USER MANUAL

Intelligent Chicken Farm System

iDimmer 4L

4500W DIY Lighting Program
24 Hours/ Days Lighting Program Control
Specific Parameters

Intelligent Chicken Farm System

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Main Switch/C32</td>
<td>Emergency Switch 32A (C type)</td>
</tr>
<tr>
<td>2</td>
<td>Ch1 Switch/B10</td>
<td>Channel 1 Breaker 10A (B type)</td>
</tr>
<tr>
<td>3</td>
<td>LCD</td>
<td>Display of information on the screen</td>
</tr>
<tr>
<td>4</td>
<td>CH2 Switch/B10</td>
<td>Channel 2 Breaker 10A (B type)</td>
</tr>
<tr>
<td>5</td>
<td>CH3 Switch/B10</td>
<td>Channel 3 Breaker 10A (B type)</td>
</tr>
<tr>
<td>6</td>
<td>UP</td>
<td>Selecting the operation objects</td>
</tr>
<tr>
<td>7</td>
<td>Enter</td>
<td>To next step or determining the operation objects</td>
</tr>
<tr>
<td>8</td>
<td>Down</td>
<td>Selecting the operation objects</td>
</tr>
<tr>
<td>9</td>
<td>Brightness Indicator</td>
<td>Displaying the current light brightness</td>
</tr>
<tr>
<td>10</td>
<td>Rotary Switch</td>
<td>Changing the light brightness and other parameters</td>
</tr>
<tr>
<td>11</td>
<td>CH1-3 Output Terminal</td>
<td>Connecting the lights</td>
</tr>
<tr>
<td>12</td>
<td>AC Input Terminal</td>
<td>Connecting L (Live Wire) and N (Neutral Wire)</td>
</tr>
<tr>
<td>13</td>
<td>0-10V signal connector</td>
<td>Connecting external 0-10V signal (Positive Type)</td>
</tr>
<tr>
<td>14</td>
<td>Auto-line (External Control)</td>
<td>Controlled by external 0-10V signal</td>
</tr>
<tr>
<td>15</td>
<td>Auto-self (User Program)</td>
<td>Setting users lighting program by itself</td>
</tr>
<tr>
<td>16</td>
<td>Manual Dimming</td>
<td>Dimming the brightness by Rotary Switch</td>
</tr>
<tr>
<td>17</td>
<td>Back</td>
<td>Moving to previous step</td>
</tr>
<tr>
<td>18</td>
<td>IP54 Box</td>
<td>Covering all the switches, IP54 Grade</td>
</tr>
</tbody>
</table>

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Specific Parameters

Intelligent Chicken Farm System

System Description:

<table>
<thead>
<tr>
<th>AWG</th>
<th>mm²</th>
<th>Rated Amp</th>
<th>Max. Amp</th>
<th>Suggested Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>18AWG</td>
<td>2x0.75mm²</td>
<td>3.2A</td>
<td>3.7A</td>
<td>640W</td>
</tr>
<tr>
<td>16AWG</td>
<td>2x1.00mm²</td>
<td>5.2A</td>
<td>5.9A</td>
<td>1040W</td>
</tr>
<tr>
<td>14AWG</td>
<td>2x1.50mm²</td>
<td>8.2A</td>
<td>9.4A</td>
<td>1640W</td>
</tr>
</tbody>
</table>

- 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.
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.
Using Method

Intelligent Chicken Farm System

Main Interface

System Setting

Manual Dimming

Auto-Self 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: 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: 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 its own programs as the following operation.

**Mode 01 Running Status**
- **01:** Day
- **T01:** 02:00-11:00, Bright: 50%
- **T02:**

**Mode 02 Running Status**
- **02:** Day
- **T01:** 11:00-23:00, Bright: 16%
- **T02:**

**Current Working Status**

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

- **M02:** 44 Days
- **T01:** 07:00-11:00, 65%
- **T02:** 11:00-23:00, 10%
Using Method

Intelligent Chicken Farm System

Step 1
Mode Setting under M01

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

Step 2
Rising & Dropping Time Setting

- Setting the Rising & Dropping Time by rolling the Rotary Switch.
- Pressing Enter to M01 Setting.

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

Step 3
M01 Lighting Program

- Setting the Start, End and Bright by rolling the Rotary Switch.
- Pressing Enter back to Mode Setting.

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

Step 4
M01 Running

- Setting "ON" "OFF" by rolling the Rotary Switch.
- Pressing Enter or Run to start the Mode 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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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)