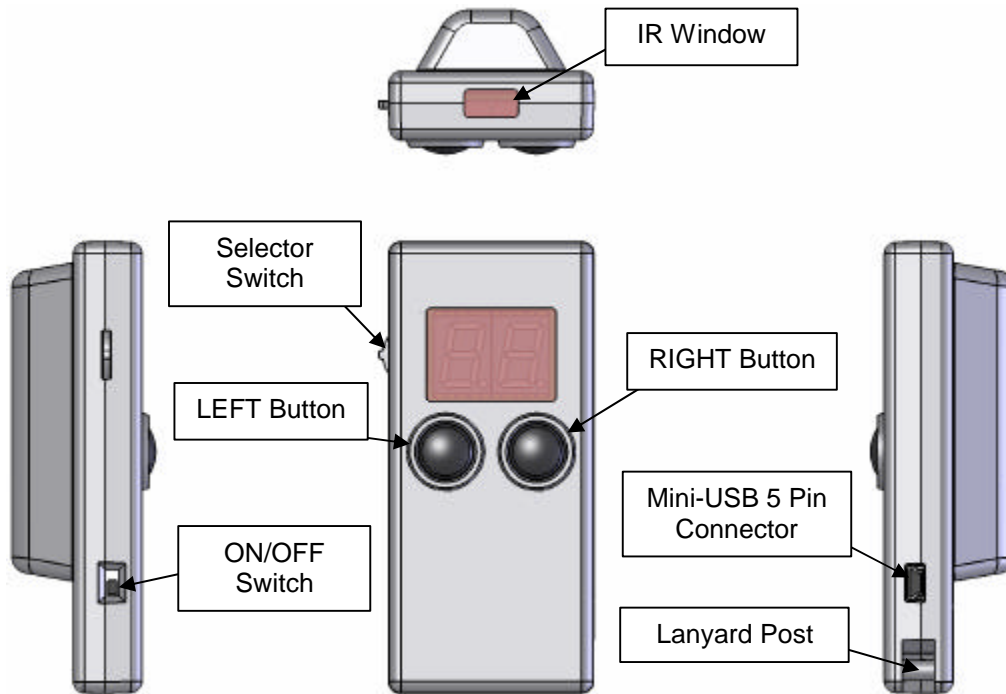


# Diamondback™

## LED PERIMETER WARNING LIGHT

### IR Programming Device Instructions



#### **Device Features/Functionality**

ON/OFF Switch	Controls power to device
Selector Switch	Press UP/DOWN toggles the selections in each menu screen Press IN changes the menu screen Press IN for 3+ seconds changes the flash pattern programming mode types
LEFT Button	Sends programming information to the light In Parametric Mode, changes the PRIMARY function (Pulse, Split, Rate, Brightness) In Comprehensive Mode, programs the light as phase "A" Hold together with RIGHT button for 3+ seconds to enter LOCK/UNLOCK mode
RIGHT Button	Sends programming information to the light In Parametric Mode, changes the SECONDARY function (Pulse, Split, Rate, Brightness) In Comprehensive Mode, programs the light as phase "B" Hold together with the LEFT button for 3+ seconds to enter LOCK/UNLOCK mode
IR Window	Location where IR signal is transmitted to the light
Mini-USB Connector	Used to charge the battery
Lanyard Post	Attach the supplied lanyard for easy carrying

## Device Menus:

There are three menu screens available on the programming device.

### **Parametric Programming Comprehensive Programming LOCK/UNLOCK**

When turning the device ON, the unit will start with the programming screen that was last displayed. The exception is the LOCK/UNLOCK screen. If the unit is turned off with the LOCK/UNLOCK screen displayed, the unit will return to the menu screen that was previously displayed.

To change between the parametric programming screen and the comprehensive programming screen, hold the Selector Switch IN for 3+ seconds. To enter the LOCK/UNLOCK screen, press and hold the LEFT and RIGHT buttons simultaneously for 3+ seconds.

#### **Parametric Flash Pattern Mode:**

The parametric flash pattern mode enables the user to change each individual characteristic of the flash pattern. To change from one menu screen to the next (Phase, Secondary, Pulse, Split, etc.), momentarily press the Selector Switch IN. To switch between options in the menu screen, toggle the Selector Switch UP/DOWN. Note, some menus do not have sub-menus (i.e. Phase, Secondary). Toggling the selector switch UP/DOWN will advance to the next menu selection.

Phase: **Ab**  
Left Button = "A" phase  
Right Button = "B" phase

Secondary Signal: **b9**  
Left Button = Battery  
Right Button = Ground

On the following menus (Pulse, Split, Rate, Brightness), the LEFT button changes the PRIMARY function pattern. The RIGHT button changes the SECONDARY function pattern. For definition and functionality of the SECONDARY function, refer to the Diamondback instruction sheet supplied with the light.

Pulse Type: **PL**  
**P1** Single Flash  
**P2** Double Flash  
**P3** Quad Flash  
**P4** QFL Flash

Split Type: **SP**  
**S1** Full  
**S2** Left/Right  
**S3** Up/Down  
**S4** "X"  
**S5** Clockwise Swirl  
**S6** Counter-Clockwise Swirl  
**S7** California  
**S8** Steady ON

Rate: **rE**  
**r1** 75 FPM  
**r2** 150 FPM  
**r3** 375 FPM

Brightness:  
**b1** Full Brightness  
**b2** Dim

To preview the appearance of the flash pattern, press and hold either the LEFT or RIGHT button (not both) for 3+ seconds. The preview screen may not match the flash pattern on the light. Only the appearance of the characteristic on the menu you are currently modifying will display. For example, if you are changing the rate of the lamp from 75fpm to 150fpm, the preview will show a full lamp (no split) single pulse flashing at the rate you specified. If your lamp has a LEFT/RIGHT split with a QUAD pulse, these will not change. Only the rate will change from 75fpm to 150fpm.

*Note, the IR port of the Diamondback light is located in the lower left corner. Point the programming device toward this area of the light and send the signal. The distance between the programming device and the lamp should be less than 12 inches (30 cm). The lamp will give visual feedback indicating that it has accepted the flash pattern information.*

### Comprehensive Flash Pattern Mode:

The comprehensive flash pattern mode allows the user to send a complete set of flash pattern information (Pulse, Split, Rate, Phase, etc.) to the light with a single button press. ALL flash pattern information on the light is changed. The device is shipped with five program sets.

		Pulse	Split	Rate (fpm)	Brightness	Secondary Signal
1	Primary	QFL	Full	75	Bright	Battery
	Secondary	Double	"X"	150	Bright	
2	Primary	Single	CW Swirl	75	Bright	Battery
	Secondary	Double	Left/Right	75	Bright	
3	Primary	Single	Full	75	Bright	Battery
	Secondary	Single	Full	75	Dim	
4	Primary	Single	Full	75	Bright	Battery
	Secondary	Quad	Full	375	Bright	
5	Primary	Double	Up/Down	75	Bright	Battery
	Secondary	Quad	Full	75	Bright	

To send the flash pattern information, press the LEFT button to program the light as an "A" phase light. Press the RIGHT button to program the light as a "B" phase light.

*Note, the IR port of the Diamondback light is located in the lower left corner. Point the programming device toward this area of the light and send the signal. The distance between the programming device and the lamp should be less than 12 inches (30 cm). The lamp will give visual feedback indicating that it has accepted the flash pattern information.*

### LOCK/UNLOCK Mode:

This mode is provided as a security feature. It enables the user to "LOCK" the light so that it will no longer accept IR signals from a programming device. This prevents malicious changes to the light's flash pattern. If the user would like to enable the IR port of the light, the light can be unlocked by grounding the SYNC (Blue) wire of the lamp and sending the UNLOCK command.

To enter LOCK/UNLOCK mode, press and hold the LEFT and RIGHT buttons in for 3+ seconds. The display will change to a flashing LU. Press the LEFT button to lock the light. Press the RIGHT button to unlock the light.

*Note, the IR port of the Diamondback light is located in the lower left corner. Point the programming device toward this area of the light and send the signal. The distance between the programming device and the lamp should be less than 12 inches (30 cm). The lamp will give visual feedback indicating that it has accepted the flash pattern information.*

**Charging:**

The unit is supplied with a rechargeable 3.6 volt Li-Ion battery. To recharge the battery, connect the programming device with a personal computer (PC) using the cable provided. The computer must be ON. The programming device can be charged with the unit ON or OFF. If the unit is OFF, there will be no indication that the unit is charging. If the unit is ON, there will be a red light in the display to indicate that the unit is charging.

The PC will not recognize the programming device when it is connected to the computer. Since there is no interaction between the PC and the programming device (except for charging), this feature has been disabled.

If charging through a multiple port USB hub, a separate power supply for the hub may be required to provide enough current for proper charging.

**Power Saving:**

The programming device has two levels of power saving enabled to help increase run time between charges. The first level of power saving will dim the display after several seconds. The second level of power saving will turn the display off. There will be a dim red dot illuminated in the display to indicate that it is in power saving mode. To recall the display, press any button.

If the programming device will not be used for several hours, it is good practice to turn off the programming device by using the ON/OFF switch located on the side of the unit.

**Servicing:**

There are no serviceable items.



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