

USER MANUAL

Intelligent Dimmer & Timer System (Agri-IDS)



Master & Slave Control / Battery Back-Up

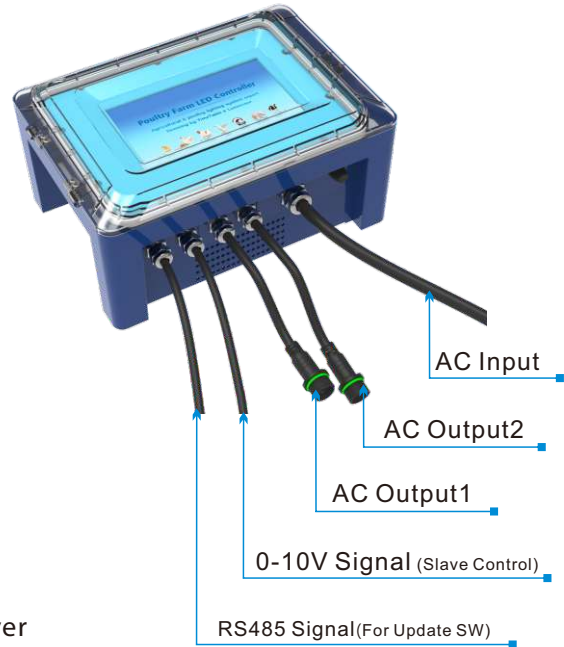
DIY Lighting Program

24Hrs/Days Auto-programmatic Operation



Features

- Precise and consistent dimming
- Top Smooth dimming from 0-100% flicker free to simulate the sunrise&sunset, to improve the animal welfare
- Schedule up (Broilers / Layer hens) or Support DIY set up
- Built-in Digital CPU with smart timing + dim control
- Program timed or temporary dimming override
- Transition time available for daylight simulation
- Fully automatic control or manual options
- 7 Inches LCD display
- Triac Technology for Leading Edge Dimming
- BiMos Technology for Trailing Edge Dimming
- Support 0-10v controlling signal for AC Dimmer
- Battery Back-Up RTC to ensure the programmed cycle not be affected by power outages or downtime during the switch over to back up generator



Electrical Specs

Model No.	Output Current	Output Power / 110V	Output Power / 220V	Input Voltage	Frequency
Smart Control System- Triac (Master&Slave)					
IDS-2000-1C	1AC Output *10A One Channel One 0-10V Input	Maximum resistive load : 1100W	Maximum resistive load : 2200W	AC100-240V	50/60 Hz
IDS-4000-2C	2AC Output*10A Two Channels Two 0-10V Input	Maximum resistive load : 2200W	Maximum resistive load : 4400W	AC100-240V	50/60 Hz
Smart Control System- Bimos (Master&Slave)					
IDS-2000-1C	1AC Output *10A One Channel One 0-10V Input	Maximum resistive load : 1100W	Maximum resistive load : 2200W	AC100-240V	50/60 Hz
IDS-4000-2C	2AC Output*10A Two Channels Two 0-10V Input	Maximum resistive load : 2200W	Maximum resistive load : 4400W	AC100-240V	50/60 Hz
Smart control system- 0-10v					
IDS-1L	One Channels Three 0-10V Output	Maximum 25pcs/Output	Maximum 25pcs/Output	AC100-240V	50/60 Hz
IDS-2L	Two Channels Six 0-10V Output	Maximum 25pcs/Output	Maximum 25pcs/Output	AC100-240V	50/60 Hz
IDS-6L	Six Channels Six 0-10V Output	Maximum 25pcs/Output	Maximum 25pcs/Output	AC100-240V	50/60 Hz

Interface Description



Poultry House Intelligent Dimming System

17:16:22 15 Jan 2021

Brightness Option Settings

Current Brightness:	50
Current Day in Flock:	15
Total Day in Flock:	120
Working mode:	Work the Same
Timing Table:	1
Starting time:	Month 1 Day 1 Year 2021

2000W Main Interface

17:16:22 15 Jan 2021

Brightness Option Settings

	L1	L2
Current Brightness:	50	65
Current Day in Flock:	15	15
Total Day in Flock:	120	120
Working mode:	Work the Same	Work the Same
Timing Table:	1	1
Starting time:	Month 1 Day 1 Year 2021	Month 1 Day 1 Year 2021

4000W Main Interface

Important Notice:
 when you click “Brightness Option” or “Settings”,
 you have to input the password to enter the next screen
Original Password: “9528”

17:16:22 15 Jan 2021

63%

Back

Turn on Turn off

Coarse Dim+ Coarse Dim-

Fine Dim+ Fine Dim-

2000W Manual Dimming Control

17:16:22 15 Jan 2021

63%

Back

L1 L2

Turn on Turn on

Coarse Dim+ Coarse Dim+

Coarse Dim- Coarse Dim-

Fine Dim+ Fine Dim+

Fine Dim- Fine Dim-

Turn off Turn off

50%

4000W Manual Dimming Control

Time Time Table 1% Min.Adjust Options Password Back

Current Time 15 Jan 2021 17:17:27

Adjust Time Month 1 / Day 15 / Year 2021

15 : 15 : 30

Adjust

Shenzhen AMB Technology Co., Ltd

System Setting

Month 1 Day 1 Year 2021 Start L1+L2-Table: 1

	Start Day	End Day	Hour	Min	Light Level	Ramp Minutes
1	1	7	1	45	50	15
2	1	7	10	45	100	15
3	1	7	23	0	0	15
4	8	52	6	45	65	15
5	8	52	10	45	10	15
6	8	52	23	0	0	15
7						
8						
9						
10						

Save Clear

Page 1/10

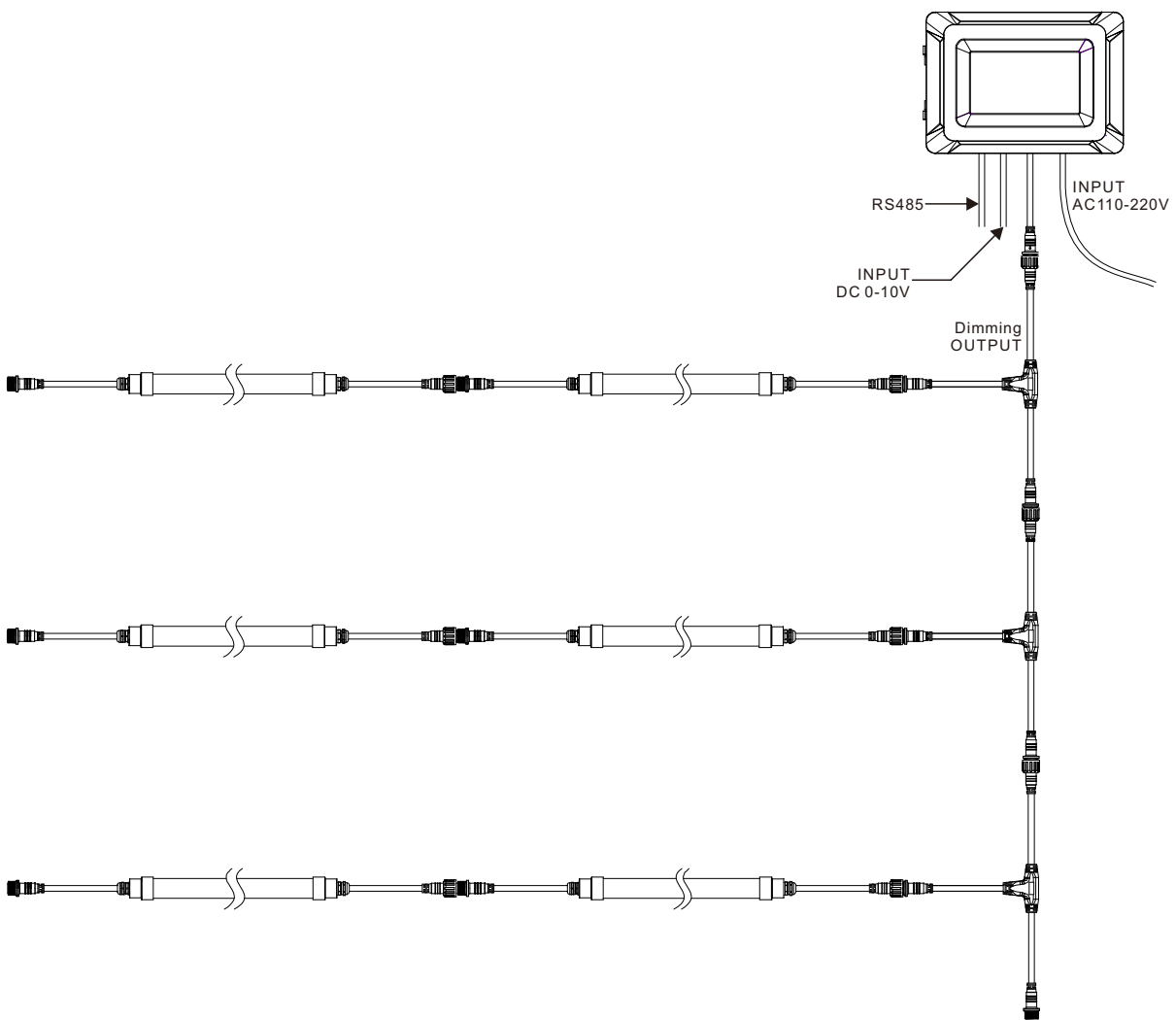
Exit

Auto-Programming Setting



IDS LED Poultry Light Connection

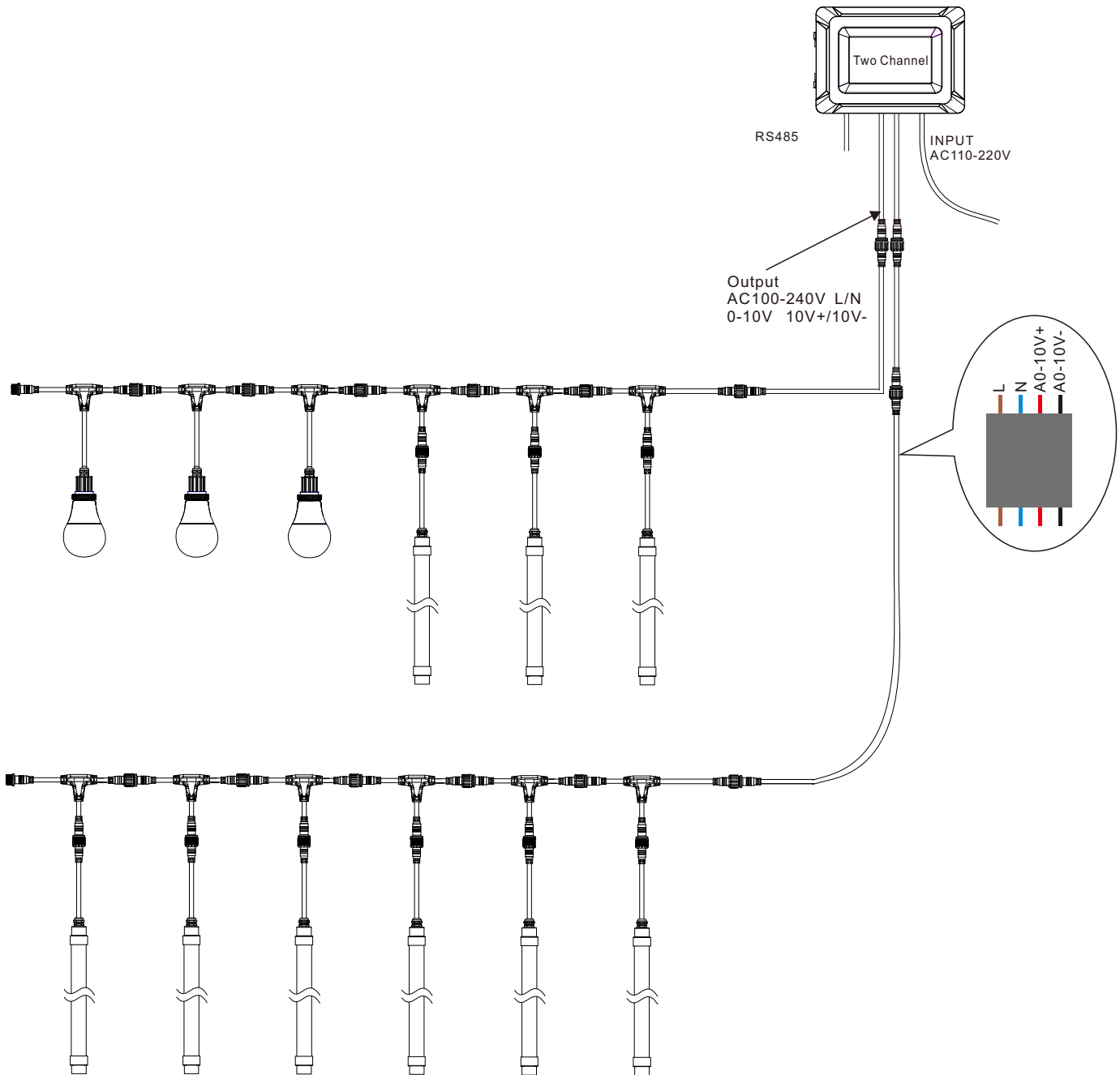
(Triac Leading Edge Dimming / BiMos Trailing Edge Dimming)





IDS LED Poultry Light Connection

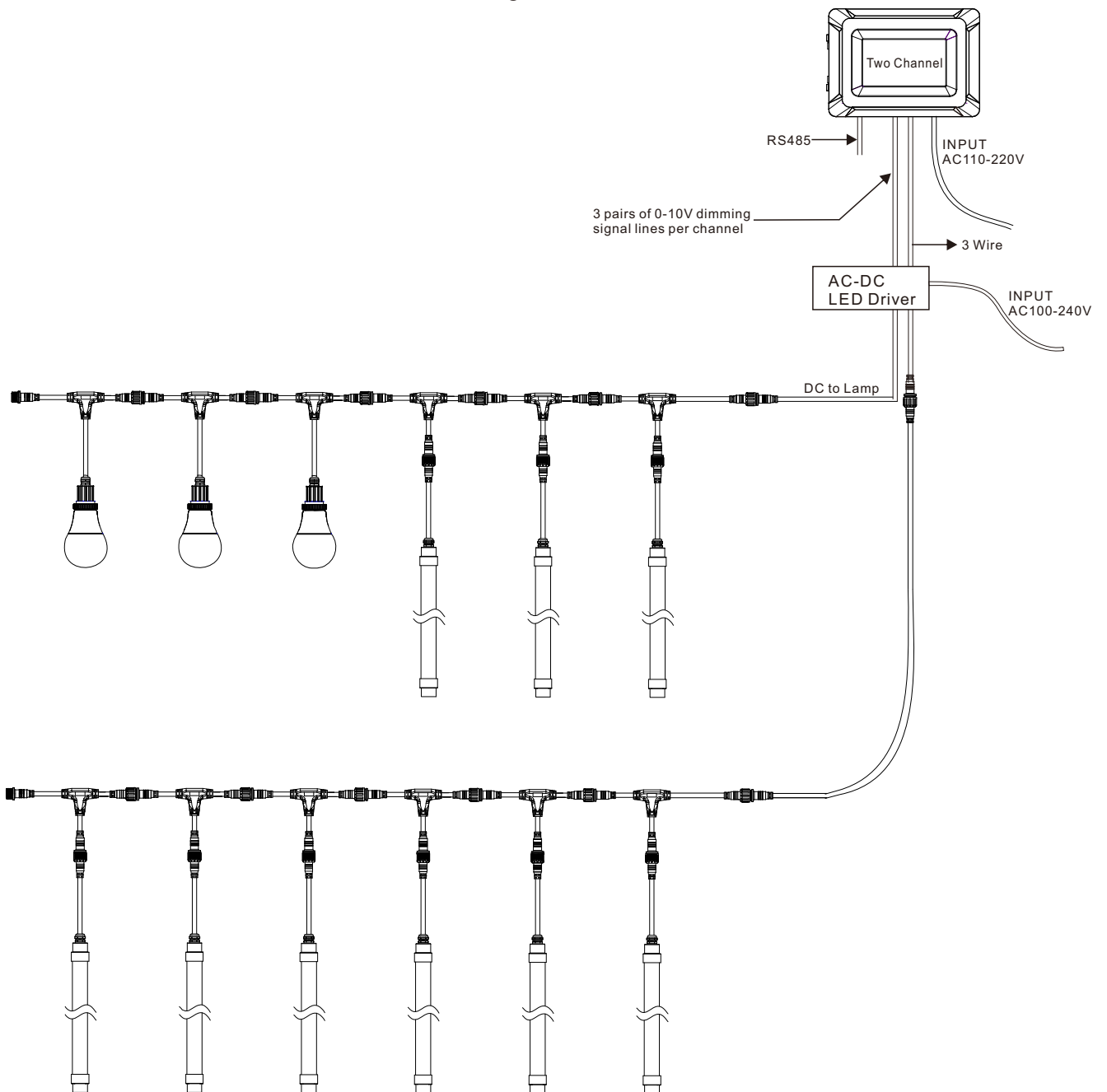
0-10V Dimming Scene One





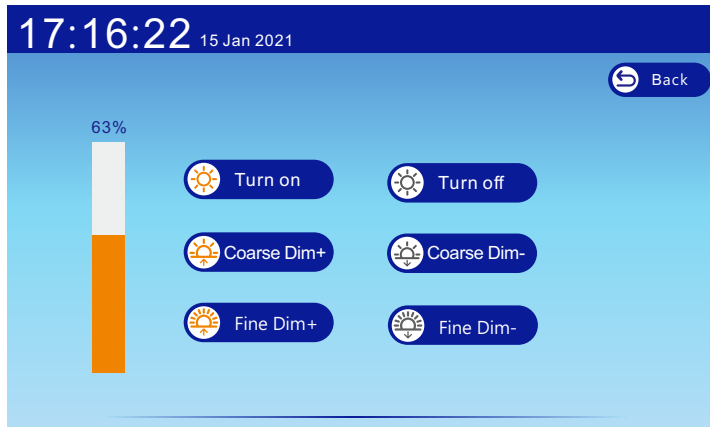
IDS LED Poultry Light Connection

0-10V Dimming Scene Two













Manual Dimming Control



2000W



4000W

1. Click the  **Brightness Option** button on the main interface, enter the password, and enter the “manual dimming Control” interface.
2. Click the  **Turn on** /  **Turn off** button to turn on/off the light
3. Click the  **Coarse Dim+** /  **Coarse Dim-** button to adjust the brightness by $\pm 5\%$
4. Click the  **Fine Dim+** /  **Fine Dim-** button to adjust the brightness by $\pm 1\%$
5. Click the  **Back** button to return to the main interface

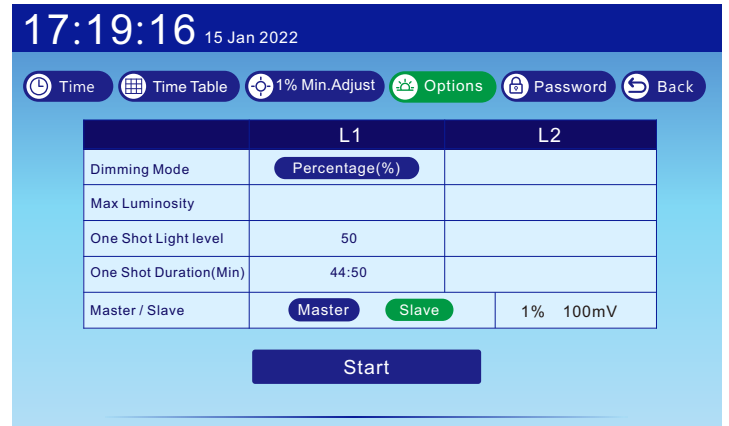
Notice:

When you click Turn on/off, Dim+/-, the light brightness will change very slowly in order to get a better smooth dimming to reduce the stress caused by sudden changes in light brightness.








Master & Slave



2000W




4000W

1. Click the  Settings button on the main interface, enter the password
2. Click the  Options button to switch to the master & slave setting interface
3. Click the  button or  button in the dimming mode column to set the dimming mode of the dimmer.
4. In Luminosity dimming mode, the MaxLuminosity column automatically pops up the maximum luminosity value, click to enter the number to set the maximum luminosity value.
5. Click  Master button to let the system work under "Master" mode
Click  Slave button to let the system work under "Slave" mode.
6. In "Slave" mode, it will automatically pops up the 1% Level Threshold,
Click  to enter the number to set the 1% Level Threshold.

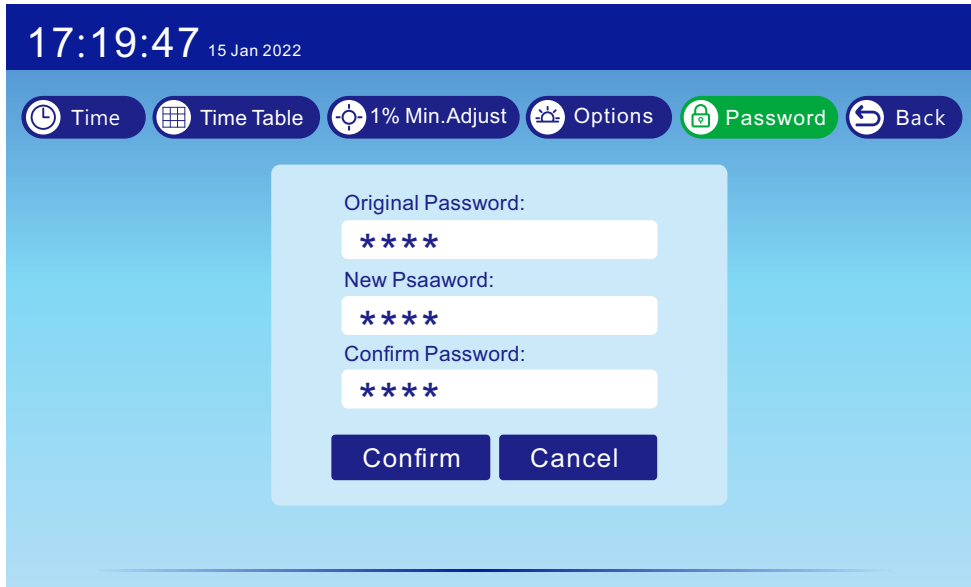
Notice:




When the dimmer is connected with the breeding central controller, the lowest 0-10V output voltage of some central controllers is 700mV. At this time, in order to shutdown the AC output of the dimmer for the 0-10V signal output by the central controller, the dimmer 0-10V Input 1% Shutdown Level Threshold can be set to 800mV.

How to Use “One Shot Light Level” and “One Shot Duration” ?

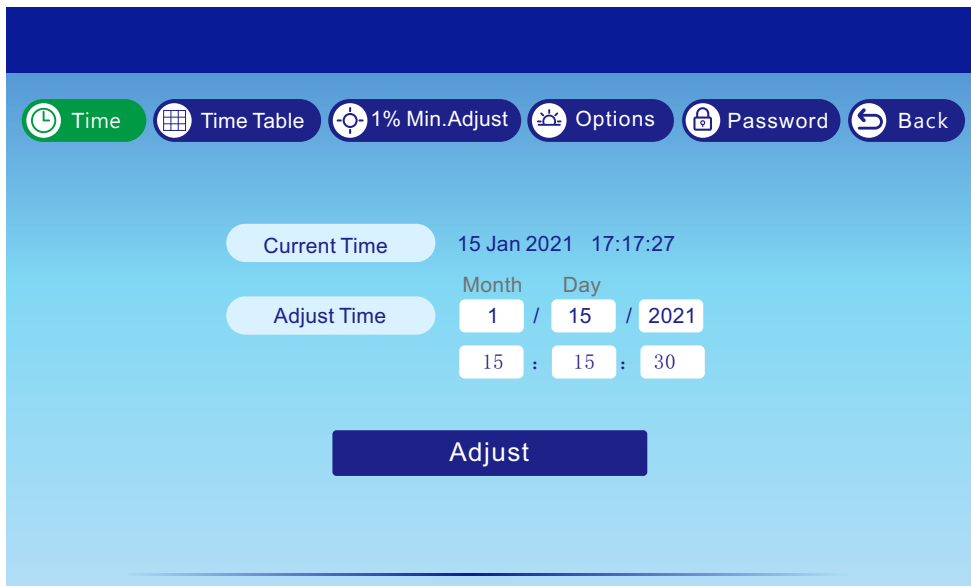
If you want to set the specific brightness temporarily for some purpose, for example, for cleaning work. Just input the brightness percentage and input the duration time. Click , then the light brightness will change to run what you've set. Once the time passes, the light brightness will automatically switch back to the original setting.






Password Setting



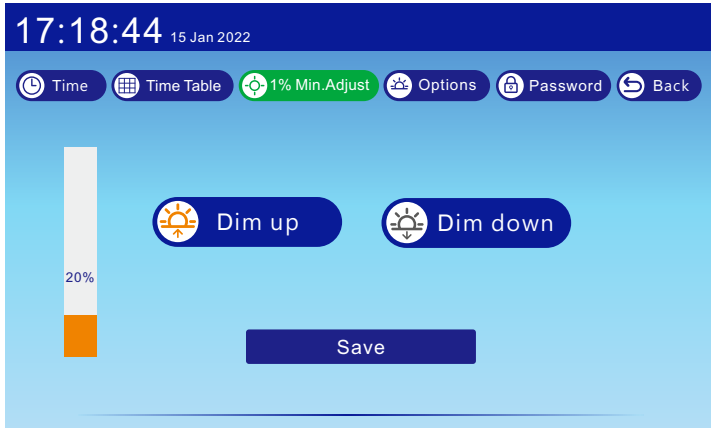
1. Click the  button on the main interface, enter the password
2. Click the  button to switch to the password setting interface
3. Original Password: 9528
4. Enter a new password, Re-enter the password to confirm.
5. Click  to complete the password setting.

Time Setting



1. Click the  button on the main interface, enter the password
2. Click the  button to set your local time.
3.  Displays the current date and time
4.  Enter the current date (month, day, year) and time (Hours, minutes, seconds)
5. Click  to complete the date and time setting.

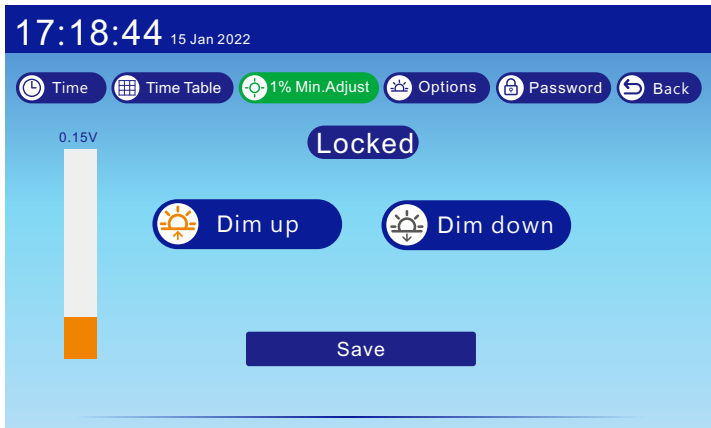
1% Min. Adjust



2000W








4000W



0-10V One Channel



0-10V Two Channel

1. Click the  Settings button on the main interface, enter the password
 2. Click the  1% Min.Adjust button to enter the 1% Min. Adjust interface
 3. When you enter this interface, the light level will automatically turn to brightness 1%.
For the output 0-10V dimmer, the interface is locked by default.
Before adjusting the 1% brightness, click the lock button and enter the password to unlock. The default password is 9528
- By clicking  Dim up or  Dim down or Slide the “Progress Bar”, you can adjust the 1% minimum brightness
4. Click  Save to complete the setting.

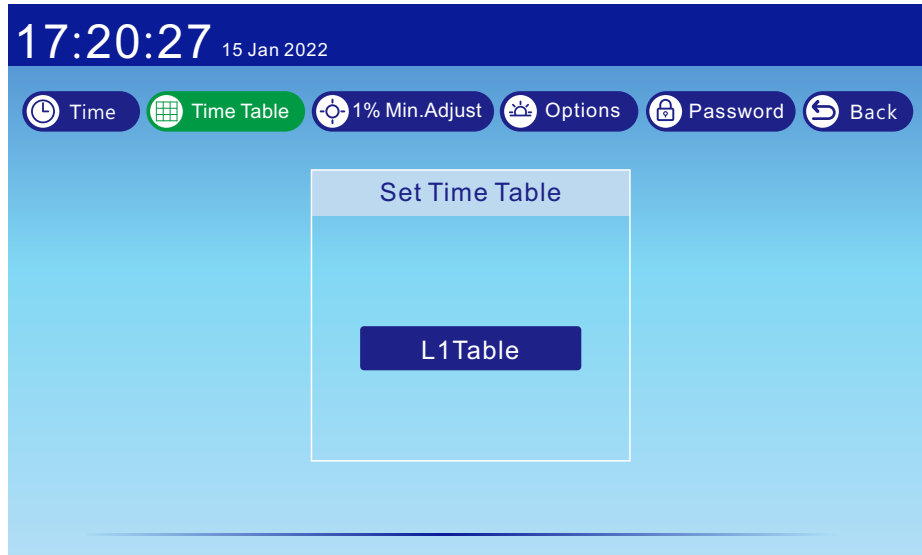
Notice:

The factory default 1%Min brightness is 100%, please adjust it to an appropriate value according to the light load.

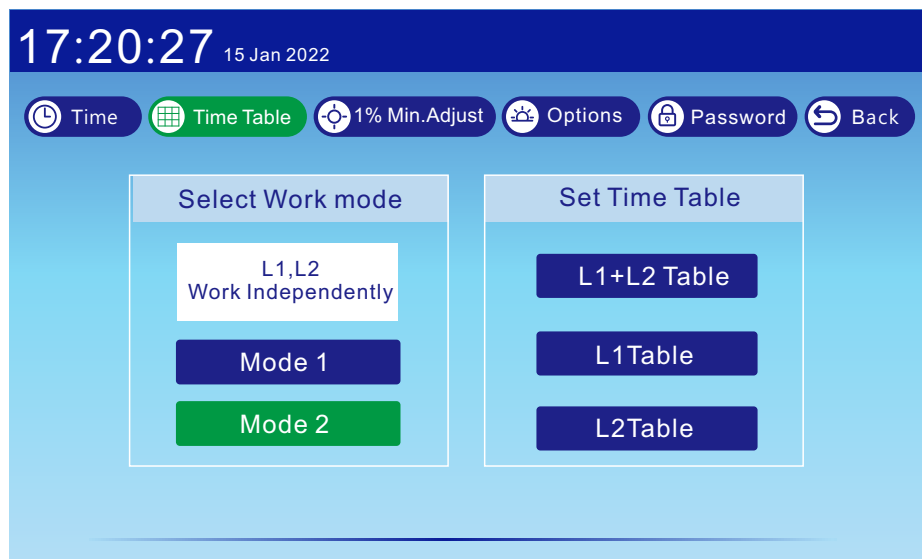
Before manual dimming, you need to set 1% Min Adjust to an appropriate value. It is recommended to set it to 30% for most LED lights.










Work Mode



2000W



4000W

1. Click the  button on the main interface, enter the password
2. Click the  button to enter the select work mode interface
3. Click , Output Line 1 and Line 2 will work in the same mode, then only  in the right side can be entered;
4. Click  Output Line 1 and Line 2 will work in different modes, then enter  and  into setting their respective modes.



Timetable

Month Day Year L1+L2-Table:

	Start Day	End Day	Hour	Min	Light Level	Ramp Minutes
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Page 1/10

Step 1: Setting the starting date(Month/Day/Year) of auto programming.

Step 2: Timetable Setting(Start Day/End Day/Hour/Min/Light Level/Ramp Minutes)

Step 3: After finishing timetable setting, click “ ” “ ”, the auto program will start to run.

Step 4: Enter “ ”, you will see the running status of Line 1 and Line 2 on the main interface.

You can set several different timetables according to your actual needs, and name it as Table 1 or 2 or 3... on top right corner, and save then by clicking “ ”.

Then you can choose any one of timetables and let it auto-run by clicking “ ”.

? Ramp Minutes:

The total time to achieve required “Light Level” from the starting time. The “Light Level” will gradually increase or decrease in “Ramp Minutes” to stimulate sunrise and sunset.

Notice:

1. After finishing time table setting, “ ” must be entered, then enter “ ” into setting in the next page.

2. If entering “ ”, the whole timetable in all page will restore to original status.



The following lighting program is for broilers, users can set own programs as the following sample.

Example for Timetable Setting

	Month	Day	Year	Start	L1+L2-Table:	
	1	1	2022	Start	1	
	Start Day	End Day	Hour	Min	Light Level	Ramp Minutes
1	1	7	1	45	50	15
2	1	7	10	45	100	15
3	1	7	23	0	0	15
4	8	52	6	45	65	15
5	8	52	10	45	10	15
6	8	52	23	0	0	15
7						
8						
9						
10						

Save
Clear
▲
Page 1/10
▼
Exit

Period 01 Running Status / 1st-7th Days

T01:02:00-10:45(50%)

T02:11:00-23:00(100%)

T03:23:15-01:45 (0%)

From 01:45-02:00, the light level will increase gradually from 0%-50% in 15 minutes.

From 10:45-11:00, the light level will increase gradually from 50%-100% in 15 minutes.

From 23:00-23:15, the light level will decrease gradually from 100%-0% in 15 minutes.

Period 02 Running Status / 8th-52nd Days

T04:07:00-10:45(65%)

T05:11:00-23:00 (10%)

T06:23:15-06:45(0%)

Above Steps are the same for setting other periods.

Notice:

Ramp Minutes for Rising and Dropping Time is 15mins according to Standard of Chicken farm lighting in RSPCA.

