

ECO INDUSTRIAL SUPPLIES

7 Oak Ave Clovelly Park South Australia 5042

Phone +0061 08 8276 5307 Mobile +0061 0458 158 777

ABN: 25 145 151 241



USER MANUAL

Intelligent Chicken Farm System



4500W

DIY Lighting Program
24 Hours/ Days Lighting Program Control

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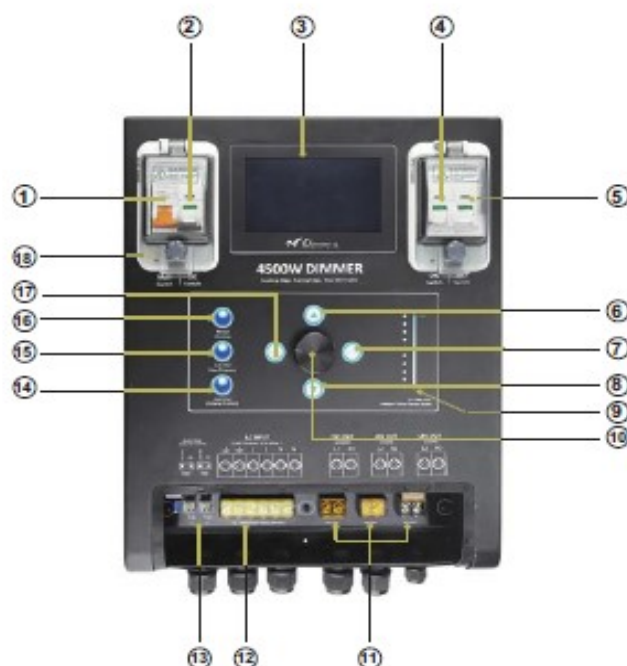
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Specific Parameters

Intelligent Chicken Farm System



No	Name	Description
1	Main Switch/C32	Emergency Switch 32A (C type)
2	CH1 Switch/B10	Channel 1 Breaker 10A (B type)
3	LCD	Display of information on the screen
4	CH2 Switch/B10	Channel 2 Breaker 10A (B type)
5	CH3 Switch/B10	Channel 3 Breaker 10A (B type)
6	UP	Selecting the operation objects
7	Enter	To next step or determining the operation objects
8	Down	Selecting the operation objects
9	Brightness Indicator	Displaying the current light brightness
10	Rotary Switch	Changing the light brightness and other parameters
11	CH1-3 Output Terminal	Connecting the lights
12	AC Input Terminal	Connecting L (Live Wire) and N (Neutral Wire)
13	0-10V signal connector	Connecting external 0-10V signal (Positive Type)
14	Auto-line (External Control)	Controlled by external 0-10V signal
15	Auto-self (User Program)	Setting users lighting program by itself
16	Manual Dimming	Dimming the brightness by Rotary Switch
17	Back	Moving to previous step
18	IP54 Box	Covering all the switches, IP54 Grade

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Specific Parameters

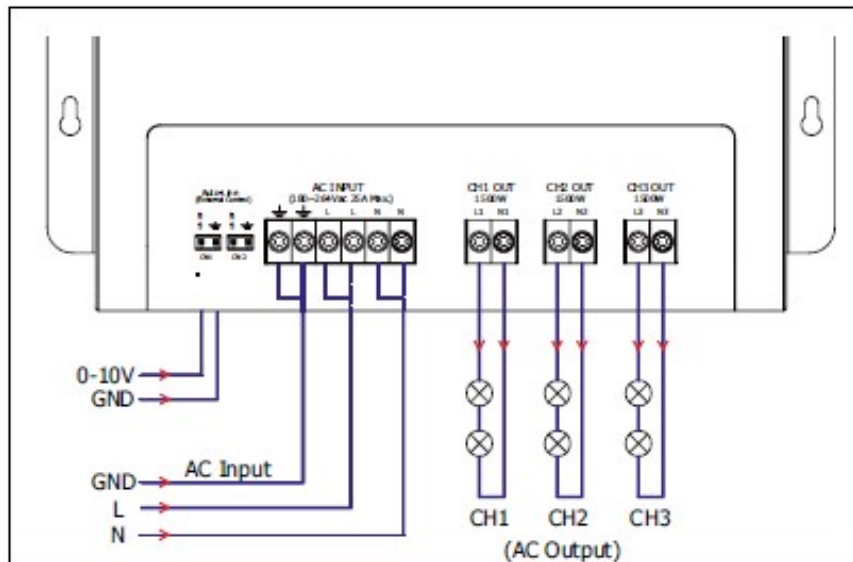
Intelligent Chicken Farm System

System Description:

AWG	mm ²	Rated Amp	Max. Amp	Suggested Power
18AWG	2x0.75mm ²	3.2A	3.7A	640W
16AWG	2x1.00mm ²	5.2A	5.9A	1040W
14AWG	2x1.50mm ²	8.2A	9.4A	1640W

- Three independent channels
- Manual brightness control
- Programmable brightness control by Auto-Self Setting
- Support system updating
- Support External Device Control
- Maximum output power for each channel: 1500W Rated

Lighting Connection:



Notice:

1. L and N shall be connected to reduce the Inrush voltage which could decrease the risk of dimmer damage.
2. The LCD would be standby with no operation in 30s, and LCD be off with no operation in 1 minute.
3. Switch Box is with IP54 Grade. It should be closed to prevent the dust or moist to go inside.

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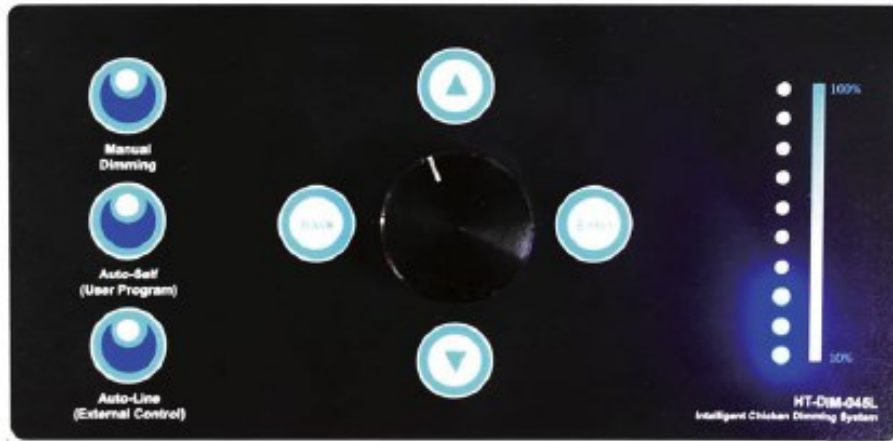
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Using Method

Intelligent Chicken Farm System



Press Manual Dimming, the red indicator will be ON, moving to Manual dimming.



Press Auto-Self, the red indicator will be ON, moving to Mode Setting.



Press Auto-Line, the red indicator will be ON, moving to External 0-10V signal control.



The blue indicator will be ON when the light brightness up to 10%. It will change as the brightness change.

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Using Method

Intelligent Chicken Farm System


Main Interface



-  Manual Dimming
-  Auto-Self Setting
-  System Setting

System Setting




 System Setting: Press this button to the local time setting. Using the UP and Rotary Switch to set the time in hh/mm/ss.



Manual Dimming



 Manual Dimming: Press this button to manual mode. In manual mode the users can set the light brightness percentage by rolling the Rotary Switch.



Auto-Self Setting



 Auto-self Setting: Press this button to user program setting.



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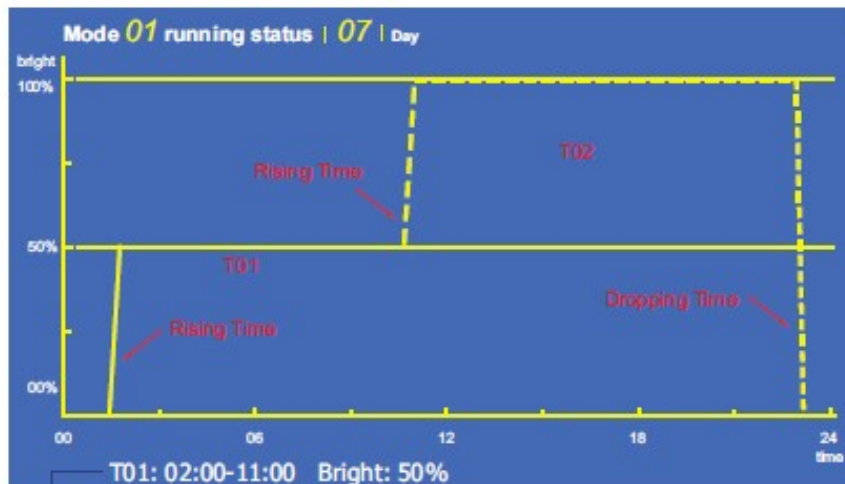


Using Method

Intelligent Chicken Farm System

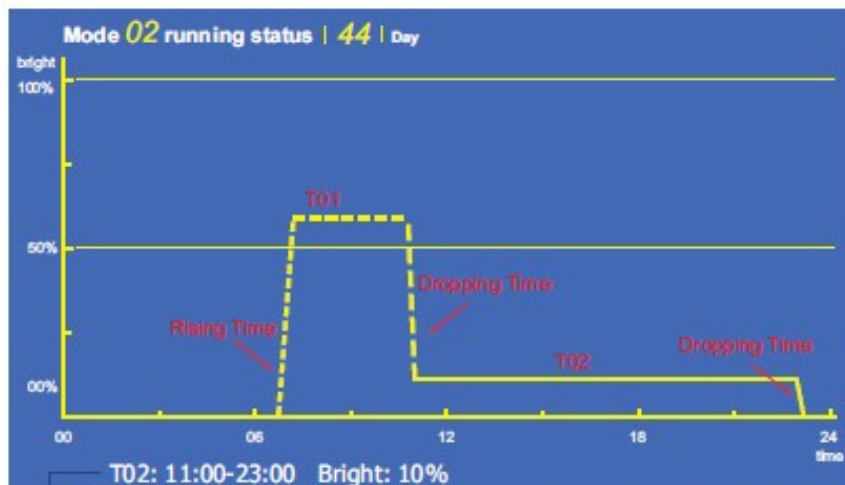
Example for Auto-Self Setting:

 The following lighting program is for broilers, users can set it's own programs as the following operation.



Current Working Status

M01 7 Days ▲
T01: 02:00-11:00 50%
T02: 11:00-23:00 100%



Current Working Status

M02 44 Days ▲
T01: 07:00-11:00 65%
T02: 11:00-23:00 10%

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Using Method

Intelligent Chicken Farm System

Step 1 Mode Setting under M01



- ① Setting the local time in System Setting
- ② Pressing UP or Down to select the operation objects.

① Setting the Days by rolling the Rotary Switch. (The range of the Days is from 0 to 120 days).

② Select "Edit" and press Enter to the Rising and Dropping time setting.

Notice: The program will be Auto-cycle run only the Days in "0" and Status "ON"

Step 2 Rising & Dropping Time Setting



③ Setting the Rising & Dropping Time by rolling the Rotary Switch.

④ Pressing Enter to M01 Setting.

Notice: Default Rising and Dropping Time is 15mins, according to Standard of Chicken farm lighting in RSPCA.

Step 3 M01 Lighting Program

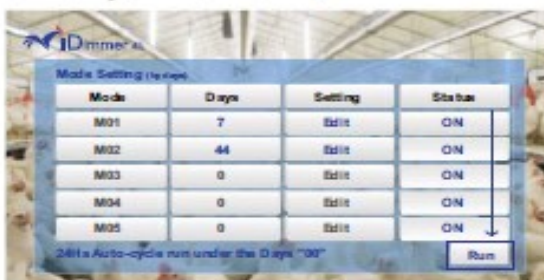


⑤ Setting the Start, End and Bright by rolling the Rotary Switch.

⑥ Pressing Enter back to Mode Setting.

Notice: Each End Time shall be the same as the next Start Time.

Step 4 M01 Running



⑦ Setting "ON" "OFF" by rolling the Rotary Switch.

⑧ Pressing Enter or Run to start the Model Lighting program.

Notice:

- Only the "status" ON, the Mode Lighting Program will be run.
- The M01 program will move to M02 under the M01 Days ≥ 1 and the Status "ON".
- The program M01 to M05 will be continuously run under all the Status "ON".

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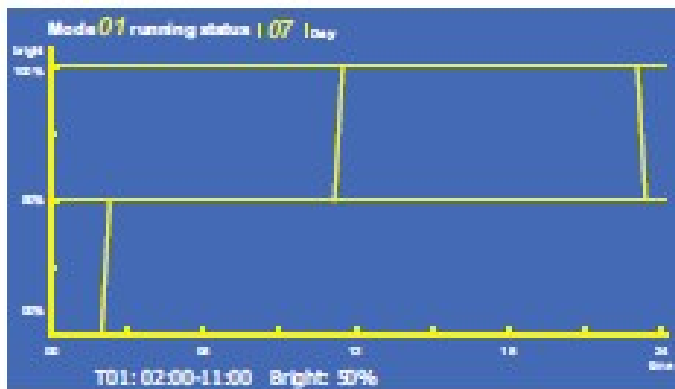
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Step 5

Lighting Program Curve



Ⓢ The lighting program will run according to the M01 setting.

Notice: The dimmer will Auto-cycle run after all Modes Program finished, the default brightness is 50%.



Above steps are the same for setting M02-M05

Program Updating



Program Updating by USB (More information, please contact us)