

Shenzhen Founder Industrial Co., Ltd.

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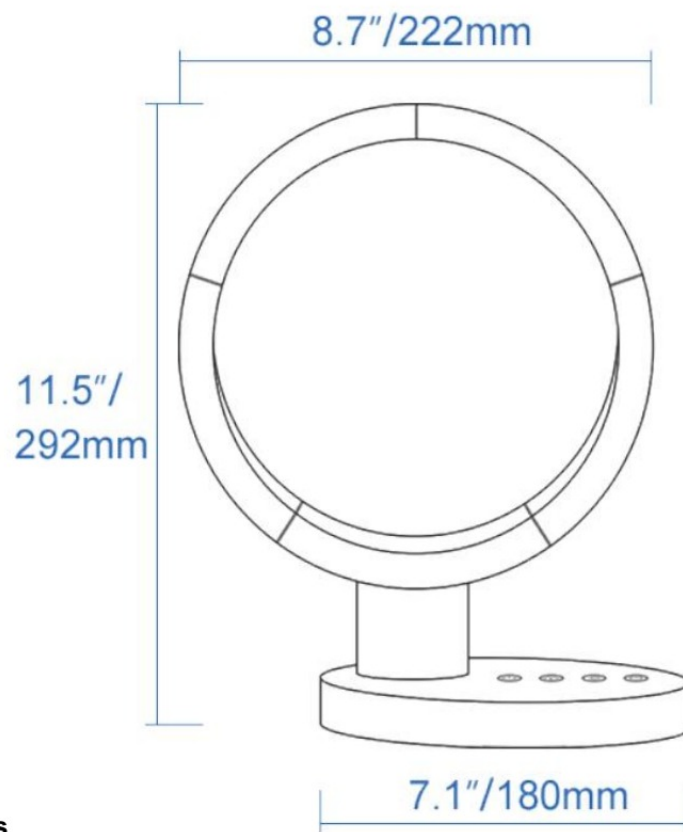
PRODUCT SPECIFICATION

Product Model: FDTL01-IC

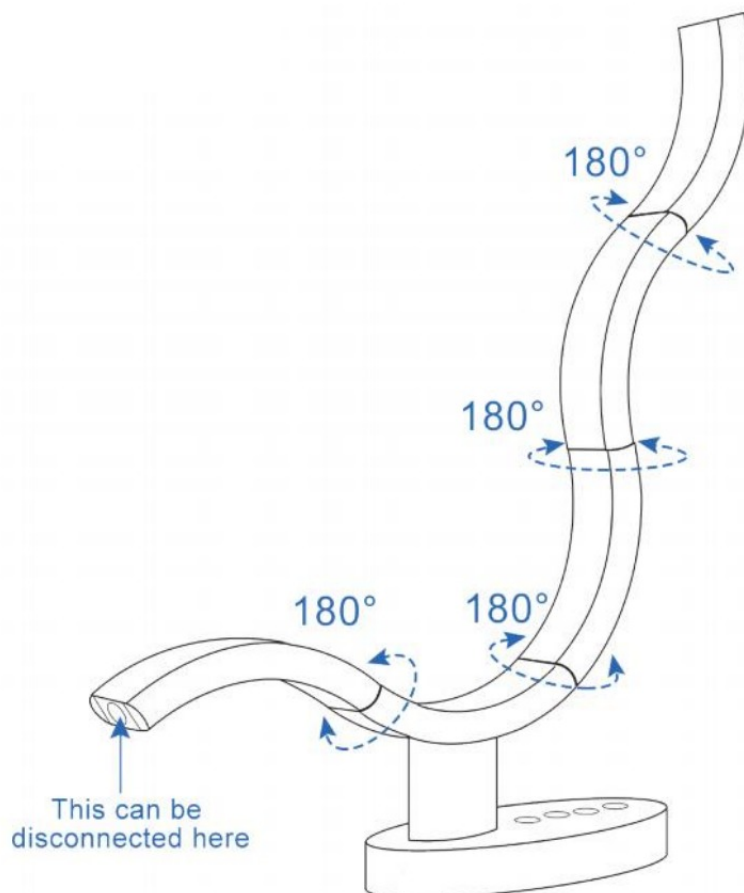


Confirmed by Shenzhen Founder Industrial Co., Ltd.	
Engineering Department	
Quality Department	
Approved By	
Notes: Company Stamp	

1. Dimensions



2. Adjustment Angles



2. Control Functions

Applicable model: FDTL01-IC

Power	Turn the lamp on or off. The previous mode is restored after normal power cycling.
Mode	Cycle through built-in static and dynamic lighting modes.
Music	Synchronize color effects with music played by the connected phone.
Microphone	Synchronize color effects with sound detected by the phone microphone.
Remote Power	Turn the lamp on or off with the handheld remote control.
AUTO	Run the automatic scene sequence.
Brightness / Speed	Adjust brightness in static modes or effect speed in dynamic modes.
Color / Scene	Choose colors, scenes, gradients, and music-reactive effects.
White Light	Select the white-light channel where supported.
DIY	Store custom colors and effect combinations.

3. App Installation and Connection

Download Lotus Lantern PRO from the Apple App Store or Google Play, or scan the QR code below with your phone camera.

Apple App Store

Google Play

Connection procedure

Enable Bluetooth, open the app, and allow the requested Bluetooth and microphone permissions. Tap the detected lamp in the device list to connect.

If the lamp is not detected

1. Confirm that the lamp is powered on and Bluetooth is enabled.
2. Close other apps that may already be connected to the lamp.
3. Power-cycle the lamp, reopen the app, and scan again.
4. Keep the phone close to the lamp during the first connection.



SCAN TO DOWNLOAD LOTUS LANTERN PRO

App screens may vary slightly by version and product configuration.

3.2. App Home Screen

Open the app and select the lamp from My Devices. The device card provides quick power control and access to the full lighting panel.

1. Add Device	Tap + and wait for the app to find nearby compatible lamps.
2. Identify the Lamp	Use the quick power switch when several lamps are nearby.
3. Name and Group	Assign a short, unique name and select a room if required.
4. Open Controls	Tap the device card to access color, scene, music, timer, and settings.
Device Card	Shows connection state and opens the full control panel.
Power Icon	Provides quick on/off control from the home screen.
Menu	Rename, regroup, or remove the connected device.

Use clear device names when multiple products are installed in the same room.

3.3. Lighting Control Panel

The navigation bar provides the principal lighting functions. Available tabs vary slightly by model and app version.

Power	Turn the lamp on or off.
Color	Choose hue, saturation, brightness, and favorite colors.
White	Adjust the white-light channel where supported.
Scene	Run built-in static and dynamic lighting presets.
Music	Synchronize effects with music stored on the phone.
Microphone	Synchronize effects with sound detected by the phone.
Timer	Schedule automatic power-on and power-off events.
Settings	Rename, group, remove, or review the device.

Allow microphone permission before using sound-reactive modes.

3.4. Color and Dynamic Effects

Choose a color on the wheel, adjust saturation and brightness, or select a preset. Dynamic effects provide flowing, chasing, gradient, pulsing, and segmented animations.



Static Color	Select a fixed color and adjust brightness.
Gradient	Blend smoothly between two or more colors.
Chasing	Move color segments along the light array.
Flowing	Run a continuous multi-color motion effect.
Pulsing	Raise and lower intensity rhythmically.
Segment Editing	Select segments or groups on supported RGBIC models.
Speed	Adjust the animation rate for dynamic modes.

Save frequently used colors and effects as favorites for quick recall.

3.6. Built-in Scenes

Select a scene to apply a coordinated color and animation preset. Scene speed and brightness can be adjusted without leaving the scene page.

Relax	Soft, slow color transitions
Party	Bright, fast dynamic effects
Night	Low-brightness ambient colors
Reading	Stable white or warm-white output

3.7. Music and Microphone Effects

Choose music stored on the phone or use microphone mode. The lamp changes color and intensity with the detected rhythm. Keep the phone near the sound source for consistent response.

3.8. Custom Scenes

Create a custom palette, choose an effect type, set the speed, and save the result as a reusable scene. RGBIC products may also provide segment selection and direction control.

1	Select the required light segments.
2	Choose the color palette and animation.
3	Adjust brightness and speed, then save.

3.9. Timers and Device Settings

Use the timer page to schedule automatic power-on and power-off events. Confirm the phone time zone and keep the lamp connected to power.

On Timer	Select a time and the required power-on state.
Off Timer	Select a time for automatic power-off.
Repeat	Choose once, daily, or selected weekdays where supported.

Device settings

Rename	Assign a clear, unique device name.
Group	Move the lamp to a room or device group.
Power-on behavior	Select the default or memory state where supported.
Remove device	Disconnect the lamp from the current phone.
Firmware	Review device and firmware information.

Troubleshooting

If scheduled events do not run, verify that the lamp remains connected to power and that Bluetooth permission is enabled. Reconnect after changing phones or reinstalling the app.

4. Optical Specifications

Luminous Flux	/
CCT Range	Full-color RGB
Brightness / CCT Control	Touch, remote control, and Lotus Lantern PRO app
LED Specification	5054RGB 3 x 0.2 W 60 mA luminous flux:R:6-8 lm G:18-20 lm B:3-4 lm, ; total
LED Service Life	>40000 H
Color Rendering Index (CRI)	/
Center Illuminance	□ 60 cm /

5. Adapter Specifications

Input	AC 100-240 V 50/60Hz, 0.4 A
Output	12 V DC±5%
Rated Output Current	DC 1 A
Rated Output Power	12 W
Power Factor	0.5±0.05
Operating Temperature	-10-40 °C
Certifications	CE, RoHS, ETL, PSE, CCC, UKCA
DC Cable Length	2 m
DC Connector	5.5 x 2.1 x 10 mm right-angle plug

6. Lamp Electrical Specifications (Adapter Excluded)

Rated Input	12 V
Rated Power	11 W±10%
Power Supply Efficiency	≥80%
Protection Class	Class III
LED Driver Type	Constant-voltage
Battery	None

7. Complete Unit Electrical Specifications

Rated Input	AC 100-240 V 50/60Hz, 0.05 A
Rated Power (Adapter + Lamp)	12 W±10%(LED module / adapter)
Power Factor	0.5
Standby Power	<0.5 W
Protection Class	Class II

8. Structural Specifications

Housing Materials	PC, ABS
Profile Surface Finish	/
Number of Joints	4
Joint Torque Rating	2 kg
Joint Service Life	5000 cycles

9. Operating Environment

Application	Indoor use
Operating Temperature	-20 °C-45 °C
Operating Humidity	0%-85%RH
Ingress Protection	IP20 (default unless otherwise marked)
Service Life	≥20000 h

10. Product Connector

Connector Type	5.5 x 2.1 x 10 mm right-angle plug
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11. Product Certifications

Certifications	□□ CE, RoHS, ETL, PSE, CCC, UKCA
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12. Packaging Specifications (Subject to Actual Shipment)

Outer Carton	568 x 340 x 602 mm
Color Box	325 x 275 x 94 mm
Quantity per Master Carton	12 sets
Gross Weight per Unit	1.13 kg
Total Gross Weight	14.7 kg