

Prizmatix

USER MANUAL

Portable-FC-LED Fiber Coupled LED



Ver 1.5

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1 Introduction

The Fiber Coupled LED (FC-LED) is a battery operated illuminator designed to provide 365nm LED illumination through a flexible optical fiber.

1.1 Features

- High Power LED
- Precise control over LED current setting by the use of 10-turn potentiometer with dial.
- Secured ON/OFF switch
- Battery operated device (2 x 9V batteries)

1.2 Specifications

Optical connector type: SMA

Batteries: Standard Alkaline 2 x 9V (6LR61) batteries.

Dimensions: 75mm x 40mm x 120mm (W x H x L) without extrusions

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2 Overview



Fig. 1: FC-LED Front Panel controls :

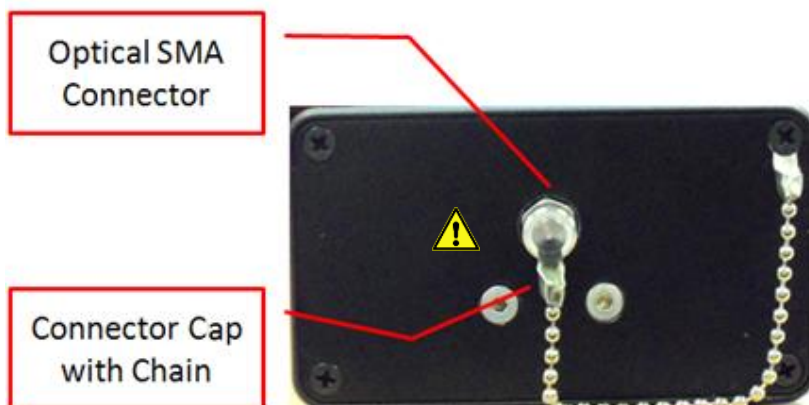


Fig. 2: FC-LED Back panel

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3 Safety

Please make yourself familiar with the contents of these operating instructions before using the Portable-FC-LED illuminator system. Use the illuminator only as specified in this manual. Otherwise, the protection provided by the illuminator may be impaired.

The Portable-FC-LED illuminator should be used exclusively with the Optical Fiber supplied with the device. Use of other Optical Fibers may cause significantly affect the performance and safety and in some cases even a damage to the illuminator.

The following symbols are used for the warnings:

 **CAUTION!** Non-observance of the safety notes constitutes a hazard for the user.

 **CAUTION!** Non-observance of the safety notes constitutes the risk of damage to the instrument.

Do not use the illuminator if it is damaged. Before you use the illuminator, inspect the case. Look for cracks or missing parts.

Do not use the device around explosive gas.

Never operate the illuminator with the cover removed or the case open.

Before turning on the device ensure that the batteries are installed with correct polarity.

We recommend that during long periods of nonuse, the battery should be removed, as it may leak and that could damage your unit.

Do not dispose of used batteries in a fire or in water.

Any maintenance should ONLY be performed by a Prizmatix authorized technician.

Eye safety

The illuminator is assigned to “Exempt Group” according to IEC 62471: 2006

Even so precautions must be taken to prevent looking directly at the light with unprotected eyes or illuminating the light on skin. Especially by no means do not use the illuminator without the Optical Fiber connected to SMA port!

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4 Operating the Illuminator

4.1 Battery installation

Ensure that ON/OFF switch is in OFF position. Use small flat screwdriver to open the battery compartment as shown at Fig. 3. Notice the correct slot for insertion of the screwdriver. The labels inside the battery compartment show the correct battery polarity (Fig. 4). Fig. 5 shows the batteries installed in the device. Make sure the battery door is closed and secured before operating the device.

- !** **CAUTION!:** Both batteries should be of the same type.
Do not mix rechargeable and non-rechargeable batteries.
Do not mix new / old or full / part-charged batteries



Fig. 3: Battery compartment opening.



Fig. 4: Battery polarity labels.



Fig. 5: Batteries installed in the device.

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4.2 Device Operation

Open the SMA connector protection cap on the back panel and connect the optical fiber to the SMA port.

Turn the power adjust dial counterclockwise to decrease the power setting to the lowest level.



Fig. 6: Optical Fiber connected to the SMA port.

⚠ CAUTION: Do not use the illuminator without the Optical Fiber connected to SMA port!

Switch ON the system with the ON/OFF switch on the front panel of the device. The small LED indicator should turn on while device is at ON state.

The On/Off switch features a locking lever in order to prevent accidental operation of the LED which might turn the LED on without notice and consume battery power resulting in empty batteries. In order to toggle between ON and OFF positions, just pull the spring loaded lever and toggle between positions. When released, the spring will keep the lever locked in this position.

Adjust the required power level by the power adjust dial.

The power adjustment dial has a small lever enabling fixation of the dial.

Always close the protection cap when a fiber is not connected.

4.3 Battery replacement

When the light intensity decreases, replace the batteries with fresh ones.

Follow section 4.1 for opening the battery compartment and re-installing batteries

⚠ CAUTION: Do not attempt to charge non-rechargeable batteries!

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4.4 Cleaning

Keep the connector port clear from dirt and do not leave it open. Keep closing the SMA port with the chained cap when the fiber is not connected.

! **CAUTION:** Do not try to clean inside the port – you may damage the illuminator!

The box can be wiped with mild wet-wipes.

! **CAUTION:** Do not attempt to use chemicals, e.g. Alcohol or Acetone – you may damage plastic components

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