FENIX
LIGHTING FOR EXTREMES

CL20R PRO
SMART MULTICOLOR AMBIENT CAMPING LANTERN

- **400 LUMENS MAXIMUM OUTPUT**
- **320 HOURS MAXIMUM RUNTIME**

① Electronic switch
② Switch light ring/ battery level indication
③ USB Type-C charging port
④ Magnetic base

- Long press 3s → Enable/disable Smart sensing function
- Long press 0.5s → General Mode
  - Double click → Delay off function
  - Moonlight: High — Single click — Low / Med
  - Double click → Freeze
- Double click → Scene Mode
  - Single click → Battery level indication
  - Red constant-on → Stepless RGB — Single click — Red flash
  - RGB flow ← RGB chase
- Double click → Switch Light Ring Mode
  - Single click → Battery level indication
  - RGB chase — Red flash — Single click — RGB flow
  - Red constant-on
- Long press 0.5s → OFF

Output graph

- 400lm(General mode):5h3min
- 130lm(General mode):15h
- 30lm(General mode):32h
- 1lm(General mode):320h
- 1.5lm(Scene mode Red):40h
- 1.5lm(Scene mode Red flash):80h
- 12lm(Scene mode RGB chase):10h
- 10lm(Scene mode RGB flow):10h
- 25lm(Scene mode Stepless RGB):6h41min

⚠ WARNING

◎Do NOT place this lantern in the reach of children!
◎Do NOT shine this lantern directly into the eyes of anyone!
◎Do NOT place this lantern near flammable objects as high temperatures can cause objects to overheat and become flammable/ignite!
◎Do NOT use this lantern in inappropriate ways such as holding the unit in your mouth, doing so could cause serious personal injury or death if the lantern or internal battery fails!
◎This lantern will accumulate a lot of heat while operating, resulting in a high temperature of the lantern outer case. Pay close attention to avoid burns!
◎Remove the battery to prevent accidental activation when the lantern is placed in a closed and flammable environment such as pockets and backpacks!
◎The LEDs of this lantern are not replaceable; so the whole lantern will need to be replaced when any one of the LEDs reaches the end of its lifespan.

(ENGLISH)FENIX CL20R PRO CAMPING LANTERN

◎400 lumens maximum output, 15 meters maximum beam diameter.
◎Twenty-seven 2835 LEDs and twenty-four high-quality 2020 RGB LEDs, with a lifespan of 50,000 hours each.
◎Built-in 5.8GHz radar sensor module allows the lantern to automatically turn on when approached and power off after departure for hands-free energy saving.
◎Delay off function is available at all brightness levels in General mode.
◎Scene mode features multiple RGB lighting effects, including RGB Chase, RGB Flow, and Stepless RGB.
◎Corresponding outputs for the Switch light ring and the Scene mode are switchable.
◎Powered by a 1900mAh battery and compatible with three AAA batteries.
◎Standard USB Type-C charging port.
◎Battery level indication and low-voltage warning.
◎Magnetic base and hanging loop for multiple mounting options.
◎Made of quality plastics and highly transparent material - smooth anti-glaring beam.
◎IP65-rated protection.
◎Size: 3.15" x 1.89" x 2.13"/80 × 48 × 54 mm
◎Weight: 4.30 oz/122 g (including battery).

OPERATING INSTRUCTIONS

Mode A is General mode, Mode B is Scene mode, Mode C is Switch light ring mode.
On/off
On: With the lantern turned off, press and hold the switch for 0.5 seconds to turn the lantern on and enter Mode A; double click the switch to turn the lantern on and enter Mode B; or single click the switch and then single click it again within 3 seconds to turn the lantern on and enter Mode C.
Off: With the lantern turned on, press and hold the switch for 0.5 seconds to turn the lantern off.
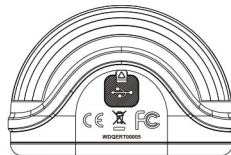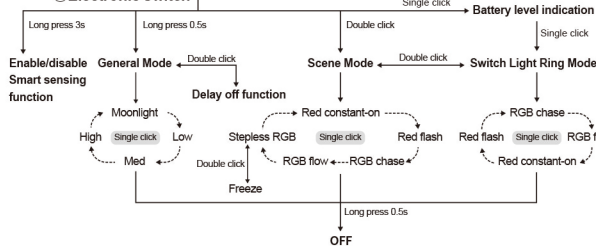
Mode Switching
Mode A: Double click the switch to enable the Delay off function, the switch light ring will display purple and the lantern will automatically turn off after 20 minutes.
Mode B: Double click the switch to switch to the Mode C.
Mode C: Double click the switch to switch to the Mode B.
Note:
The corresponding outputs for the Mode B and the Mode C are switchable. For example, double click the switch while in the red constant-on output of Mode B to switch to the red constant-on output of Mode C. The same method applies to other outputs.
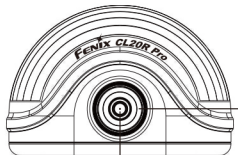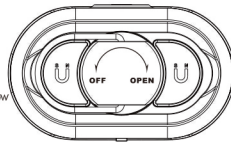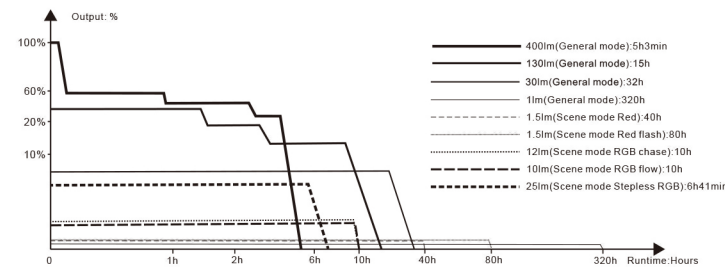

TECHNICAL PARAMETERS

MODE	GENERAL MODE				SCENE MODE					SWITCH LIGHT RING			
	HIGH	MED	LOW	MOONLIGHT	RED CONSTANT-ON	RED FLASH	RGB CHASE	RGB FLOW	STEPLESS RGB	RED CONSTANT-ON	RED FLASH	RGB CHASE	RGB FLOW
☼OUTPUT	400 lumens	130 lumens	30 lumens	1 lumen	1.5 lumens	1.5 lumens	12 lumens	10 lumens	25 lumens	1 lumen	1 lumen	1 lumen	1 lumen
⟳RUNTIME	5 hours 3 minutes	15 hours	32 hours	320 hours	40 hours	80 hours	10 hours	10 hours	6 hours 41 minutes	/	/	/	/
〓BEAM DIAMETER	15 meters												
↧IMPACT RESISTANCE	1.5 meters												
☂WATERPROOF	IP65												

Note: The above specifications are from the results produced by Fenix through its laboratory testing using one Fenix ARB-LP1900 battery under the temperature of 21±3°C and humidity of 50% - 80%. The true performance of this product may vary according to different working environments and the actual battery used.
*The High output is measured in total of runtime including output at reduced levels due to temperature or protection mechanism in the design.

2.In the Stepless RGB output, double click the switch to freeze the current color or resume color changing.

Output Selection
Mode A: Single click the switch to cycle through Moonlight→Low→Med→High.
Mode B: Single click the switch to cycle through Red constant-on→Red flash→RGB chase→RGB flow→Stepless RGB.
Mode C: Single click the switch to cycle through RGB chase→RGB flow→Red constant-on→Red flash.

Intelligent Memory Circuit
The lantern automatically memorizes the previously used output of the General mode. When turned on again, the previously used output will be recalled.
Note: The lantern will activate in Med output if it was previously switched off in High output.

SMART SENSING FUNCTION

With the Smart sensing function enabled and the lantern turned on in General mode, the lantern will automatically enter Mode A upon detecting movement within a 1.5-meter diameter range. The lantern will then turn off automatically after no movement is detected for 60 seconds within the sensing range.

Enable/Disable
Enable: With the lantern turned off, press and hold the switch for 3 seconds. The switch light ring will blink blue twice, and the lantern will activate in the Low output of Mode A. Meanwhile, when the lantern is turned on in General mode, the switch light ring will display blue to indicate that the Smart sensing function is enabled.
Disable: With the lantern turned off, press and hold the switch for 3 seconds. The switch light ring will blink blue eight times to indicate that the Smart sensing function is disabled.

Note:
1.The Smart sensing function is disabled by default.
2.Turn off the lantern or disable the Smart sensing function when the Smart sensing function is not in use to conserve battery power.
3.With the Smart sensing function enabled and the lantern turned on in General mode, double click the switch to prioritize and enable the Delay off function(indicated by a purple light ring).

Upon completion of the delay, the lantern will automatically return to the smart sensing state(indicated by a blue light ring when the lantern is turned on).

BATTERY SPECIFICATIONS

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-LP1900	Dedicated battery	3.8 V	Recommended	√√
Alkaline Battery	AAA	1.5 V	Usable*	√
Ni-MH Battery	AAA	1.2 V	Usable*	√
Rechargeable Battery (Li-ion)	10440	3.7 V	Banned**	×

Warning:
*Do not mix batteries of different brands, sizes, capacities or types.
**Only use the recommended or usable batteries mentioned in this user manual. Using low-quality batteries or mishandling batteries (such as short-circuiting or overheating) could lead to combustion and jeopardize the safety of users and property. Any adverse effects resulting from the use of low-quality batteries are not covered by any Fenix warranty or liability. Using quality batteries with circuit protection will reduce the potential for combustion or explosion. It is recommended to use a Fenix ARB-LP1900 battery.

BATTERY REPLACEMENT

Pull up the hanging loop on the bottom of the lantern and unscrew it clockwise to open the battery cover. Insert the battery in accordance with the polarity marks, then screw the battery cover back on.

CHARGING

1.Open the anti-dust cap and plug the USB Type-C end of the charging cable into the charging port of the lantern.
2.While charging, the switch light ring will progressively display green in a counterclockwise direction to indicate the charging status.
3.The switch light ring will turn green completely when the lantern is fully charged.
Note:
1.All outputs can be turned on while charging.
2.The Delay off function and the Smart sensing function can be used while charging. In this

case, the switch light ring will prioritize indicating the charging status.
3.With the lantern turned off, the normal charging time is approximately 2.5 hours from depleted to fully charged*.
4.Once charging is completed, be sure to unplug the charging cable and close the anti-dust cover to prevent the ingress of dust and debris.
5.It is recommended to recharge the lantern when the battery level is between 50% and 25% to prolong the battery lifespan. Immediate charging is required when the remaining battery level falls below 25%.
*This function only works with a Fenix ARB-LP1900 battery. Do not connect the charging cable to the lantern while using the AAA batteries.

BATTERY LEVEL INDICATION

Each time the lantern is turned on, the switch light ring will indicate the battery level and will last for 3 seconds. With the lantern turned off, single click the switch to check the current battery level and the switch light ring will last for 3 seconds.
Green light on: saturated 100% - 85%
Green light flashes: sufficient 85% - 50%
Red light on: poor 50% - 25%
Red light flashes: critical 25% - 1%
*This function only works with a Fenix ARB-LP1900 rechargeable battery.

INTELLIGENT OVERHEAT PROTECTION

The lantern will accumulate a lot of heat when used for extended periods. When the lantern reaches a temperature of 50°C/122°F or above, it will automatically step down a few lumens to reduce the temperature. When the temperature drops below 50°C/122°F, the lantern will gradually recall the preset output level.

LOW-VOLTAGE WARNING

When the voltage level drops below the preset level, the switch light ring blinks red 6 times every 1 second to remind users to recharge or replace the battery in a timely manner. To ensure normal use, the lantern will not turn off automatically and will work till the battery runs out.

USAGE AND MAINTENANCE

◎Disassembling the sealed head can cause damage to the lantern and will void the warranty.
◎Fully charge the lantern in time to ensure normal function the next time it is needed.
◎Fenix recommends using an excellent quality battery.
◎If the lantern will not be used for an extended period, remove the battery, or the lantern could be damaged by electrolyte leakage.
◎Recharge a stored lantern every three months to maintain optimum performance of the battery.
◎The lantern may flicker, shine intermittently or even fail to illuminate for the following reasons:
A: Poor battery level.
Solution: Recharge or replace the battery.
B: The contact or contact point of the battery or lantern is dirty.
Solution: Clean the contact points with a cotton swab soaked in rubbing alcohol.
If the above methods don't work, please contact your authorized distributor.

INCLUDED

Fenix CL20R Pro camping lantern, ARB-LP1900 battery, USB Type-C charging cable, Spare O-ring, User manual, Warranty card