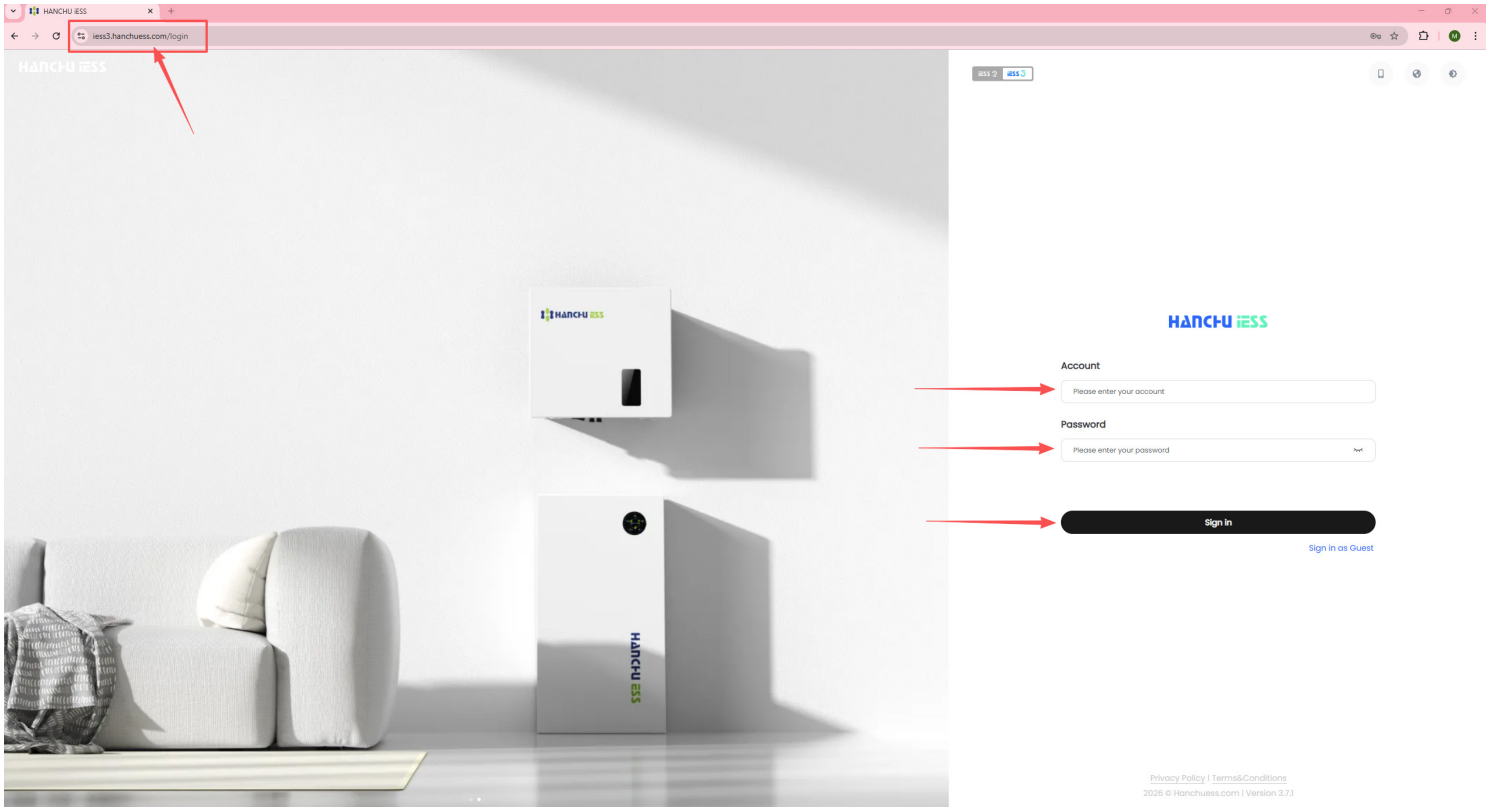
The Solution: Adjust the brightness of your EV charger to match the lighting levels of other devices in your installation.

Benefit: Create a more cohesive and professional-looking installation.

5. Step-by-Step Guide to Adjusting Light Brightness

5.1 Step 1: Log In to the Hanchu ESS Portal

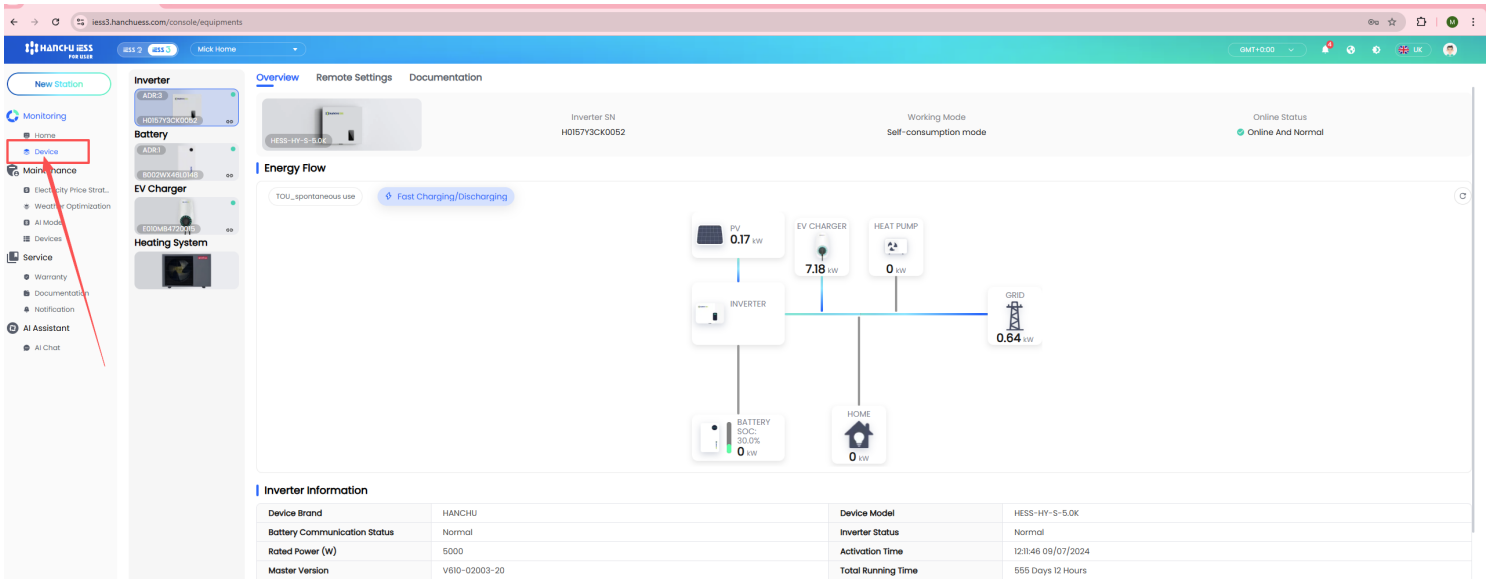
Begin by accessing the Hanchu ESS web portal. Open your web browser and navigate to the portal URL. You will be presented with the login screen. Enter your **Account** (username) and **Password**, then click the **Sign In** button.



5. Step-by-Step Guide to Adjusting Light Brightness

5.2 Step 2: Navigate to Devices

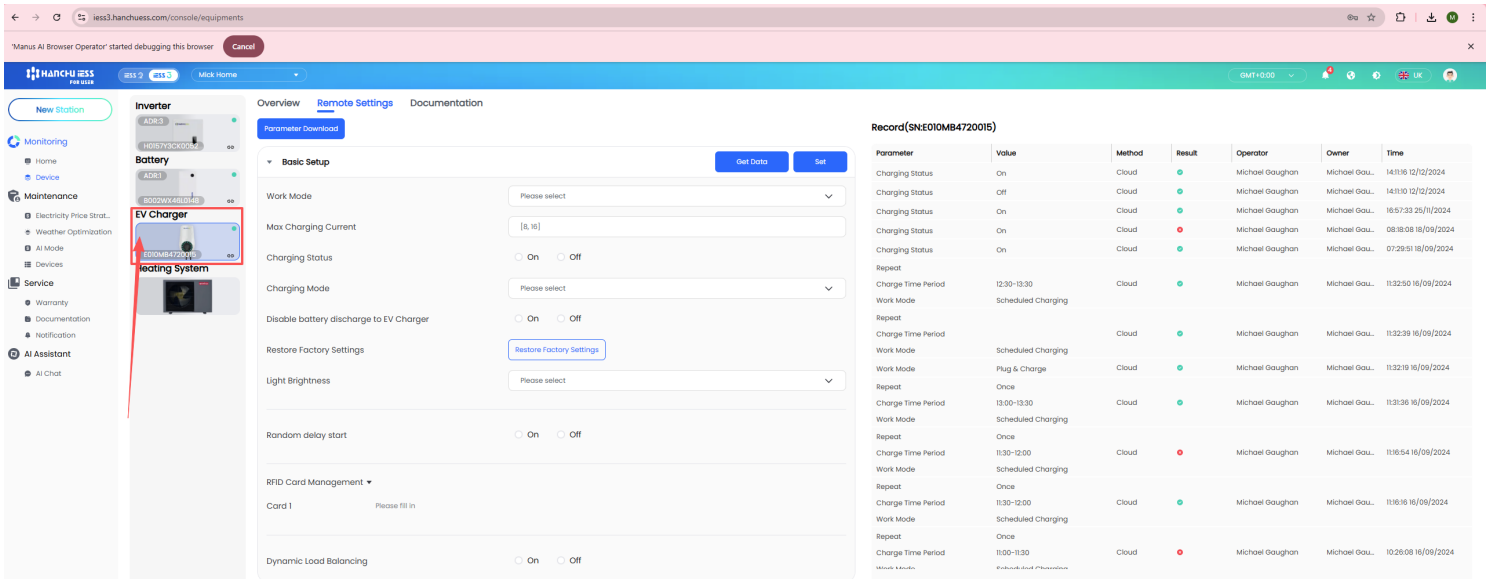
From the main dashboard, locate the **Device** option in the left-hand sidebar menu. Click on **Device** to view a list of all components in your Hanchu ESS system.



5. Step-by-Step Guide to Adjusting Light Brightness

5.3 Step 3: Select Your EV Charger

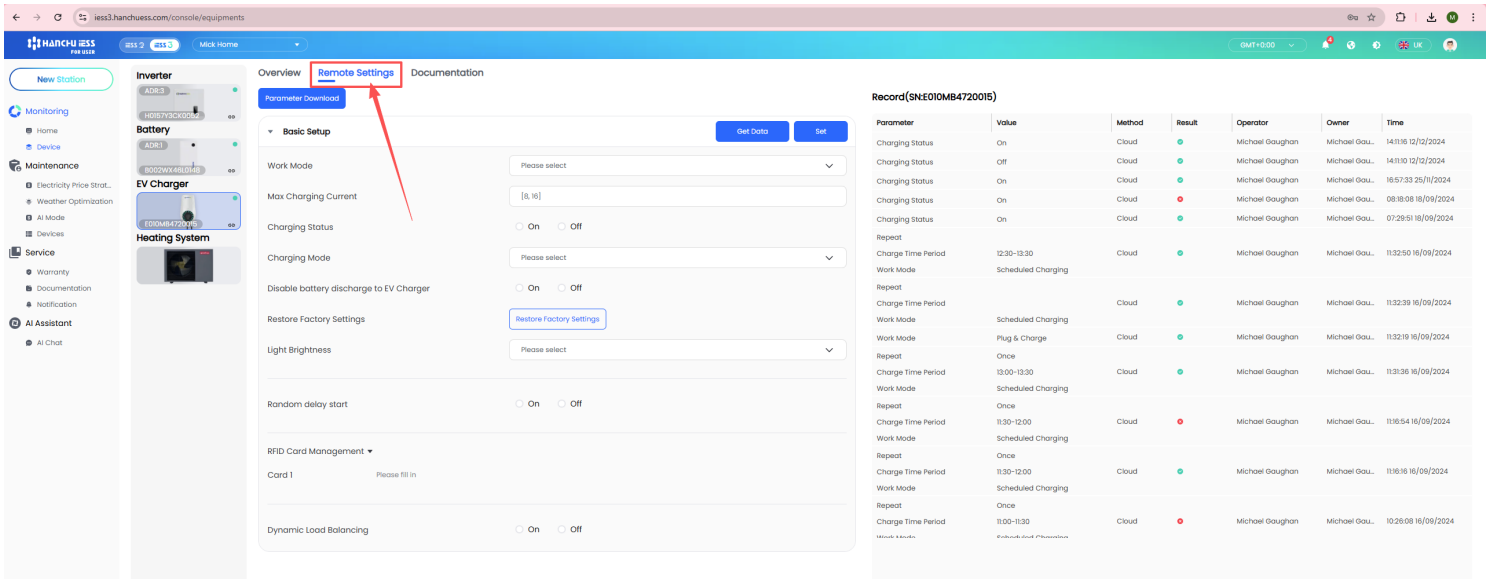
On the devices page, you will see a list of your installed Hanchu ESS components. Click on the **EV Charger** section to select it and view its specific details and settings.



5. Step-by-Step Guide to Adjusting Light Brightness

5.4 Step 4: Access Remote Settings

At the top of the EV Charger's detail page, click on the **Remote Settings** tab. This will take you to the remote configuration interface for your EV charger.



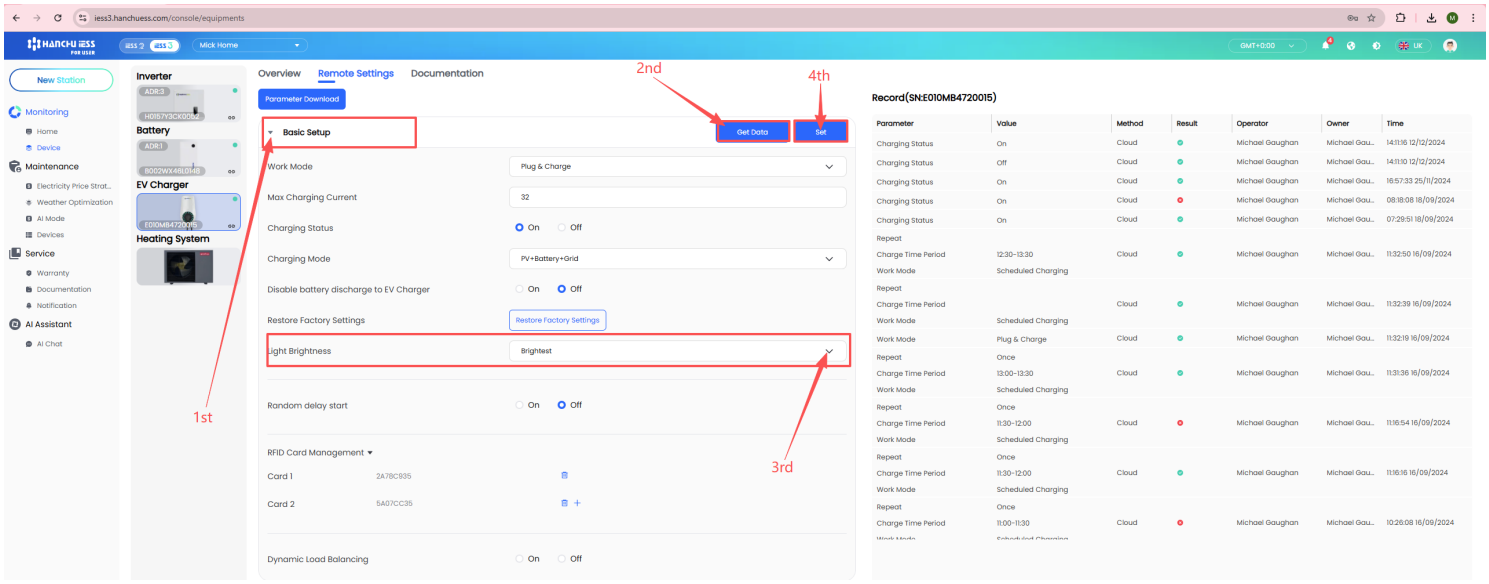
5. Step-by-Step Guide to Adjusting Light Brightness

5.5 Step 5: Locate and Adjust Light Brightness Setting

On the Remote Settings page, you will find the **Light Brightness** setting, which is typically located in the **Basic Setup** section. This setting controls the intensity of the LED indicator lights on your charger. To adjust the light brightness, follow these steps in order:

1. **Get Data:** First, click the **Get Data** button to retrieve the latest settings from the EV charger.
2. **Open Basic Setup:** The Basic Setup section should already be visible. If not, click on it to expand it.
3. **Locate Light Brightness:** Find the **Light Brightness** field. This typically shows a numerical value or a slider control representing the current brightness level.
4. **Adjust the Setting:** If using a slider, click and drag the slider to the left to decrease brightness or to the right to increase brightness. If using a numerical input, click on the field and enter a new value (typically on a scale of 0-100, where 0 is off and 100 is maximum brightness).
5. **Preview the Change:** Some systems allow you to preview the brightness change in real-time. If available, observe how the adjustment affects the LED indicator visibility.
6. **Set:** Finally, click the **Set** button to apply your changes. A confirmation message will appear indicating that the setting has been applied.

After applying the new brightness setting, observe your EV charger to confirm that the LED indicators are now at your preferred brightness level. If the adjustment isn't quite right, you can return to the Remote Settings page and fine-tune the brightness further.



Example: Setting Times for Expensive Tariffs

If your electricity provider offers expensive rates from 5:00 PM to 7:00 PM, you would set:

Field	Value
Start time	17:00
End time	19:00

6. Understanding Brightness Levels

6.1 Brightness Scale

Most EV chargers use a brightness scale that allows for fine control over LED intensity:

High Brightness (80-100): Maximum visibility, ideal for:

- Installations in low-light areas (garages, carports)
- Users who need clear status indication from a distance
- Outdoor installations in shaded areas

Medium Brightness (40-70): Balanced visibility, ideal for:

- Standard installations with moderate ambient light
- Users who want clear status indication without excessive brightness
- Most residential installations

Low Brightness (20-40): Subtle indication, ideal for:

- Installations visible from living spaces
- Users concerned about light pollution
- Nighttime-friendly setups

Minimum Brightness (1-20): Minimal indication, ideal for:

- Installations in bedrooms or sleep areas
- Users who prefer minimal visual impact
- Situations where only occasional status checking is needed

7. Important Information

7.1 Changing Light Brightness

You can change the light brightness setting at any time. There is no penalty for adjusting this setting, and you can experiment with different levels to find what works best for your situation.

7.2 Immediate Effect

Changes to the light brightness setting take effect immediately or within a few seconds after you click the Set **button. You should see the LED indicators on your charger adjust to the new brightness level right away.**

7.3 Brightness and Functionality

Important Note: **Reducing the brightness does not affect the charger's functionality. The charger will continue to operate normally and provide all status information through the LED indicators, just at a lower brightness level.**

7.4 Minimum Visibility

While you can reduce brightness significantly, it's recommended to keep the brightness at a level where the LED indicators are still visible in your typical usage conditions. This ensures you can always see the charger's status at a glance.

7.5 Seasonal Adjustments

You may want to adjust brightness seasonally:

- **Summer:** Higher brightness may be needed due to increased ambient light
- **Winter:** Lower brightness may be sufficient due to reduced ambient light
- **Nighttime:** Consider lower brightness to avoid sleep disruption

8. Practical Scenarios

8.1 Scenario 1: Bedroom Proximity

Situation: Your EV charger is installed in a garage adjacent to your bedroom, and the bright LED lights are visible and disruptive to sleep.

Solution: Reduce the light brightness to 20-30% to maintain status visibility while minimizing sleep disruption.

Result: You can still see the charger's status when needed, but the lights won't interfere with your sleep.

8.2 Scenario 2: Outdoor Installation

Situation: Your EV charger is installed outdoors and is visible from your neighbor's property. The bright lights are creating a nuisance.

Solution: Lower the brightness to 40-50% to provide adequate visibility while being more considerate of neighbors.

Result: Your charger remains functional and visible to you, but with reduced impact on surrounding properties.

8.3 Scenario 3: Garage Installation with Ambient Light

Situation: Your charger is installed in a well-lit garage where natural light and other lighting sources provide sufficient visibility.

Solution: Reduce brightness to 30-40% since the LED indicators don't need to compete with bright ambient light.

Result: The LED indicators remain visible and functional while consuming less power.

8.4 Scenario 4: Low-Light Installation Area

Situation: Your charger is installed in a dark carport or covered area with minimal ambient light.

Solution: Keep brightness at 70-80% or higher to ensure the LED indicators are clearly visible in low-light conditions.

Result: You can easily see the charger's status even in darkness.

8.5 Scenario 5: Aesthetic Preference

Situation: You prefer a more subtle appearance for your charger installation and want the LED lights to be less prominent.

Solution: Reduce brightness to 25-35% to create a more understated look while maintaining functionality.

Result: Your installation has a cleaner appearance that blends better with your home's aesthetic.

9. Troubleshooting Brightness Issues

9.1 LED Lights Not Visible After Reduction

Issue: After reducing brightness, you can no longer see the LED indicators.

Solution: Increase the brightness slightly until the indicators are visible in your typical usage conditions. Try a setting of 30-40% as a starting point.

9.2 Brightness Setting Not Saving

Issue: You've adjusted the brightness, but it reverts to the previous setting after a short time.

Solution: Ensure you clicked the Set button to confirm the change. If the issue persists, try adjusting the brightness again and verify that the confirmation message appears.

9.3 Inconsistent Brightness Levels

Issue: The brightness appears inconsistent or flickers.

Solution: This could indicate a connection issue. Try refreshing the page or logging out and back into the portal. If the problem continues, contact your installer for technical support.

9.4 Important Notes

- **Experimentation:** Don't hesitate to try different brightness levels. You can easily adjust it again if needed.
- **Seasonal Changes:** Consider adjusting brightness seasonally based on changes in ambient light conditions.
- **Functionality Unaffected:** Adjusting brightness does not impact the charger's charging performance or any other functionality.
- **Status Monitoring:** Even at low brightness levels, the LED indicators will still provide important status information about your charger.
- **Installer Consultation:** If you have questions about the appropriate brightness level for your specific installation, consult your installer for personalized recommendations.

10. Need Help?

If you have questions about adjusting the light brightness setting, or if you're experiencing issues with the LED indicators, please contact your installation company for technical support. They can provide guidance based on your specific installation location and lighting conditions.