Technical Specifications

Model	Units	530 Dual		530 Single					
Wavelength	**nm**	**850**	**1300**	650	850	**850**	**1300**	1300	1550
Wavelength Range	**nm**	**+/- 20**	**+/-20**	+/-20	+/-20	**+/-20**	**+/-20**	+./-30	+/-30
Spectral Width (FWHM)	**nm**	**35**	**135**	35	50	**35**	**135**	60	50
Stability 1 hr. max. deviation	**dB**	**<0.05**	**<0.05**	<0.15	<0.15	**<0.05**	**<0.05**	<0.03	<0.05
Power Output (Set Point min.) 9/125 SMF 50/125 .21 NA GI MMF 62.5/125 0.23 NA GI MMF 100/140 0.29 NA GI MMF 200/240 0.22 NA SI MMF* 980/1000 POF	**dBm**	**N/A** **-17** **-17** **-17** **-17** **-**	**N/A** **-17** **-17** **-17** **-17** **-**	N/A - - - - -3	N/A -10 -9 -8 -7 -	**N/A** **-18** **-16** **-14** **-12** **-**	**N/A** **-18** **-16** **-14** **-12** **-**	-18 -14 -13 -12 -12 -	-20 -16 -15 -14 -14 -
Modulation Frequencies	**Hz**	**270, 1000, 2000**		**270, 1000, 200 + External Modulation Capable up to 1 MHz**					
Functions		**MOD (CW DC or modulated output mode), SOURCE (selectable frequency)**							
Auto Shutoff/ **Shutoff Disable**		**Unit powers down 15 min. after last key has been depressed.** **User-selectable disable function**							
Power	**V**	**Requires one 9 Volt alkaline battery (>20 hrs. battery life*)**							

Specifications subject to change without notice. *Typical **BOLD TYPE** are standard LED sources.

Battery

The battery is easily replaced via the back sliding compartment door. The light source should be "OFF", and the battery properly connected and seated within the compartment. If a high power LED is used in the light source, longer-life alkaline batteries are recommended. Higher power LEDs draw high current, substantially reducing battery life.

External Modulation

The external modulation port is intended to provide a simple, digital optical signal from an input electrical signal. Connection is made through an electrical SMA connector at the top of the light source. An input signal of 0—5 Volt (max.) is converted into a pulse waveform at the input signal frequency. A frequency up to 1 MHz can be applied.

Warning

Operation of this LED Light Source must conform to the specifications and instructions provided herein. Please read and understand the entire contents of this manual before operation.

Connector Interface Cleaning

It is important that the connector interface be kept clean and free of contamination. Prior to insertion of any connector into the light source optical port(s), proper cleaning of the connector should be done to industry-standard procedures. Various cleaning methods include commercial adhesive cleaners (CLE-TOP, etc.), or swabbing the connector end with alcohol and dusting/drying with canned air.

Adaptors

Cercis offers an option of FC optical port or interchangeable click-on/click-off precision machined stainless steel connector adaptors (SC, FC, ST & 2.5 mm ferrule universal).

Calibration and Maintenance

Each **Cercis** light source is calibrated to NIST traceable standards. The unit should be returned to **Cercis** on an annual basis for recalibration.

Cercis, Inc.
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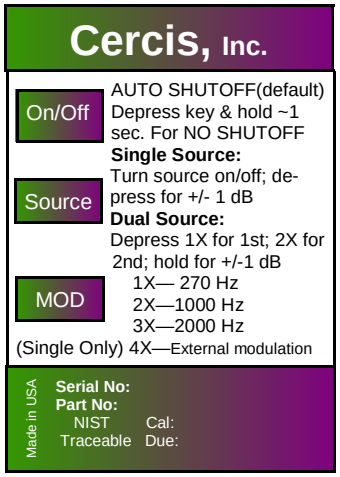
Pennington, NJ 08534
TEL: 609-737-5120
FAX: 609-564-0546
EMAIL: info@cercis.com
URL: www.cercis.com

Thank you for purchasing a **Cercis** Model 530 LED Light Source. This product is designed to provide many years of productive service.



The label shown at left is on the back of each **Cercis** LED Light Source..

Included are brief operating instructions, annunciator meanings, unique serial number, **Cercis** part number, the calibration date and recalibration due date.

Easy as 1, 2, 3 ... *or*

Operating Instructions

1) Depress **ON/OFF** key to turn the light source on and off. The default is **AUTO SHUTOFF** which automatically turns off the light source if a key is not depressed within 15 minutes. Depress any button within the 15 min. interval to restart the timer.

Override to **NO AUTO SHUTOFF** by holding the **ON/OFF** key down ~ 1 second, disabling the power saver feature and the light source will not shutoff until (unless) the battery discharges or an operator pushes **ON/OFF**.

2) Press and release the **SOURCE** key to activate the source.

Single Source: Calibrated output power

Depress and hold **SOURCE** key to cycle the power up 1 dB or down 1 dB from the calibrated output power level (std.-20 dBm).

(continued next page)

On/Off, Source & MOD

Dual Source: Depress **SOURCE** 1X to illuminate the 1st source (850 nm); depress 2X for the 2nd source (1300 nm). Depress and hold **SOURCE** key to cycle either source up 1 dB or down 1 dB from the calibrated output power level (std. –20 dBm). All calibrated wavelength options are NIST traceable.

3) Press **MOD** key 1X for 270 Hz modulation (the green indicator LED slowly blinks); 2X for 1000 Hz modulation (the indicator LED blinks faster); 3X for 2000 Hz modulation (the indicator LED blinks rapidly). For single sources, depress 4X for external modulation (up to 1 MHz—the indicator LED will remain illuminated). Depressing MOD again will turn off modulation. Modulation can also be turned off by depressing **SOURCE** key or **ON/OFF** (which will turn the light source off) key.

For optimum results, select the light source best suited to your power meter range.

Operator's Manual

Cercis, Inc.

Model 530 LED Light Source

Reference this manual for proper operation and maintenance of your **Cercis** Model 530 LED Light Source.