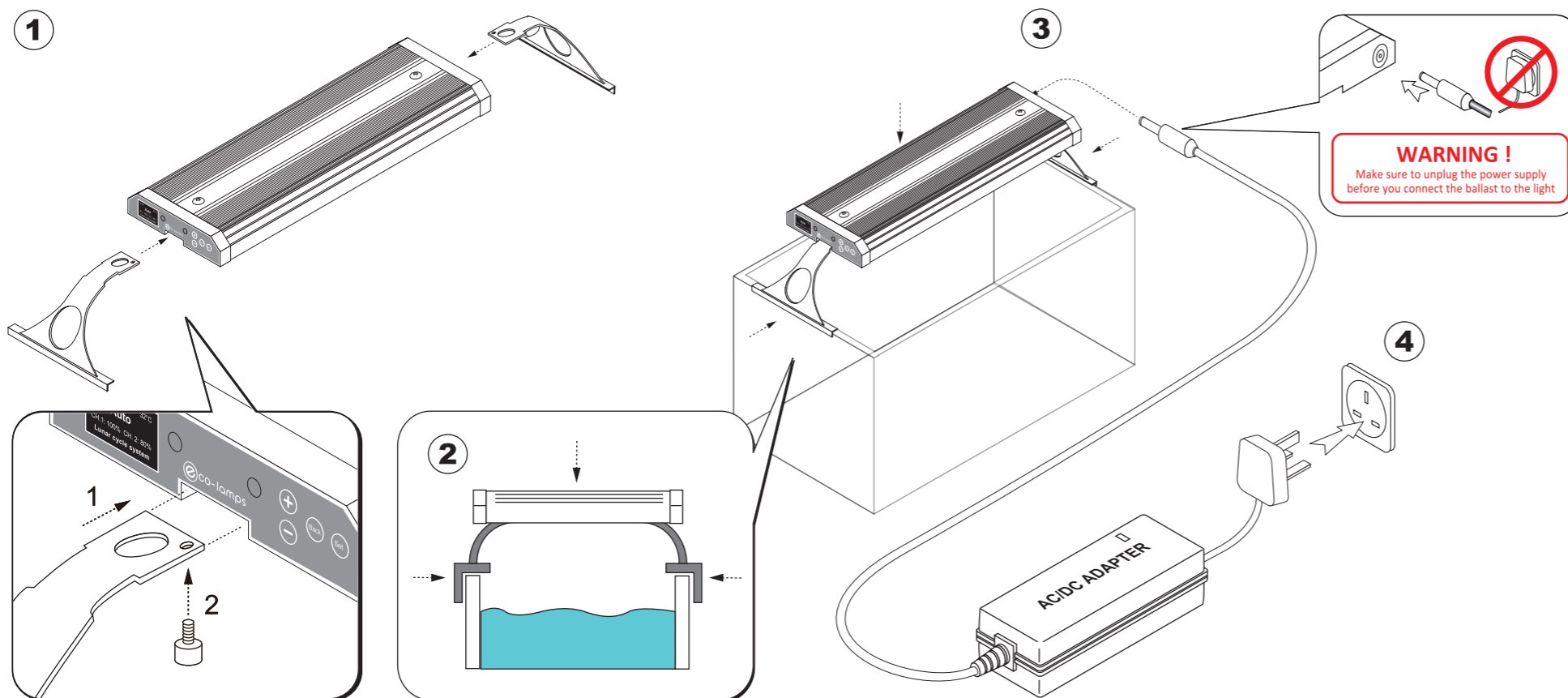
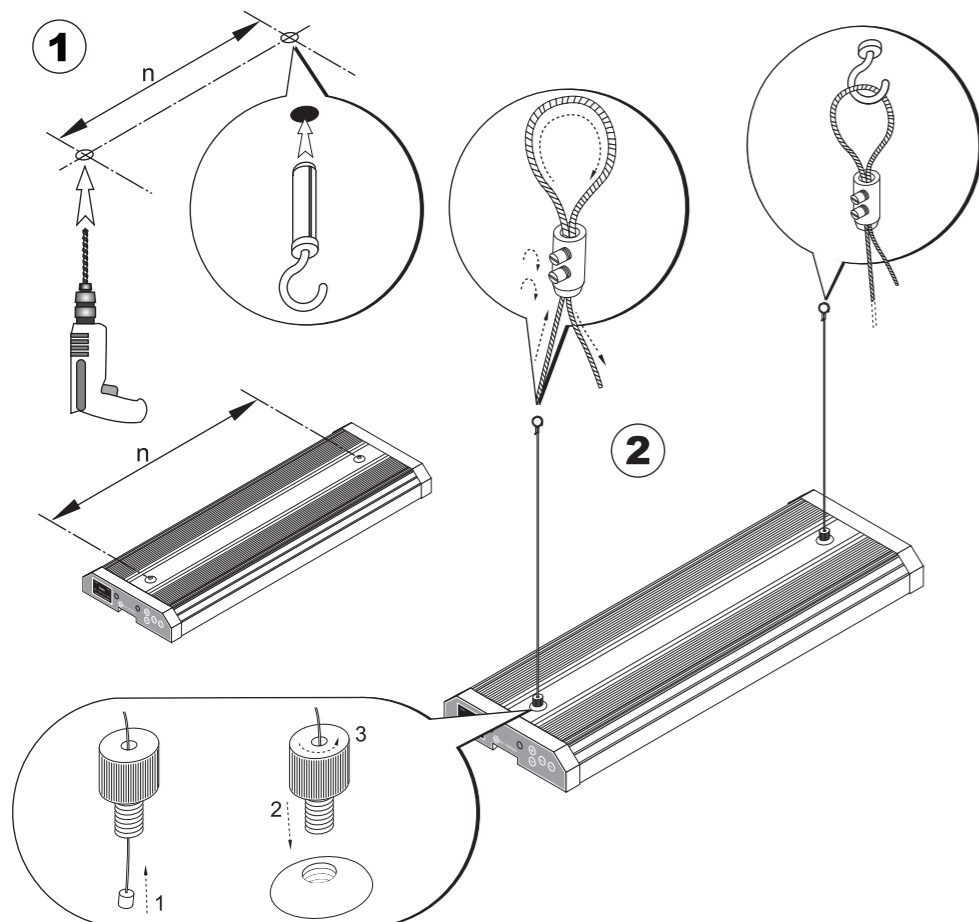


Installation method 1. Adjustable width tank mounts

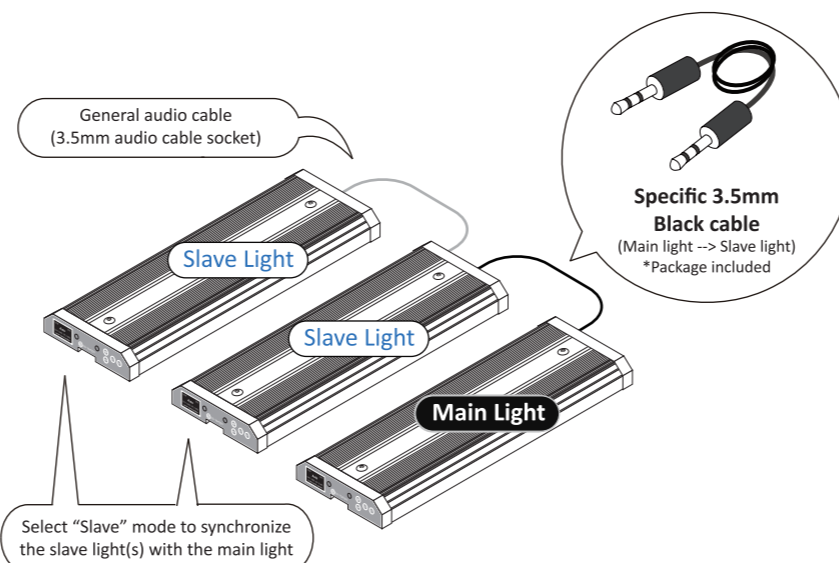


KR90 Series
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Installation method 2. Ceiling mounts



Multiple connection



You may be able to connect several lights to each others. To do so, you need to connect the main light to a slave light by a specific 3.5mm Black cable which is included in the package. Please use a general 3.5mm audio cable for connecting between the slave light(s). Meanwhile the slave light(s) should be changed to "Slave" mode.

"Slave" mode
Press "+ / -" button to select "Slave" mode in the light menu.

FEATURES

- Heat is radiated away from water
- Fluorescent light / Metal Halide replacement
- Reliable, advanced and efficient aquarium illumination
- Specific LED light penetration
- Long life time, energy saving

SAFETY INSTRUCTIONS

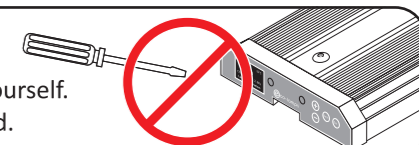
- Make sure the power cord meets all relevant local safety standards
- Place the light near a wall outlet where the power cord can be easily unplugged
- Do not let the power cord become damaged or frayed
- Do not place the light near heaters
- Do not extend the wire. Doing this might affect the operation of the light
- Do not expose to direct sunlight or excessive heat

WARNING

- To prevent electrical shock, make sure you have unplugged the power cord from the electrical socket before cleaning the light
- To avoid electric shock, please do not touch the cord with wet hands

CAUTION

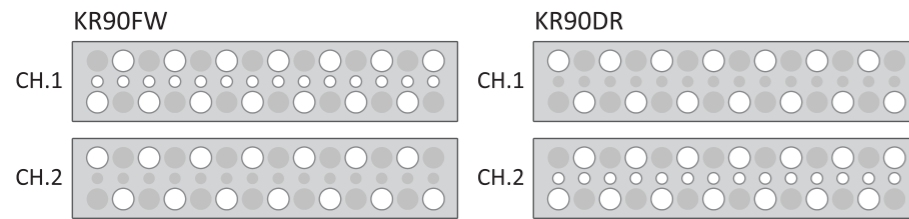
DO NOT attempt to service the fixture yourself. Doing this may render this warranty void.



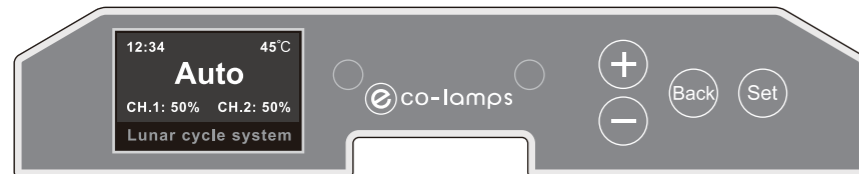
USER'S GUIDE

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Light channel



Control panel

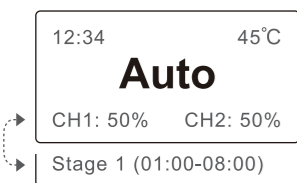


1. Button

- Press to scroll through the menus and options
- Use this key to cancel or back to previous page
- Use this key to select or enter

2. Light mode

Press to toggle 6 light modes in the menu.

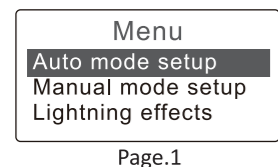


- Auto** 7 programmable light stages
- Manual** Manual setting of 1ch & 2ch (0-100%)
- Demo** Demonstration mode of a light display
- Thunder** LED blink to simulate the thunder effect
- OFF** LED stop operation
- Slave** Synchronize with the main light

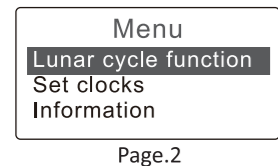
3. Menu

In homepage, press to enter the menu.

Press to toggle 6 items (2pages) in the menu.

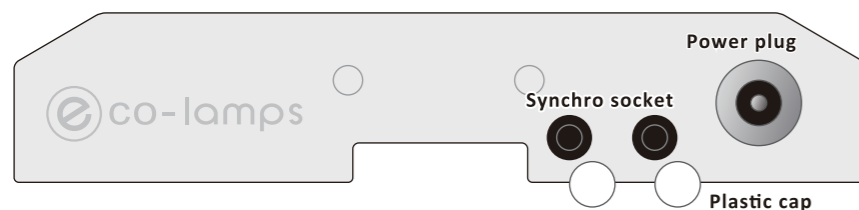


- Auto mode setup** Auto mode setting
- Manual mode setup** Manual mode setting
- Lightning effects** Lightning effect setting
※ Operate in auto mode only



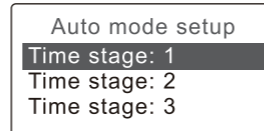
- Lunar cycle function** Lunar cycle setting
- Set clocks** Set date & time
- Information** Reset light settings & info. of firmware

Back side

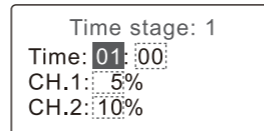


In order to use the synchro function, remove the plastic caps of synchro socket on the back of the light. Please connect the main light to a slave light by a specific 3.5mm Black cable which is included in the package.

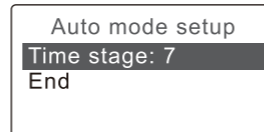
Auto mode setup



- 1) Select **Auto mode setup**, press to enter
- 2) Select **Time stage: 1**, press to enter Time stage 1
- 3) In the setting of **Time stage: 1 ~ Time stage: 7**

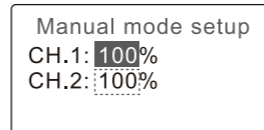


- Select **Time**, press to enter time setting
- press to edit begin time of each time stage
- Select **CH.1** / **CH.2**, press to enter CH. setting
- press to edit intensity of CH.1 / CH.2 0-100%



- 4) Select **End**, press to set the end time of the light
- 5) Press return to homepage and setting is complete

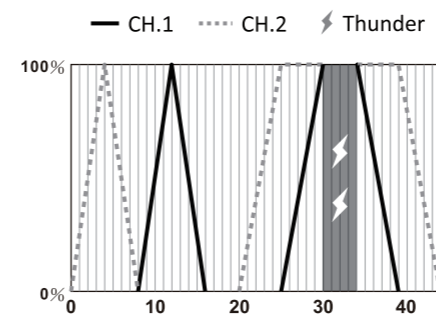
Manual mode setup



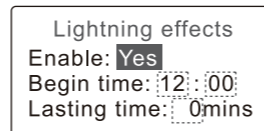
- 1) Select **Manual mode setup**, press to enter
- 2) Select **CH.1** / **CH.2**, press to enter CH. setting
- press to edit intensity of CH.1 / CH.2 0-100%
- 3) Press return to homepage and setting is complete

Demo mode

1. CH.2 0% → 100% → 0% (8s)
2. CH.1 0% → 100% → 0% (8s)
3. OFF (4s)
4. CH.2 0% → 100% (5s)
5. CH.1 0% → 100% (5s)
6. Thunder (2 times / 4s)
7. CH.1 100% → 0% (5s)
8. CH.2 100% → 0% (5s)



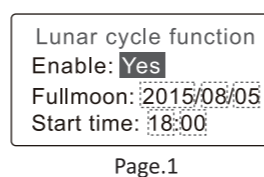
Lightning effects



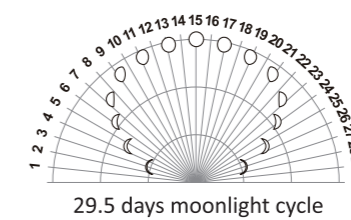
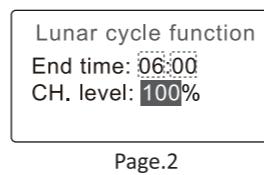
- 1) Select **Lightning effects**, press to enter
- 2) Select **Yes** to turn on lightning effects
- To stop the lightning effects, please select **No**

- 3) Select **Begin time**, press to edit the begin time of lightning effect
- Press to set the time: 12:00
- 4) Select **Lasting time**, press to edit the lasting time of lightning effect
- Press to set the lasting time: 10:mins
- 5) Press return to homepage and setting is complete

Lunar cycle function



- 1) Select **Lunar cycle function**, press to enter
- 2) Select **Yes** to turn on lunar cycle function
- To stop the lunar cycle function, please select **No**
- 3) Select **Fullmoon**, press to set the date of fullmoon
- Press to set the date (Y/M/D) 2015 08 05 ※
- 4) Select **Start time**, press to edit the time: 18:00
- 5) Select **End time**, press to edit the time: 06:00
- 6) Select **CH. level**, press to set brightness of fullmoon 0-100%
- 7) Press return to homepage and setting is complete



29.5 days moonlight cycle

※ Fixed 29.5 days cycle on the Moonlight

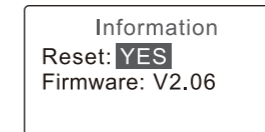
KR90 feature an advanced programmable controller that simulates the natural cycle of moonlight. Once you set a fullmoon date and turn on the lunar cycle function, the light will start running "29.5 days cycle" according to the fullmoon date.

Set clocks



- 1) Select **Set clocks**, press to enter
- 2) **Date**: Press to set the date (D/M/Y)
- 3) **Time**: Press to set the time (Hour:Minute)
- 4) Press return to homepage and setting is complete

Information



- 1) Select **Information**, press to enter
- 2) **Reset**: Press **Yes** to reset all settings to factory default
- ※ **Firmware**: Check the KR90 current firmware version

| Auto mode setting (Factory default setting) | | | | | |
|---------------------------------------------|------------|--------|--------|--------|--------|
| Time stage | Begin time | KR90DR | | KR90FW | |
| | | CH.1 % | CH.2 % | CH.1 % | CH.2 % |
| Time Stage: 1 | 00:00 | 02 | 04 | 04 | 02 |
| Time Stage: 2 | 06:00 | 10 | 20 | 20 | 10 |
| Time Stage: 3 | 08:00 | 40 | 60 | 60 | 40 |
| Time Stage: 4 | 10:00 | 80 | 100 | 100 | 80 |
| Time Stage: 5 | 14:00 | 80 | 80 | 80 | 80 |
| Time Stage: 6 | 16:00 | 60 | 40 | 40 | 60 |
| Time Stage: 7 | 18:00 | 02 | 04 | 04 | 02 |
| End | 00:00 | | | | |

Remark

When the light mode is changing, it may take a few seconds to a few minutes to reach the programmed brightness level.

Examples of wrong setting

"Time Stage 1" begin time: 07:00, "Time Stage 2" begin time: 06:00, "Time Stage 3" begin time: 09:00. In this case, "Time Stage 2" will be skipped, please set the begin time between "Time Stage 1" & "Time Stage 3"

ACCESSORIES

