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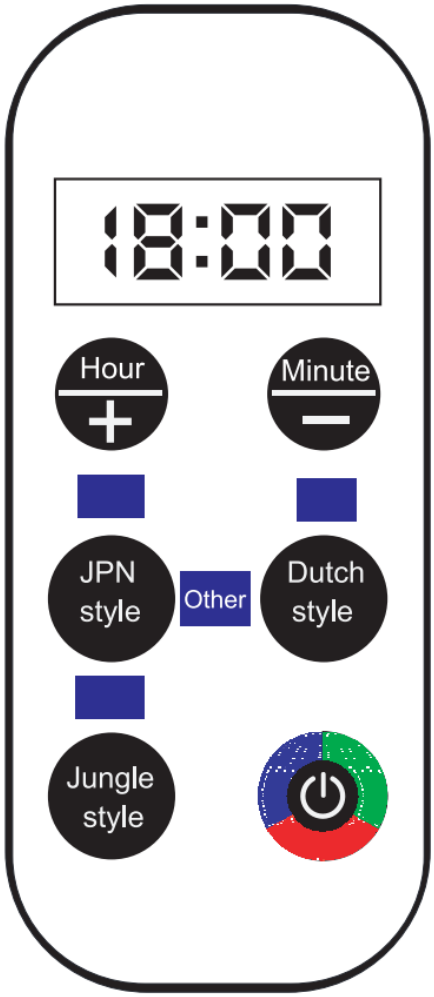
Pawfly BT-PF001 Aquarium Light Controller



Product Information

Specifications

- **Compliance:** Part 15 of the FCC Rules
- **Operating Conditions:** No harmful interference, must accept any received interference
- **Radiation Exposure Limits:** Complies with FCC limits for an uncontrolled environment
- **Minimum Distance:** 20cm between radiator and body

Product Usage Instructions

FCC Warning

Ensure compliance with FCC Rules and follow the guidelines provided in the manual.

Installation

1. Reorient or relocate the receiving antenna if needed.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment to an outlet on a different circuit from the receiver.

Operation

Operate the equipment within the specified radiation exposure limits and maintain a minimum distance of 20cm between the radiator and your body.

Troubleshooting

If you experience any issues, consult the dealer or a qualified radio/TV technician for assistance.

Controller Button Functions

-

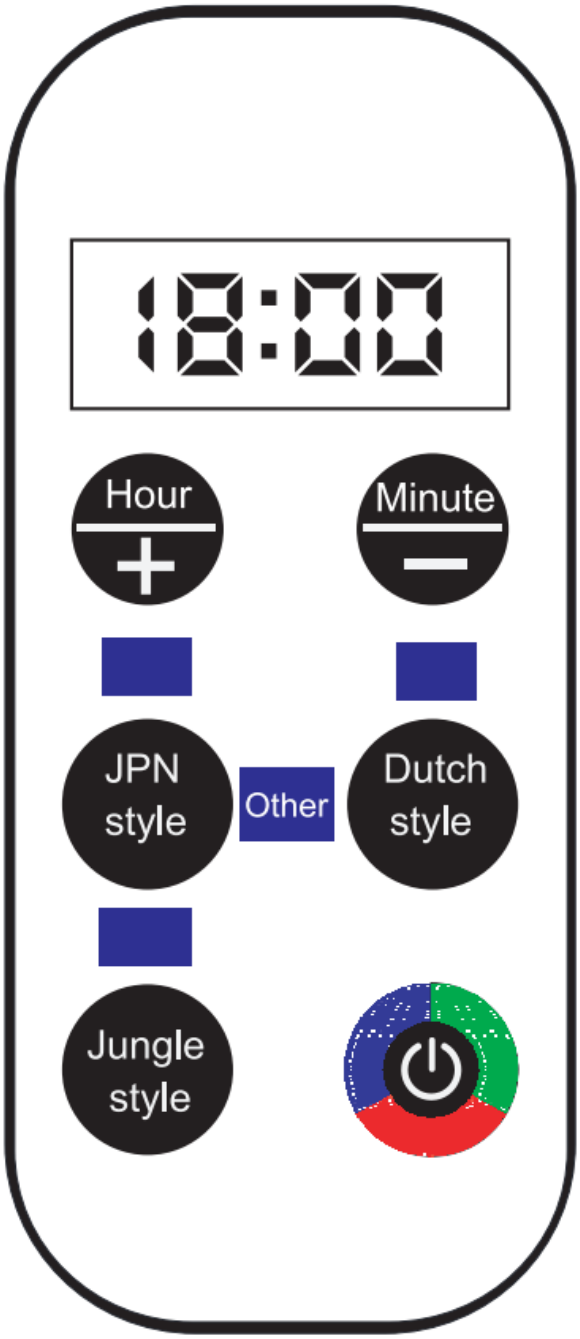
Set the hour and increase brightness
-

Set the minute and decrease the brightness
-

Set Japanese-style timer mode
-

Set Dutch-style timer mode
-

Set Jungle style timer mode
-
Manually select the mode and turn the light on/off



App Control Interface Guide

1. **Light Name:** Tap to enter the lighting control system (default password: 12345678).
2. **Overall Brightness** Adjustment: Adjust from 1% to 100%.
3. **Colour Adjustment:** Freely combine or individually adjust WRGB values (0%-100%).
4. **Preset Lighting** Effects: Built-in non-timer lighting effects.
5. **Function Buttons:** From left to right: basic manual mode, light on/off, and timer mode.
6. **Timer Mode:** Includes 3 default spectra and 3 customizable settings.
7. **Spectrum Preview:** View spectrum parameters in timer mode.

Light Control Settings

Time Settings

1. **Controller**
   - Connect the light to a compatible power supply to turn it on.
   - Press and hold the Hour + or Minute − button. The digits on the LED display will start flashing
   - Press the Hour + button Minute − to set the current clock time accordingly.
   - After finishing the settings, no further action is required to save time.

- The clock setting mode will automatically exit and save after a few seconds.

2. **App**
   - Connect the light to a compatible power supply to turn it on.
   - After successfully connecting to the “Aquarium Light Controller” app via Bluetooth, the app will automatically sync with your phone’s system time.

Mode Selection

1. **Controller**
   - Users can select their preferred mode by pressing the corresponding button.
   - Pressing the

,

or

 style button will activate the corresponding timer mode.
2. **App**
   - After successfully connecting to the “Aquarium Light Controller” app via Bluetooth, you can select the Dutch Style, Jungle Style, or Japanese Style in timer mode.

Brightness Adjustment

1. **Controller**
   - Press the

 button to increase brightness and the

 button to decrease it.
   - When first turned on, the light is set to 100% brightness. The LED display on the controller shows the current brightness level during adjustment.
2. **App**
   - Use the brightness control in the app to adjust the brightness level.

Color Selection

1. **Controller**
   - Press the button to cycle through the available lighting options in sequence.
   - Press briefly to turn the light on, and press and hold to turn it off.

	S_01	Full Brightness
	S_02	Cool White
	S_03	Red
	S_04	Green
	S_05	Blue
	S_06	Cyan
	S_07	Pink
	S_08	Warm White
	S_09	Rainbow Fade

2. **App**
    - Use the colour control in the app to customise the light colour as desired.

Power-Off Memory & Time Recovery

- All settings except the current time are retained after a power outage.
- When power is restored, the current time can be reset manually on the controller or automatically restored by reconnecting the app via Bluetooth.

Default Spectrum Settings

Dutch Style Timer Mode (Lights Turn on at 6:00 AM Daily)

Time	Status	White Light	Red Light	Green Light	Blue Light
6:00	Light On	0%	0%	0%	0%
8:00	Operating	15%	50%	12%	3%
10:00	Operating	50%	65%	30%	20%
12:00	Operating	100%	100%	0%	0%
13:00	Operating	100%	100%	100%	100%
16:00	Operating	100%	70%	70%	100%
17:00	Operating	50%	50%	50%	50%
18:00	Operating	10%	50%	10%	10%
19:00	Operating	0%	0%	50%	100%
22:00	Light Off	0%	0%	0%	0%

Jungle Style Timer Mode (Lights Turn on at 8:00 AM Daily)

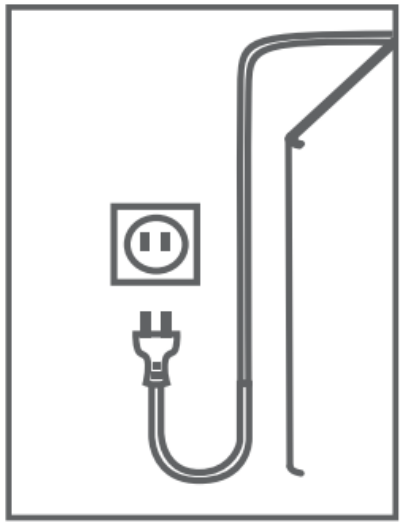
Time	Status	White Light	Red Light	Green Light	Blue Light
8:00	Light On	0%	0%	0%	0%
8:30	Operating	10%	100%	50%	10%
9:00	Operating	100%	100%	100%	100%
17:00	Operating	100%	100%	100%	100%
18:00	Operating	0%	100%	50%	15%
19:00	Operating	0%	0%	50%	100%
22:00	Light Off	0%	0%	0%	0%

Japanese Style Timer Mode (Lights Turn on at 7:00 AM Daily)

Time	Status	White Light	Red Light	Green Light	Blue Light
7:00	Light On	0%	0%	0%	0%
7:15	Operating	70%	70%	70%	70%
8:00	Operating	70%	70%	70%	70%
8:15	Operating	100%	100%	100%	100%
15:00	Operating	100%	100%	100%	100%
15:15	Operating	70%	70%	70%	70%
18:00	Operating	70%	70%	70%	70%
18:15	Operating	0%	0%	0%	100%
22:00	Operating	0%	0%	0%	100%
22:15	Light Off	0%	0%	0%	0%

Important Safety Instructions

1. Make sure your hands are dry before turning the power on/off or plugging/unplugging the power cord.
2. Do not use any LED driver other than the one provided by the manufacturer to power the light.
3. Ensure the operating voltage matches the voltage requirements of the LED driver.
4. Do not look directly at the LED light to avoid eye injury.
5. Ensure the light is securely installed before supplying power.
6. Supervise children when they are near the device.
7. Connect the LED driver to the side of the wired controller in a looped structure to prevent water from dripping along the cable into the power outlet.
8. Note that the overall waterproof rating of the LED aquarium light is IP67, while the controller is rated IP20. The controller is not waterproof – keep it away from any water source.



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference,
2. This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and uses can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the

receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Frequently Asked Questions

What should I do if I encounter interference while using the device?

If you experience interference, try reorienting the antenna, increasing the distance from other equipment, or consulting a professional for help.

How can I ensure compliance with FCC rules?

Follow the guidelines provided in the manual, avoid making unauthorised modifications, and maintain the recommended operating conditions.

Documents / Resources

	Pawfly BT-PF001 Aquarium Light Controller [pdf] User Manual BT-PF001, BT-PF001 Aquarium Light Controller, Aquarium Light Controller , Light Controller

References

- User Manual

Aquarium Light Controller, BT-PF001, BT-PF001 Aquarium Light Controller, Light Controller,
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