

7. Advertent Items

Attention: The light source maybe hurt to eyes, so it is forbidden that the user looks at the light output end directly when you operate the instrument in order to avoid the light burn the eyes!

Note: If you use dry battery, do not recharge the battery. That is dangerous!

Please pay attention to the followings in order to keep the performance of the instrument and prolong its service time.

--The instrument should be avoided of mechanical oscillation, collision, fall off and any other mechanical damage.

--The light output connectors should be avoided the touch of the hard objects, dirty objects, acid, alkali and other caustic objects. Please cover the dustproof cap to avoid the dust and other bad chemical objects.

--Please clean the fiber jumper earthen port using alcohol and operate it after the alcohol is air-dry.

--It is forbidden that the user looks at the light output end directly when you operate the instrument to avoid the light burn the eye and skin.

--Clean the ceramic core regularly

--The battery should be taken out if the instrument is out of operation for a long while, otherwise, the service time of battery will be affected.



XL-FLS130 Laser Source

User Manual

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warning voltage, the equipment will alarm "Low voltage" every 20 seconds. When the battery voltage is lower than protection voltage, it will be in auto turn-off state. The equipment should be charged in time, charging time is about 4 to 6 hours, please observe the charger, if the charging indicator light becomes from red to green, which means the battery is full.

6. When the equipment is not in use, the user should immediately cover the dust cap to keep the adapter clean.

6. Faults & Solutions

Faults	Reasons	Solutions
The instrument cannot be switched on	The battery is under low voltage	Charge the battery at once
No optical power output	The earthen core of the connector is broken	Replace the connector
The optical power is decreased	Connector and the inner light caudal fiber earthen core are dirty	Clean the earthen core using absorbent cotton with alcohol

shutdown logo  is displayed on the screen. Open and turn off the automatic shutdown function: Press "off" button on the screen, auto-off mark  disappear, which shows the automatic shutdown function is closed; and then press "off" button, automatic shutdown logo  is displayed on the screen at this time has indicated that the automatic shutdown feature open. If there is no operation for 10 minutes, the equipment will automatically shutdown.

2. Wavelength switch function



Press "wavelength" button when power on, you can switch different wavelengths, and LCD screen display the different output wavelength.

Note: If you want to switch the 1310nm, 1550nm wavelength to 850nm, 1300nm (XL-FLS130AC) or 1625nm (XL-FLS130AD) or 650nm (XL-FLS130AE), do not forget to change the output adapter.


3. Modulation output

Press the "Mode" button, you can achieve the modulated light 270Hz, 1 kHz, 2 kHz, 330Hz, 650nm red light 2Hz (650nm,2HZ only for XL-FLS130AE) , continuous light output, at the same time, on the LCD screen the equipment will show the corresponding modulation frequency of the state.

4. Backlight

Press "" button to turn the backlight on or off. When the backlight is on, the sign  will display on the screen, otherwise this sign disappear. If the backlight is in a closed state, the operation of any function key will open the 8 seconds' backlight besides pressing "start" button.

5. Under-voltage

When the battery voltage is low, the power indicator become , when the battery voltage is lower than

1. Summary

With better performance and special fast field testing function, XL-FLS130 Laser source adopts advanced technology of exact light and dealing with technology and to support high performance light for the field test and the lab development. It has been an ideal instrument for maintenance and development of optical network equipments.

XL-FLS130 can be widely used in various kinds of optical cable testing fields, such as LAN, WAN, CAN, CATV and long-distance Fiber Network.

Together with ST800 series optical power meter, XL-FLS130 Laser Source can support stable light signal on many kinds of wavelength, it can recognize the fiber, test the fiber loss and continuity accurately, help to evaluate the transmission quality of fiber chain as well.

2. Features

2.1 Handheld, easy to operate

2.2 Two to four wavelength optional

2.3 Continuous light, modulated light output

2.4 Output double wavelength or three wavelengths through single adapter

2.5 Output three or four wavelength through double adapter

2.6 High stabilization

2.7 Auto shut off function without operation in 10 minutes

2.8 Big LCD, intuitive, easy to use

2.9 LED backlight switch on/off

2.10 Auto close back light in 8 seconds

2.11 AAA dry battery or Li battery

2.12 Battery voltage display

2.13 Low voltage checking and shut off design to save energy

3. Specifications

3.1 Emitter type: FP-LD/DFB-LD

3.2 XL-FLS130x Wavelength: depends on model

3.3 Spectral width: $\leq 5\text{nm}$

3.4 Output Power: $\geq -7\text{ dBm}$, $\geq 0\text{dBm}$ (customized) ,650 nm $\geq 0\text{dBm}$

3.5 Stability in short time: $\leq \pm 0.05\text{dB}/15\text{min}$

3.6 Stability in long time: $\leq \pm 0.1\text{dB}/5\text{h}$

3.7 Light output mode: CW continuous light, 270Hz, 1kHz, 2kHz, 330Hz modulization output, 650nm red light 2Hz (650nm, 2Hz only for XL-FLS130AE)

3.8 Battery display: LCD

3.9 Working wavelength and modulated light display: LCD

3.10 Battery: 3 pieces AAA dry battery or Li battery

3.11 Low voltage: If the battery voltage is low, auto warning every 20s

3.12 Low voltage shut off: When the battery voltage is low, this meter will auto shut off

3.13 Battery working duration: dry battery about 15 hours

3.15 Working temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

3.16 Storage temperature: $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$

3.17 Relative Humidity: $\leq 90\%$

3.18 Dimension (mm): $160 \times 76 \times 28$

3.19 Weight: 0.22Kg

4. Layout



XL-FLS130A,

1. 1310nm, 1550nm output adapter
2. LCD
3. Operation buttons
4. Charging socket

5. Operation

1. Power On/Off

Press "On" key 2 seconds to start the equipment, LCD displays operating wavelength, battery voltage and modulation state. When you open the XL-FLS130, it works on 1310 nm wavelength and continuous light output state; press "off" key 2 seconds to close the equipment. The system defaults auto-shutdown, auto