

# Technical Specifications

| Model   | Units | 52-S-63  | 52-S-65               | 52-S-67               |
|---|-------|--|-----------------------|-----------------------|
| Wavelength  | nm    | <b>635</b><br>Laser  | <b>650</b><br>VCSEL   | <b>670</b><br>Laser   |
| Wavelength Range  | nm    | +/- 20   | +/-20                 | +/-20                 |
| Spectral Width (FWHM)   | nm    | 2  | 2                     | 3                     |
| Stability<br>1 hr. max. deviation   | dB    | <0.05  | <0.05                 | <0.05                 |
| Power Output<br>(Set Point min.)<br>9/125 SMF<br>50/125 .21 NA GI MMF<br>62.5/125 0.23 NA GI MMF<br>100/140 0.29 NA GI MMF<br>200/240 0.22 NA SI MMF* | dBm   | 0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0 |
| Auto Shutoff/<br>Shutoff Disable  |       | Unit powers down 15 min. after last key has been depressed.<br>User-selectable disable function                                    |                       |                       |
| Power   | V     | Requires one 9 Volt alkaline battery (>20 hrs. battery life*) or optional AC Adaptors (neg. center) 120 VAC or 90-264VAC Universal |                       |                       |

Specifications subject to change without notice.

\*Typical

**BOLD TYPE** are standard Laser sources.

\*\*All sources are standard with **BOLD** typed fiber interface. Use of same size or larger fibers (*italic*) will yield the same output power since the unit contains a fiber-pigtailed source.

## Battery

The 9 V alkaline 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. Follow the polarity diagram on the bottom of unit; incorrect battery connection may result in permanent damage to this instrument.

## AC Adaptor (1.3 mm pin / center negative)

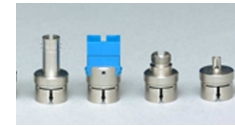
Connect the lead from the A604 AC adaptor to the side of the unit, then plug the adaptor into a 120 V AC outlet. Converters may be used with the adaptor for other currents. For the A605 universal adaptor, snap in the outlet plug needed (US, Europe, UK, or Australia), then plug the adaptor into a 90—264 V AC outlet.

## Warning

**Operation of this Visual Laser 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, 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.



ST, SC, FC, 2.5 mm universal  
(LC, 1.25 mm universal also available)

## Adaptors

**Cercis** offers an option of interchangeable click-on/click-off precision machined stainless steel connector adaptors. Standard SC, FC, ST & 2.5 mm ferrule universal adaptors are available.

**Cercis** adaptor imitates a connector-to-connector adaptor; interchangeable adaptors allow removal of the split sleeve for cleaning of the connector inside the light source.

## 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.

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URL: [www.cercis.com](http://www.cercis.com)

Thank you for purchasing a **Cercis Model 52 Visible Fault Finder**. This product is designed to provide many years of productive service.

**Cercis, Inc.**

|                                       |  |
|---------------------------------------|--|
| On/Off                                | AUTO SHUTOFF(default)<br>Depress key & hold ~1 sec. For NO SHUTOFF |
| (Caution: Laser is on if power is on) |  |
| MOD                                   | 1X— Slow Blink<br>2X—Fast Blink<br>3X—Fastest Blink                |
| AC Input: Center negative only        |  |
| Made in USA                           | Serial No:<br>Part No:<br>NIST Cal:<br>Traceable Due:              |

The label shown at left is on the back of each **Cercis Visible Fault Finder**.

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

#### Limited Warranty

Cercis makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that the product be free from defects in materials and workmanship: 1 year limited warranty (unless otherwise specified)

Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alternations made outside our facilities or to a lack of maintenance. Cercis limits all implied warranties to the period specified above from the date the product was purchased. Except as stated herein, any implied warranties of merchantability and fitness are excluded. Cercis shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damage arising from the use of its products. To take advantage of this warranty, the product must be approved for return for examination, postage prepaid, to Cercis. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, Cercis will either repair or replace the product with a product of equal or higher performance. If it is determined that the defect resulted from causes not within the scope of Cercis warranty, then the purchaser must bear the cost of repair and return shipping.

## Operator's Manual



# Model 52 Visible Laser Fault Finder

## 1, 2 ...On/Off & MOD

### Operating Instructions

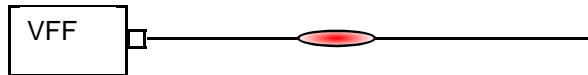
1) Depress **ON/OFF** key to turn the light source on and off. The default is **AUTO SHUTOFF** which automatically turns off the light source if a key is not depressed within 15 minutes. Depress any button within the 15 min. interval to restart the timer.

Override to **NO AUTO SHUTOFF** by holding the **ON/OFF** key down ~ 1 second (the power LED blinks once), 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 **MOD** key 1X for slow blink (the red indicator LED slowly blinks); 2X for fast blink (the indicator LED blinks faster); 3X for fastest blink (the indicator LED blinks rapidly). Modulation can also be turned off by depressing **ON/OFF** (which will turn the light source off) key.

LS52-0501-0

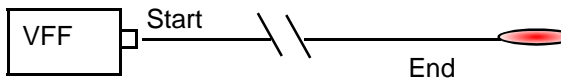
## Uses for a VFF



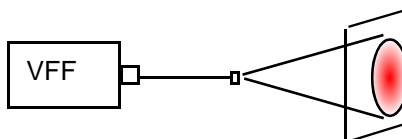
1 Detect fiber breaks or microbends



2 Optical splice, connector or component mfr.



3 End-to-end fiber identification



4 End face / optical element inspection



Reference this manual for proper operation and maintenance of your **Cercis Model 52 Visible Fault Finder**.