

Foursevens Quark QSL-AF Bluetooth Flashlight

Overview

Battery Type	(1) CR123A
Voltage Range	2V-4.2V
Lumens Max / Min	350 (1.5 hours) / 1 (360 hours)
LED Emitter	Cree XM-L2
Dimensions	Length: 3.43 in / Diameter: 0.86 in / Weight: 1.46 oz
Spot Beam	29.2 Degrees / Diameter at 3 meters: 780 mm
Flood Beam	62.8 Degree / Diameter at 3 meters: 3.7 meters
Brightness Levels	Moonlight: 1lumens, 15 days Low: 10 lumens, 18 hrs Medium: 100 lumens, 3 hrs High: 350 lumens, 1.5 hrs
Special Modes	Strobe: 3 hrs / SOS: 5 hrs / Beacon(hi): 10 hrs / Beacon(lo): 30 hrs

The content below is based on the discussion at the link below:

<http://www.candlepowerforums.com/vb/showthread.php?412026-4-FOURSEVENS-Quark-Smart-QSL-!&p=5161815&viewfull=1#post5161815>

Quark Smart QSL-X Operating Instructions for Non Bluetooth Users

The Quark Smart QSL-X has two switches from which the functionality and operation of the flashlight is derived: an electronic tactile side switch and a mechanical momentary tail cap switch. The way these switches behave in controlling and operating the Quark Smart is dependent on which user interface (Pro, Tactical or Infinite) and which Mode Table has been selected.

Side Switch Basic Operation

From Off:

- A) A quick press and release of the side switch turns the Quark Smart on.
- B) Press and Hold - The Quark Smart goes into moonlight mode and will continue to ramp up in brightness (a total of 8 steps) until you release the side switch.
- C) 1 Tap then 1 Hold - The Quark Smart will activate in Maximum output mode. You can release the side switch once the light activates. If you continue to hold the side switch, the light will ramp down in brightness until you release the side switch.
- D) 2 Taps - The Quark Smart will activate in Strobe mode.

From On:

- A) 2 quick taps of the side switch advances the output to the next mode per Mode Table that has previously been programmed.
- B) A quick press and release of the side switch turns the Quark Smart off.

Program a User Interface and Select a Mode Table

There are three user interfaces (UI): Pro, Tactical, and Infinite; and there are 5 different mode output tables. To enter the program mode:

From off, rapidly press the side switch five times. The side switch LED will blink five times.

Each double-click of the tail switch will go to the next UI. The number of red blinks after each double-click signifies which UI is currently selected, as follows:

- 1) Pro mode
- 2) Tactical mode
- 3) Infinite mode

Each single-click of the tail switch will go to the next mode table. The number of red blinks after each single-click signifies what table is currently selected. The choices are below:

- 1) High
- 2) High - Low
- 3) High - Strobe
- 4) Low - Medium - High - Strobe
- 5) (default) Moon - Low - Medium - High - SOS - Strobe - Beacon high - Beacon Low

To save and exit the programming, single-click the side switch (red led will blink once).

Pro Mode User Interface

The side switch performs as stated in the "Side Switch Basic Operation" description.

The output modes are per your prior selection from the Mode Table programming.

From Off:

A single click of the side switch or tail cap switch turns the Quark Smart on.

A double click of the tail cap switch advances to the next output level (per Mode Table selection) just as the double click of the side switch. There is mode memory of the last mode used when powered back on.

From On:

A single click of the side switch or the tail cap switch turns the Quark Smart off.

Tactical Mode User Interface

The side switch performs as stated in the "Side Switch Basic Operation" description.

The output modes are per your prior selection from the Mode Table programming. Mode memory is only with the side switch.

Tail cap switch is now momentary only.

To choose which output mode you want to activate when you press the tailcap switch, click the side switch to your desired mode so that it is currently selected and the Quark Smart is on. Then, triple click the side switch and turn the light off via the tailcap switch.

From On:

A single click of the side switch or tail cap switch turns the Quark Smart off

Infinite Mode User Interface

The side switch does not perform the same as stated in the "Side Switch Basic Operation" description.

The side switch and the tail cap switch perform the same operation.

From Off:

A single click of the side switch or the tail cap switch turns the Quark Smart on.

From On:

Pressing and holding the side switch or tail cap switch ramps the output until switch is released. That output is memorized and will be the level next time the Quark Smart is turned on.

A single click of the side switch or tail cap switch turns the Quark Smart off.

Brightness Measured Output Modes (lumens)

Note that lumen accuracy is approximate and measured via non-calibrated equipment. Proportionality between output modes could be considered useful.

8 Infinite Mode Steps (lumens)

Moon 0.16, 0.53, 2.57, Low 29, 54, 107, Med 156, 208, High 419 (note: no infinite mode at this level....stops at 208 lumens)