Lumen Light for Aquascaping

Wifi App controller (WF-C)
User manual

iMicMol
Application

Available on the App Store

GET IT ON Google Play

Contents

Technical information

- Distributor: Lumen Aquatech DOO
- Type: FullColor Wifi (WRGB) controller
- Reference setting: WRGB 100%
- Input voltage 24 Volt DC
- Output voltage 24 Volt DC
- IP protection level: IP20
- Number of channels: 4 channels
- Current: max 15 A
- Max power: 360 Watt (with 24V DC)
- Standby power consumption Psb <0.5W
- Width: 40 mm
- Length: 100 mm
- Height: 20 mm
- Weight: 0,2 kg
- Input : GX16 2P plug
- Output GX16 7P plug
- Expand connection: 12 V Micro USB
- Expand connection: 24 V USB C
- Connections: Wi-Fi 2.4G + Bluetooth 2.4G + Broadcast 2.4G
- Color: Black
- Mobile application: Android + iOS

DC 12V
Expand
connection

DC 24V
Expand
connection

DC 24V
input

DC 24V
output
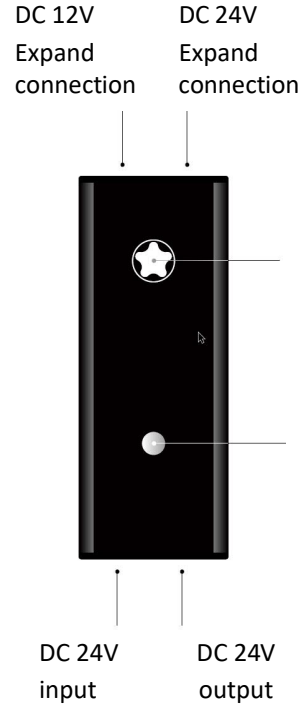
Indicator

○ White flash slowly
Waitnig for pairing

● White constant
Paired + Device is online

●● Flash alternately
Factory reset

● Red constant
Linkage Mode – Receiver Mode

Button

▭ Hold on 3 seconds
Factory reset

●● Double-Press
Mod switch

●●● Triple-Press
Linkage Mode – Receiver Mode

Introduction , features and installation of the LED controller

Cloud-based service that connects you to all your controller devices, and easy control them from anywhere.

There are three modules of Wi-Fi (2.4G) + Bluetooth (2.4G) + Broadcast (2.4G), which makes the connecting easy and fast.

The expands plugs can be used for more devices such as Pump, Fan, background light, mist maker,

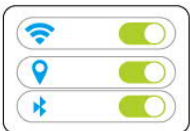electromagnetic valve etc. These posibilities makes the lighting become more powerful.

Pairing
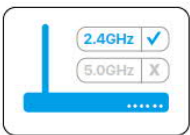
1.   Supports only 2.4GHz Router
Confirm the home router Wi-Fi signal type
because a 2.4HGz Wi-Fi is required to
add a device.

2.   Input correct Wi-Fi password
Wrong password is the main reason why
pairing fails. Please check your
password and try again.

3.   Turn on the permission access
To ensure successful pairing, we suggest
you enable the following access permmission:
Location, Wi-Fi, Bluetooth etc.
The location is very improtant for pairing the device.

4.   Internet required
Registering the device to the smart cloud service
is required or pairing will fail.

Pairing (Router is required and must be connected to the Internet. Press and hold the button on the device for 3 seconds to restore the factory settings. The light should blink white when the device is ready for pairing and the device you want to add will appear in the application. If the light is not blinking white slowly, press and hold the button on the device again for 3 seconds.)

❶

Download and Open
iMicMol APP to Add Device

❷
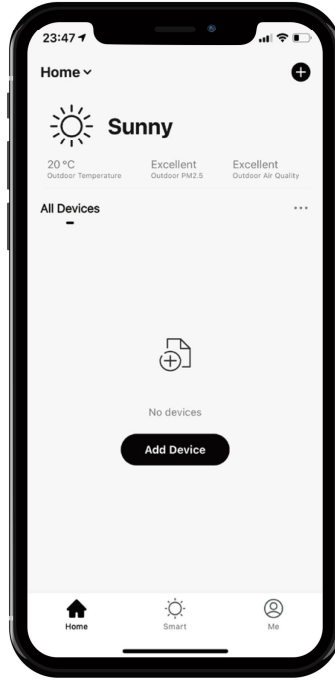
Tap "Add Device" to continue

❸

Choose "Auto Scan", the device
will appear automatically

❹

Enter your Router's Password
(Home Router)
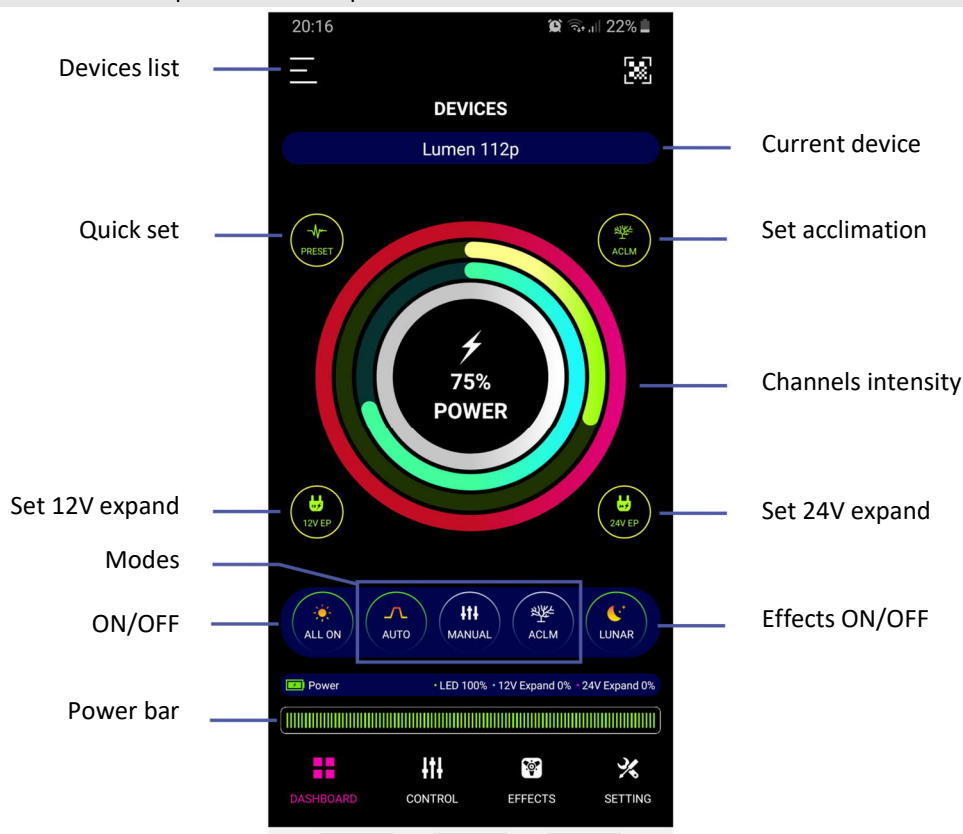
❺

Waiting for register Device
to Smart Cloud

❻

Turn "ON" to control your light
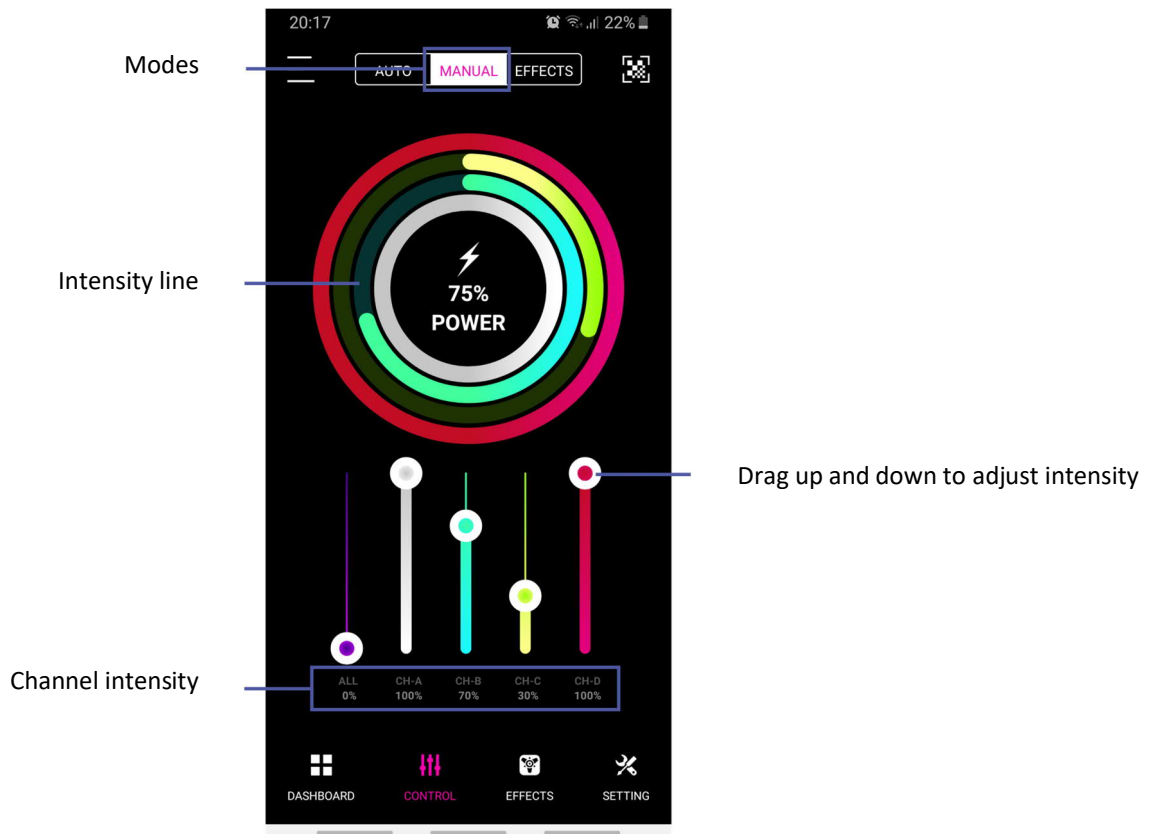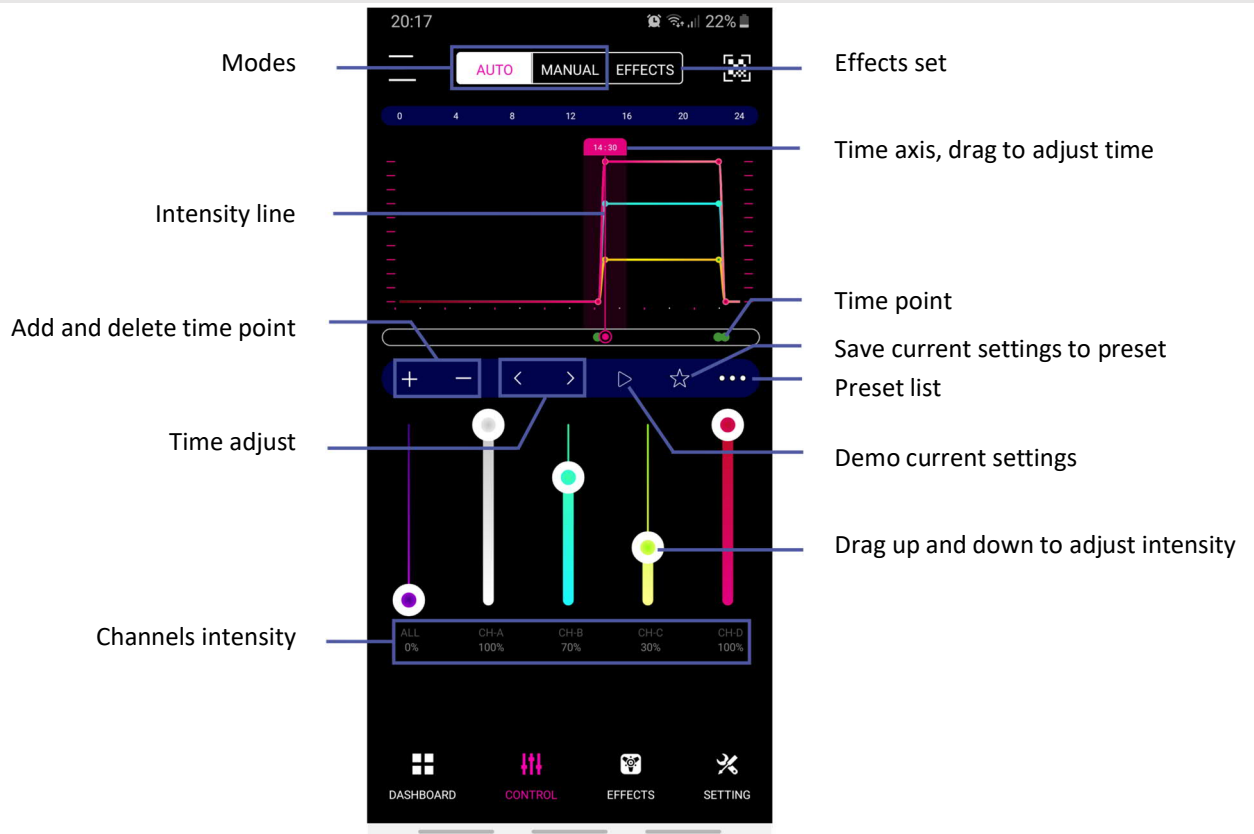after paired.

Safety instructions

- The device is only usable with the light units produced by Lumen Aquatech DOO.
- Connecting different types of lighting devices is forbidden.
- The controller can only be safely removed or connected to the lamp with the power cable unplugged.
- Do not extend or connect the cables in a non-standard way.
- The light source emits heat during operation, thus it should not be used near flammable materials.
- The device must be protected from strong impurities and rough external influences.
- Furthermore, knocking, drilling or modifying it in any way is strictly forbidden!
- It's also forbidden to use or to install it with any electronic product with a broken or defective connectors!
- Devices operating on 12 or 24 volts of extra low voltage must NOT be connected to the 230V main power source, because of the high risks of electric shock, accident and fire! The device can only be connected to the power supply specified by Lumen Aquatech DOO! Failure caused by supplying the device with incorrect voltage is not a warranty defect!
- Covering the device is flammable, thus strictly forbidden! When installing such products, make sure that the unit is well ventilated.
- In humid environments, only use suitable products with IP44 or higher intrusion protection.
- Products with protection below IP44 can cause electric shock in humid, wet environments!
- Never touch wet / humid electronic devices under voltage!
- To protect children, store electronic devices out of their reach!
- Never look directly into the light source!
- Electrostatic discharges (ESD) may damage internal electronic components!
- Ignoring the instructions given in this guide may result in fire, electric shock, burns, personal injury, and other property and non-property related damage.
- Our company cannot be held responsible for the lack of compliance with this guide.

About the application

On the Dashboard, you can quickly set the wanted program. You can switch the lamp ON/OFF, set the lighting intensity, effects, expands, and controll all the aspects of the lamp

Devices list — **DEVICES**

Current device — Lumen 112p

Quick set — PRESET

Set acclimation — ACLM

Channels intensity — 75% POWER

Set 12V expand — 12V EP

Set 24V expand — 24V EP

Modes — AUTO / MANUAL / ACLM

ON/OFF — ALL ON

Effects ON/OFF — LUNAR

Power bar — Power · LED 100% · 12V Expand 0% · 24V Expand 0%
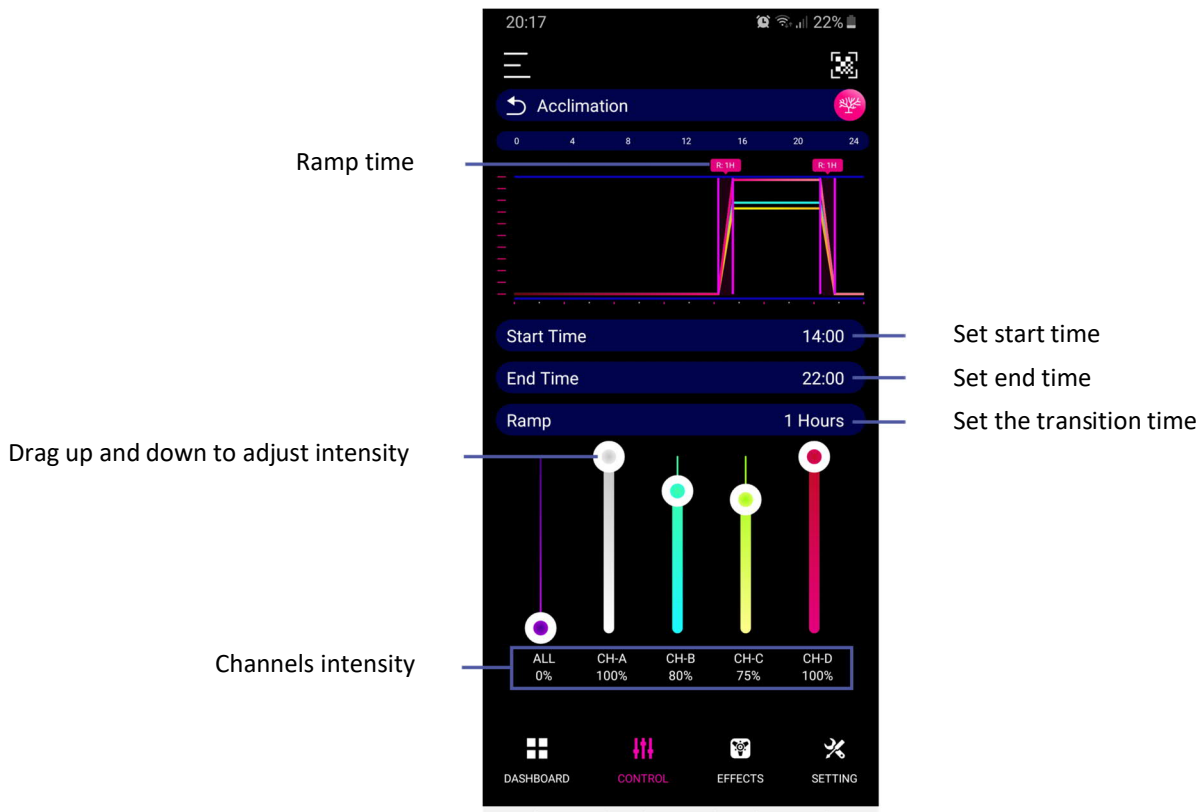
DASHBOARD   CONTROL   EFFECTS   SETTING

There are two modes, Auto and Manual mode with 4 channels to make various lighting settings.
(The device's auto settings can be viewed on our Lumen Aquatech youtube channel)

Modes

Effects set

Time axis, drag to adjust time

Intensity line

Time point

Add and delete time point

Save current settings to preset

Preset list

Time adjust

Demo current settings

Drag up and down to adjust intensity

Channels intensity

20:17

AUTO MANUAL EFFECTS

14:30

ALL 0%   CH-A 100%   CH-B 70%   CH-C 30%   CH-D 100%

DASHBOARD   CONTROL   EFFECTS   SETTING

Modes

Intensity line

Drag up and down to adjust intensity

Channel intensity

20:17

AUTO MANUAL EFFECTS

75%
POWER

ALL 0%   CH-A 100%   CH-B 70%   CH-C 30%   CH-D 100%

DASHBOARD   CONTROL   EFFECTS   SETTING

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By adjusting the effects, you can set acclimatization, lightning, lunar, and cloudy weather, to simulate the natural lighting for the aquarium life.

Modes

Acclimation

Lunar

Lightning

Cloudy
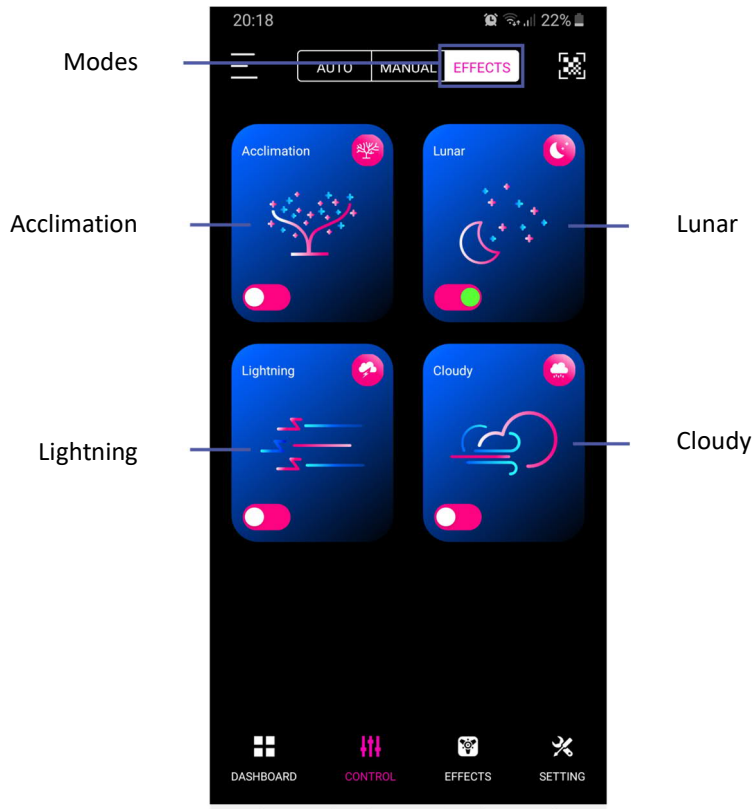
With acclimatization, we can easily set a daily period.
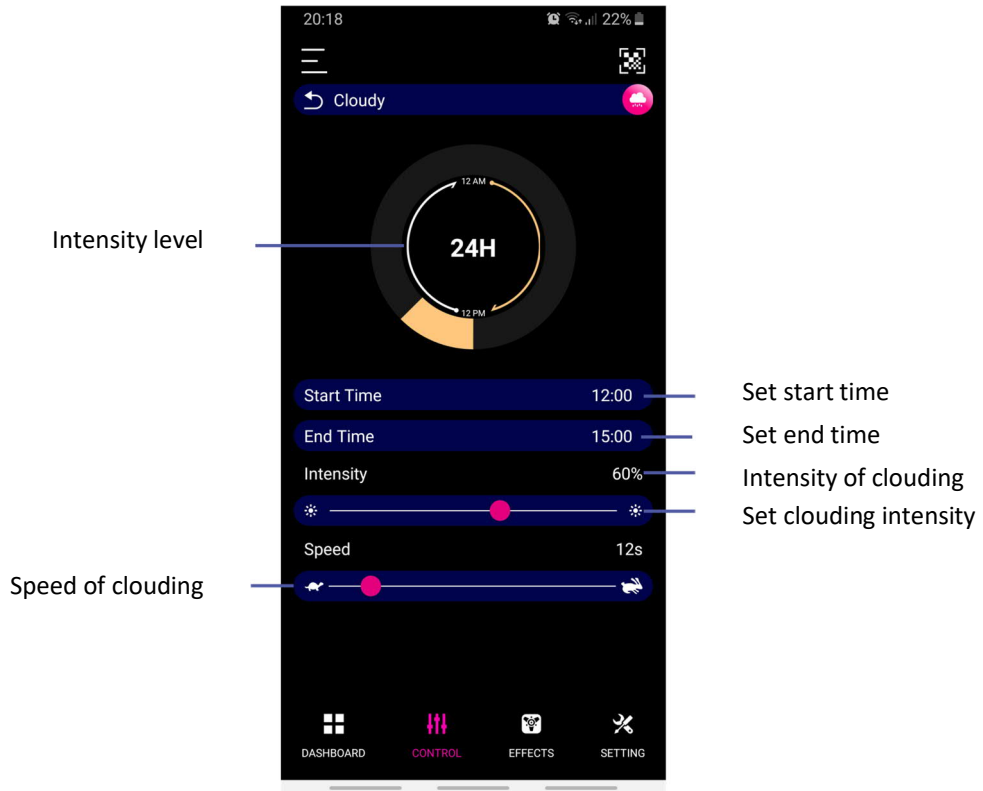This is a simplified form of the automatic function.

Ramp time

Set start time

Set end time

Set the transition time

Drag up and down to adjust intensity

Channels intensity

With the lunar effect, you can adjust the period and intensity of the night light.
From the 4 channels, you can choose the color that best suits us for night lighting.
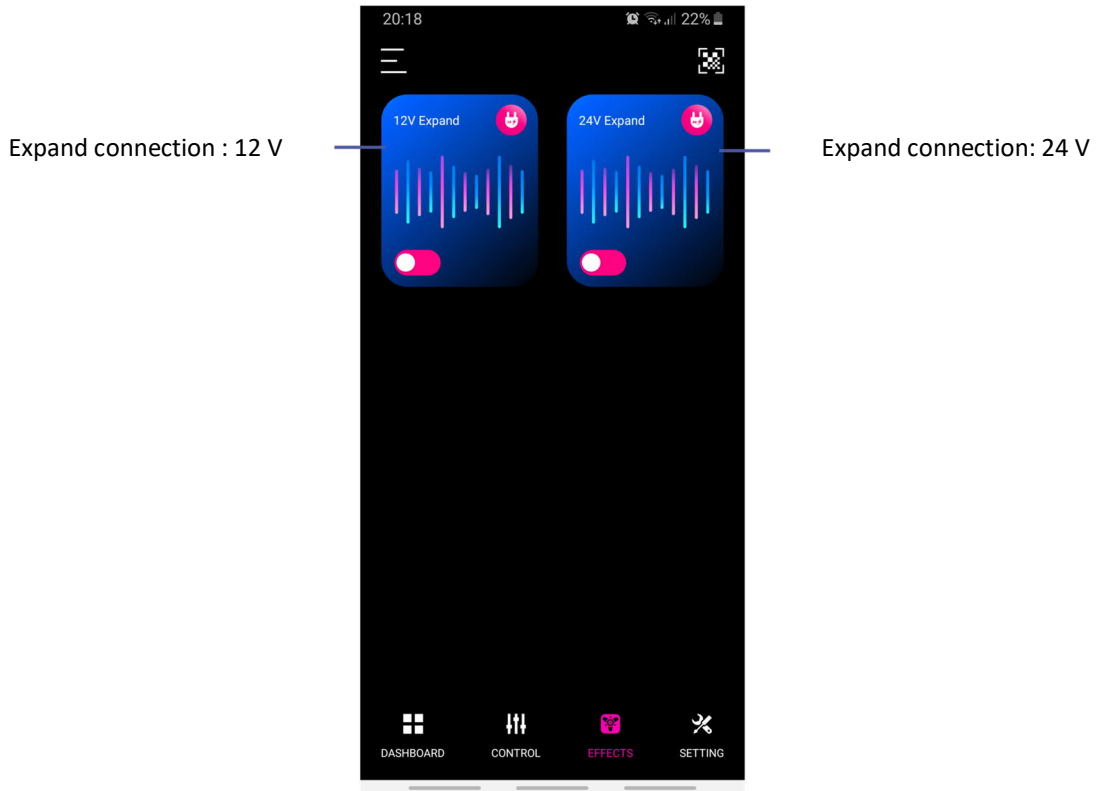
Intensity level ——

Set channel

Set start time

Set end time

Channels intensity ——
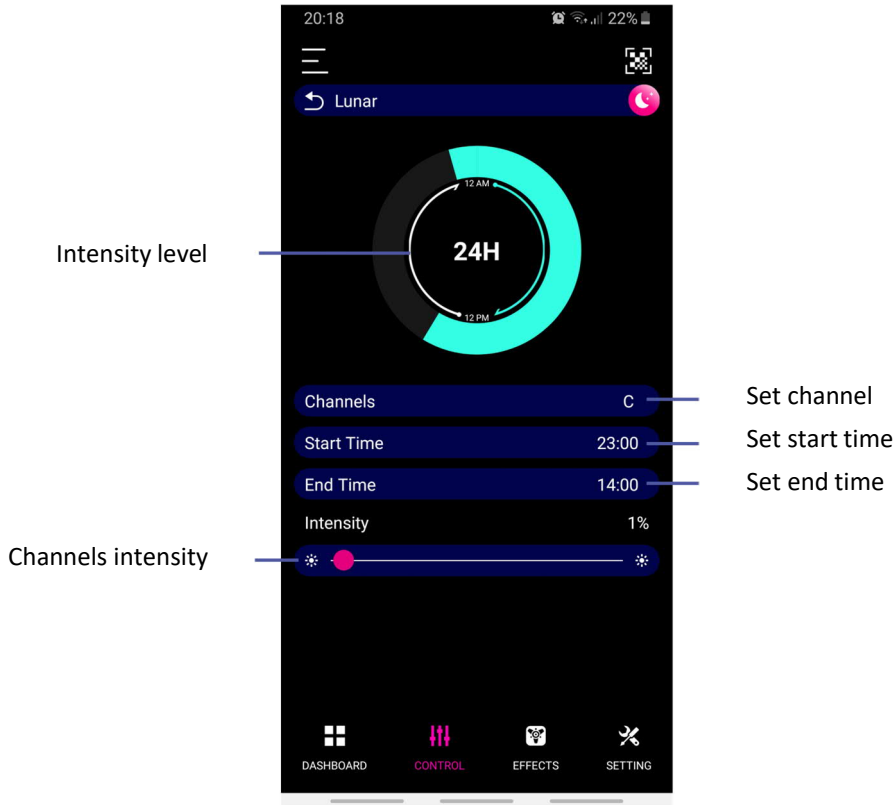
With the lightning effect, you can adjust the period, frequency and intensity of an artificial lightning.

Intensity level ——

Set start time

Set end time

Daily repeat

Frequency

Lightning intensity ——
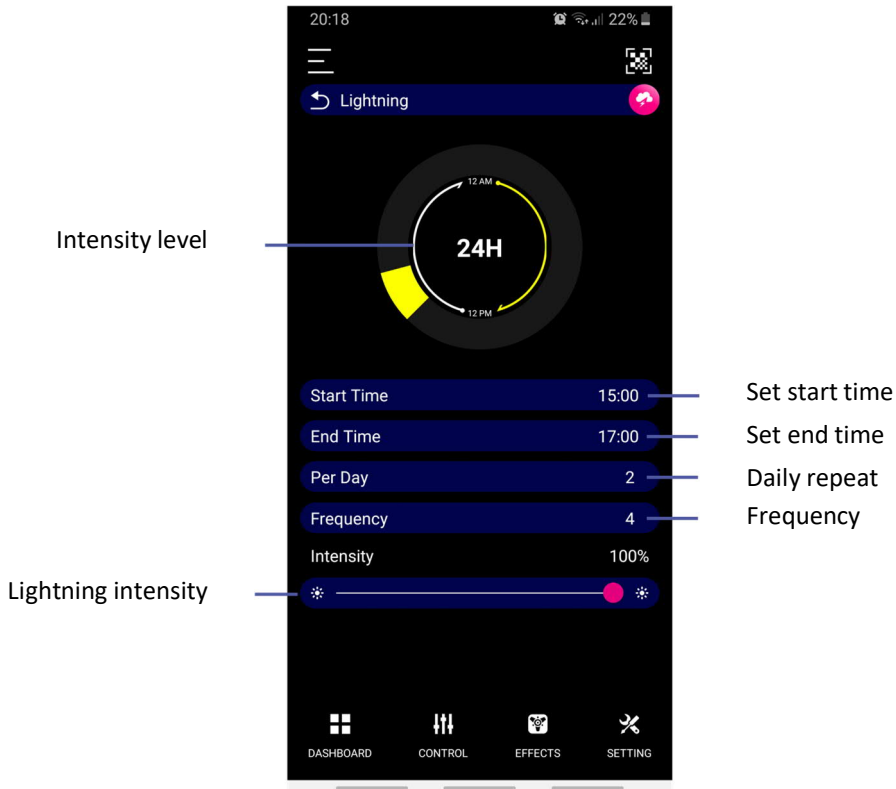
With the cloud effect we can adjust the period and intensity of an artificial clouding.

Intensity level

24H

Start Time — 12:00 — Set start time

End Time — 15:00 — Set end time

Intensity — 60% — Intensity of clouding

— Set clouding intensity

Speed — 12s

Speed of clouding

DASHBOARD   CONTROL   EFFECTS   SETTING

You can set, switch and turn on and off the expand output connectors .

Expand connection : 12 V — 12V Expand

24V Expand — Expand connection: 24 V

DASHBOARD   CONTROL   EFFECTS   SETTING

You can set the period or intensity of the 12V expand output connector

Period

Timers — Timer 1 | Timer 2 | Timer 3

ON/OFF

Enable

Start Time — 08:00 — Set start time

End Time — 09:00 — Set end time

POWER — 100%

Intensity level

You can set the period or intensity of the 24V expand output connector

Period

Timers — Timer 1 | Timer 2 | Timer 3

ON/OFF

Enable

Start Time — 08:00 — Set start time

End Time — 09:00 — Set end time

POWER — 100%

Intensity level

The application settings include:
(The pairing of the two devices can be viewed on our Lumen Aquatech youtube channel)

System settings
Helps
Time format

Enable pairing
Set signal
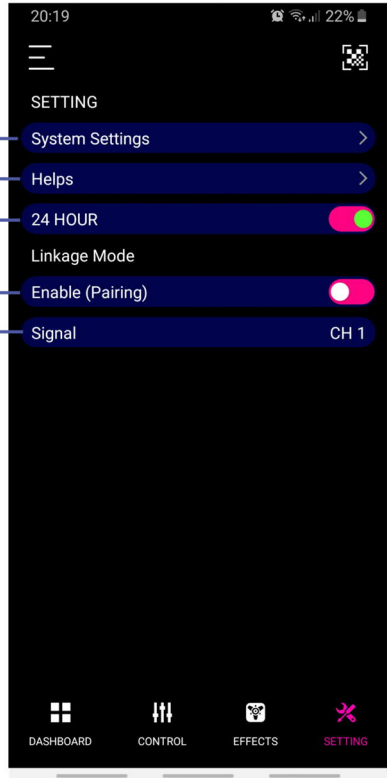
Reference settings and preset modes
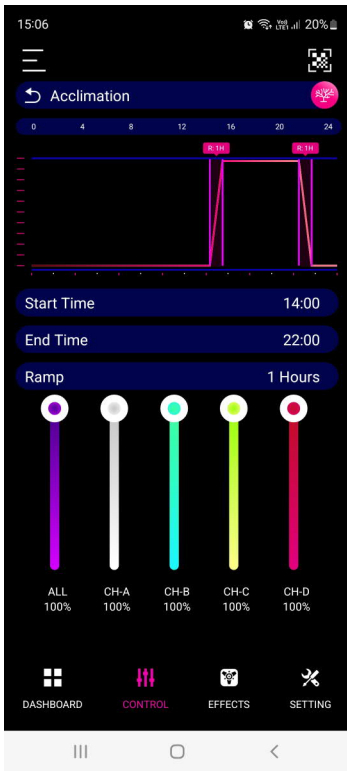
Reference setting based on which
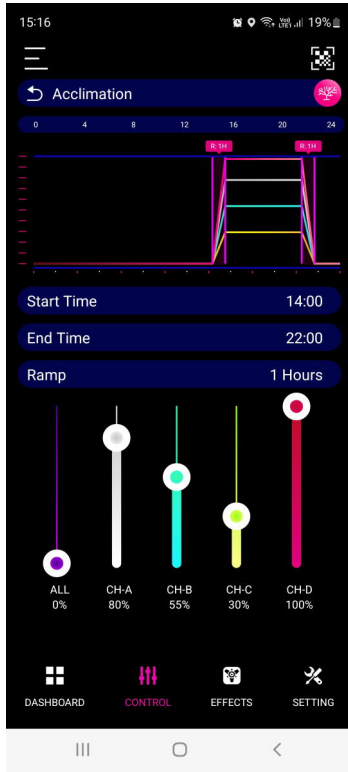LRW165 -... H series data was determined,
WBGR CH: 100%
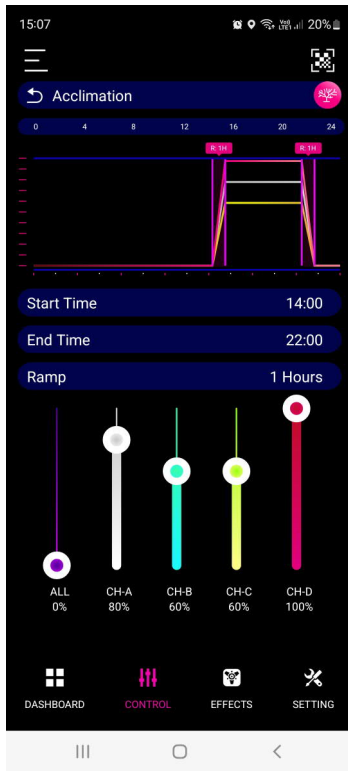
LRW1 color mixing
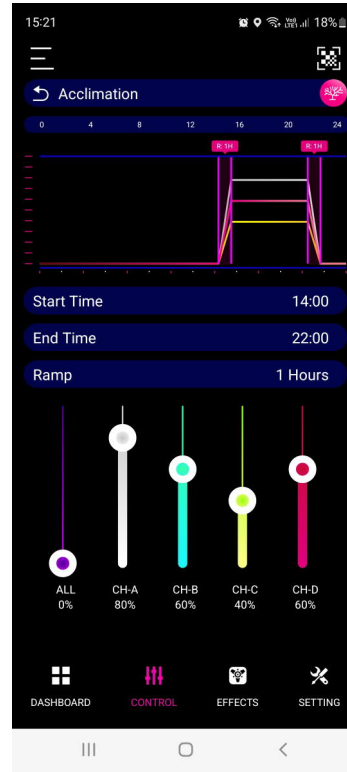NATURAL WARM
WBGR CH: 80%,60%,60%,100%
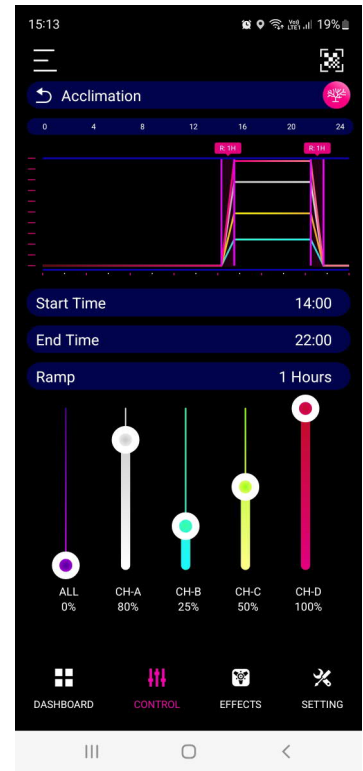
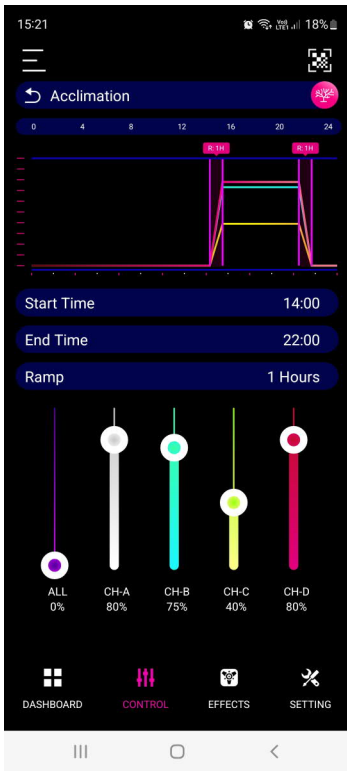LRW2 color mixing
YELLOWISH TONE
WBGR CH: 80%,25%,50%,100%
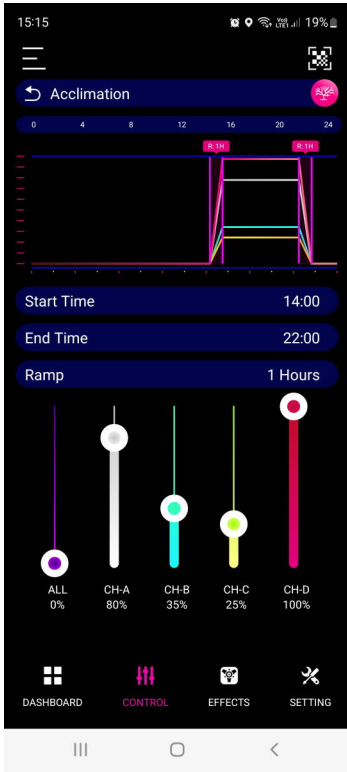
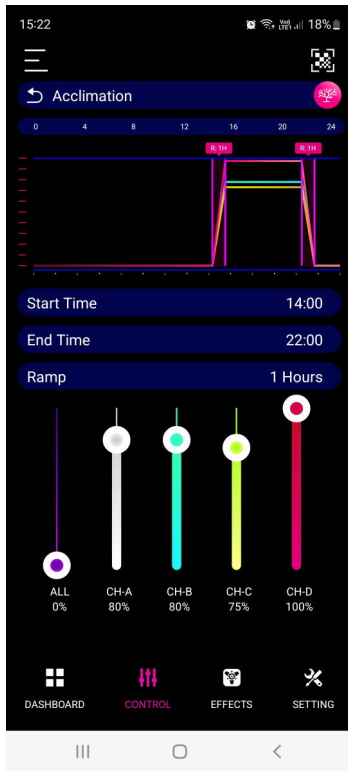LRW3 color mixing
RED-WHITE TONE
WBGR CH: 80%,35%,25%,100%

LRW4 color mixing
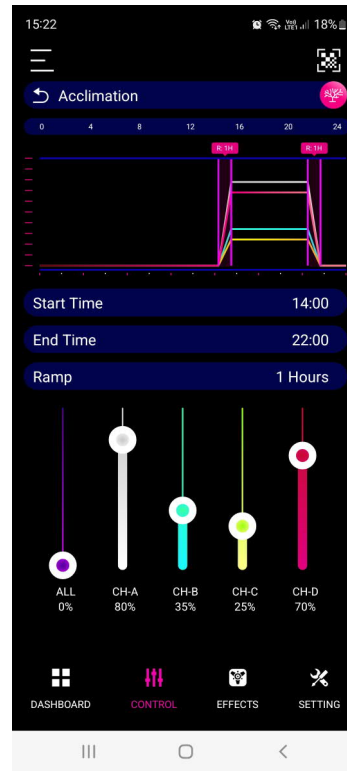RED-BLUE TONE
WBGR CH: 80%,55%,30%,100%

LRW5 color mixing
GREEN-BLUE TONE
WBGR CH: 80%,60%,40%,60%

LRW6 color mixing
BLUE TONE
WBGR CH: 80%,75%,40%,80%

LRW7 color mixing
NATURAL COLD
WBGR CH: 80%,80%,75%,100%

LRW8 color mixing
NATURAL WHITE
WBGR CH: 80%,35%,25%,70%

** All settings here are guidelines only, everyone can customize them to their own taste.

** Some modes may be too strong depending on the size of the aquarium, so reduce the intensity of the channels proportionally

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