

# SBAL-PL™



## Technical Manual

### SINGLE BEAM AIMING LASER

VISIBLE GREEN LASER WITH 500 LUMEN WHITE LIGHT LED | ITEM #9017

**STEINER**   
Nothing Escapes You



## **EXPLANATION OF SAFETY ALERTS**

### **WARNING**

Identifies a clear danger to the person performing procedure.

### **CAUTION**

Identifies risk of damage to the equipment.

### **WARNING**

Be sure weapon is CLEAR and on SAFE before proceeding.

### **WARNING**

DO NOT store the SBAL™ with the battery installed.

### **WARNING**

The SBAL™ is powered by one 3V CR 123A Lithium Manganese Dioxide (Li/MnO<sub>2</sub>) battery. The following safety precautions apply when handling lithium batteries:

- DO NOT short circuit, puncture, or disassemble.
- DO NOT attempt to recharge.
- NEVER dispose of lithium batteries in a fire, or in any way expose lithium batteries to excessive heat.

- Batteries may explode if disassembled, crushed, recharged, or exposed to high temperatures.
- Avoid mechanical or electrical abuse.
- Prior to use, inspect all batteries for cracks, leakage, or bulging.
- NEVER install a defective battery in the SBAL™.
- DO NOT install battery incorrectly.
- Store at room temperature.
- Refer to applicable federal, state, and local laws and regulations for proper disposal of the batteries.

### **WARNING**

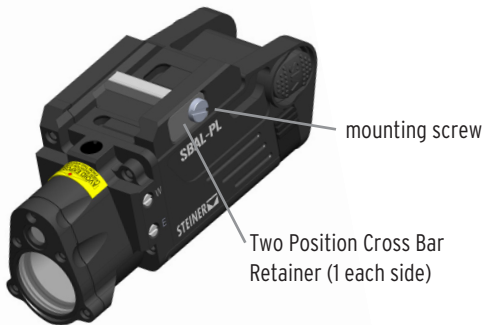
- DO NOT stare into the laser beam.
- DO NOT look into the laser beam through binoculars or telescopes.
- DO NOT point the laser beam at mirror-like surfaces.
- DO NOT shine the laser beam into other individual's eyes.

### **CAUTION**

DO NOT over-stress the laser adjusters by forcing them beyond their end of travel.

## MOUNTING TO WEAPON:

1. Ensure weapon is unloaded and magazine is removed prior to mounting unit.
2. Turn mounting screw counterclockwise to open mount.
3. The cross bar retainers (1 each side) may be adjusted when the mount is open to provide two mounting positions. Ensure both are orientated the same way.
4. Rotate and slide unit into desired position and turn mounting screw clockwise. Do not over tighten screw.
5. Ensure unit is attached firmly to weapon prior to shooting.



## BATTERY INSTALLATION:

1. Install battery prior to mounting on to weapon.
2. Using fingers only, firmly push on grooved area on latches and open battery lid.
3. Install battery with polarity as marked.
4. Close battery lid and firmly push on latches until properly engaged.



## OPERATION:

1. Unit may be operated in either of two modes, laser only, or laser and light simultaneously.
2. Both on/off pushbuttons are identical in operation.
3. Press either button once to activate laser only.
4. Press either button twice in rapid succession to activate the laser and light simultaneously.
5. Press either button again to deactivate operation.



## **LASER ALIGNMENT WINDAGE/ELEVATION ADJUSTMENT:**

1. Ensure weapon is unloaded and magazine is removed prior to adjusting windage/elevation.
2. Elevation adjustment is achieved by turning the screw marked "E".  
Turn screw clockwise to move laser down. Turn counterclockwise to move laser up.
3. Windage adjustment is achieved by turning the screw marked "W".  
Turn screw clockwise to move laser left. Turning counterclockwise to move laser right.
4. Adjust laser into a desired location. Once alignment is achieved fire 5 rounds to settle laser movement. If laser moves out of alignment re-adjust according to steps 1, 2 and 3. Repeat this exercise until laser retention is achieved.



**MAINTENANCE:**

- Never use strong cleaners or solvents.
- Do not use liquid cleaners inside battery compartment.
- Use alcohol and soft towel to clean front windows.

**VISIBLE LASER:**

Type: Green

Output: <5 mW

Wavelength: 510-530 nm

FDA Class: IIIa

Temperature: -10° to + 65°C

**TACTICAL LIGHT:**

Type: White Light LED

Lumens: 500

**ADDITIONAL SPECIFICATIONS:**

Weight: 4.6 oz

Length: 3.46 in

Width: 1.31 in

Height: 1.40 in (installed)

Battery: 1 x CR123A

Battery Life: >1 hour

Material: Aircraft Aluminum 6061-T6/ MIL-SPEC Type III hard coat anodizing.

Immersion: Waterproof to 5m



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