



CERCIS

Cercis, Inc.

Cercis



Beacon

Putting Light to the Test

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Cercis Introduces 500-Series Handheld Test Units

Cercis, Inc., introduces the Model 510 Optical Power Meter, the Model 520 Laser Light Source, and Model 530 LED Light Source. All instruments are available immediately, and are powered either with an internal 9 V battery or optional AC adaptor. All are housed in a small 3X5X1" rugged thermoplastic housing cradled within a rubber holster.

The Model 510 optical power meter is offered with a choice of three different detectors – 3 mm Germanium for 750 – 1500 nm (510g); 2 mm InGaAs for 850 – 1650 nm (510i); and 13 mm Silicon for 400 – 1100 nm (510s). optical input power range is +3 to –60 dBm; readout on the graphic display is in two modes – dB and dBm, with relative store feature. Interchangeable click-on/click-off fiber optic adaptors – FC, ST, SC and 2.5 mm universal – are available. AC adaptors are also offered.

The Model 520 laser light source is available in either single or dual source versions, at wavelengths of 650, 780, 1310, 1550 & 1625 nm. All features, including modulation frequencies of 270, 1000, and 2000 Hz (and external up to 1 MHz on single source units) are accessed via

the three keys. LED indicators illuminate at power on, source on, and modulation speed. Standard power levels are –10 dBm; higher power and custom units are available.



Cercis Model 520 / 530 Single Laser / LED Light Source, Model 510 Power Meter, Model 520 / 530 Dual Laser / LED Source

The Model 530 LED single or dual wavelength light source is available at 850 and 1300 nm. Powers available range from –10 to –20 dBm, depending on the fiber type to be tested and the LED source. Three front keys provide all functions and red or green LEDs illuminate at power on, source on, and modulation.

Cercis to Attend OFC 2001 in Anaheim, CA

Cercis will exhibit its array of optical power meters and laser or LED light sources at OFC 2001, Booth 4449, at the Anaheim Convention Center, March 19–21, 2001.

Cercis invites you to fill out and bring in the entry card on the back page for a chance to win a Model 510i optical power meter. The winner will be announced prior to the close of

the show Wednesday afternoon, March 21, and in the Spring Issue of the Cercis Beacon. Winner need not be present to win. If you are unable to attend, mail the card back to Cercis to arrive prior to March 17, or give it to a friend to drop off at our booth.

Please stop by during the show for a demonstration of the Model 610i data logging OPM.

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Next issue:

90–264 VAC 9 VDC
Interchangeable Adaptor

Credit Cards Accepted
VISA, Mastercard, Amex

Highlights:

- Optical Power Meters with and without data logging
- Laser Light Sources—Single & Dual Wavelength with Interchangeable Adaptors—singlemode or multimode fiber testing
- LED Light Source—Single & Dual Wavelength with Interchangeable Adaptors for multimode fiber testing
- Optical Loss Test Sets—mix & match instruments for your testing requirements

Optical Power Meters—Models 510g, 510i, 510s & Model 610i Data Logging

Cercis Model 510 & 610 Optical Power Meters include a graphic display, interchangeable fiber optic adaptors, 9V battery or AC adaptor power option, and a choice of Germanium, InGaAs or Silicon Detectors. Each unit is housed within a small, but rugged 3 X 5 X 1" thermoplastic housing, with protective rubber holster.

The Model 510 provides basic loss testing with reference set. Three keys on the front of the unit perform all operations. The unit displays dB or dBm, and may be set to a reference reading.

The Model 610i can measure power levels from +3 dBm to -60 dBm, over 850–1700nm. Optical power measurements, data storage and retrieval, and report printing or PC downloading are easy—using the 5 keys and pull-down menus. The 610i holds up to 1000 separate data records—each with a power reading, reference value, and calibration wavelength. This information can be stored and retrieved from the instrument's non-volatile



Cercis Model 610
Optical Power Meter

memory. Stored measurement data can be printed or downloaded into a PC via an RS232 port on the side of the instrument. Power measurements can be made in dBm or microwatts. Resolution is 0.01 dB, and there are 7 stored calibrated wavelengths (850, 980, 1300, 1310, 1480, 1550 & 1625 nm).

Either the Model 510 or 610i can be used in conjunction with Cercis dual- or single-wavelength light sources, and can be provided as a loss test set or within a custom kit with accessories.

Optical Loss Test Sets & Kits

Cercis offers optical loss test sets designed to measure loss on single mode and multimode fiber systems. Combine a laser, VCSEL, or LED light source with a 510 power meter for basic loss testing with reference set. Any single wavelength light source used with the 610i optical power meter will provide data storage and fiber documentation; or use a dual light source with the 610i for simultaneous loss measurement at two wavelengths (850/1300nm, 850/1310nm, 1310/1550nm, or 1550/1625nm).

Cercis Model 520 single or dual laser/VCSEL sources or Model 530 single and dual LED light sources are all available for inclusion in a loss test set kit with a Model 510 or Model 610 OPM. All dual light sources are offered with either two optical ports or a

single optical port. The single port allows faster testing of two wavelengths without disconnecting the connector. Additionally, the optical port can be either FC-style or interchangeable adaptors—accommodating FC, ST or SC single connector types. Both light source and OPM are powered with an internal 9V battery or an optional 120V AC adaptor. The instruments are housed within compact, rugged 3 X 5 X 1" thermoplastic housings, each with protective rubber holster.

“combine a laser, VCSEL or LED light source with a 510 power meter for basic loss testing with reference set..... or with a 610i for data storage and fiber documentation.....”

LED Light Sources—Single & Dual Wavelength—Multimode

Cercis Model 530 LED single or dual wavelength light source is available at 850 and 1300 nm. Powers available range from -10 to -20 dBm, depending on the fiber type to be tested and the LED source; higher power or custom wavelengths are also offered. All features, including modulation frequencies of 270, 1000, and 2000 Hz (and external up to 1 MHz on single source units) are accessed via the three front keys. LED indicators illuminate at power on, source on, and modulation speed (slow blink (270 Hz), fast blink (1000 Hz), faster blink (2000 Hz), and rapid blink (external modulation—single source only)).

The optical port is either FC-type, or interchangeable—available in FC, ST, or SC adaptor styles. Each dual source can be supplied

with one or two optical ports. The Model 530 LED source can be used with Cercis Model 510 or 610 power-meter test set, and can be provided in a custom kit with accessories.



Cercis Model 530 Single & Dual LED Light Sources

Laser Light Sources—Single & Dual Wavelength—Model 520

Laser light sources include standard wavelength Fabry-Perot lasers at 650, 780, 1310, 1550 & 1625nm for use with single mode fiber, or VCSELS at 850nm for multimode fibers. Standard power for all infrared wavelength lasers is -10 dBm (100 μW); visible 650 nm lasers are provided at 0 dBm (1 mW). Higher laser powers or different wavelengths are available on a custom basis.

VCSELS provide -20 dBm (50 μW) into 62.5/125 MMF. Standard dual laser sources include: 850 VCSEL/1310 nm laser for Fiber Channel & Gigabit Ethernet MMF testing, 1310/1550 nm or 1550/1625 nm LDs for single mode fiber analysis. All dual light sources are offered with either two optical ports or a single optical port. The optical ports can be either FC-style or interchangeable adaptors—accommodating FC, ST or SC single connector types. All light sources may be used in conjunction with Cercis Model 510 or 610 optical power meters. Combine a laser, VCSEL, or LED light source with a 510 power meter for basic loss



Cercis Single and Dual Wavelength Light Sources have Interchangeable FC, SC or ST adaptors; single or dual ports are available.

testing with reference set. Any single wavelength light source used with the 610i optical power meter will provide data storage and fiber documentation; or use a single port dual light source with the 610i for simultaneous loss measurement at two wavelengths:

- 850/1300nm,
- 850/1310nm,
- 1310/1550nm,
- or
- 1550/1625nm

Custom Projects and Applications

Custom Instruments

Cercis can provide custom test instruments designed for specific test and measurement applications, based on our standard products or new designs. These instruments integrate fiber optic, optical, mechanical, and computer embedded systems to provide a custom turn-key test solution. Examples include: Multi-element test opto-electronics for active device burn-in or monitoring, and specialized light sources for in-process quality control and final testing.

Fiber Optic Test System Integration

Cercis can integrate third-party test instruments for specific test or manufacturing applications. Utilizing LabView (R), C++, Visual Basic, or embedded processor assembly language, equipment

can be fully integrated for automated test with links to spreadsheet or database software. Example: laser diode or photodiode in-process and final characterization.

Manufacturing Automation

Cercis can provide engineering design and development services - either by contract or on a time and materials basis - for fiber optic manufacturing automation. Example: design and integration of high-throughput component manufacturing systems.

“Cercis can provide custom test instruments designed for specific test & measurement applications... integrate third-part test instruments.. (or) provide engineering design & development services”

LabView is a registered trademark of National Instrument

Cercis (ser'sis)

Cercis is the botanical name for the Eastern Redbud—a small tree native to the Eastern United States—growing from Maine to Florida. The Cercis canadensis has dark bark, large heart-shaped dark green leaves, and purple flowers in spring—hence Cercis company colors are black, green and purple. The Cercis is a hardy, understory tree—secure next to giant sycamores, maples, and ash and intermingling with other native trees—dogwoods, hollies and birches. Likewise, Cercis, Inc., blossoms among fiber optic industry giants, as well as small and medium-sized companies.

Cercis thanks you for your interest in its products. This section of this newsletter is reserved to enlighten the reader about things

horticultural. For further information, consult: Dr. Micheal Dirr's "Manual of Woody Landscape Plants" and "Plants that Merit Attention" from The Garden Club of America.

March 4—11:

Philadelphia Flower Show



Cercis canadensis (Eastern Redbud)
Bark: Black/brown Flowers: Purple or white
Leaves: Dark Green / Fall: Yellow

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Putting Light to the Test

We're on the Web!
www.cercis.com

Cercis offers a dual laser source for testing of FiberChannel and Gigabit Ethernet installations of multimode 50/125 or 62.5/125 fiber. The light source contains a 850 nm VCSEL laser diode and a 1310 nm Fabry-Perot laser diode. The dual laser source is offered with either two optical ports or a single optical port. The optical port can be either FC-style, or can have interchangeable adaptors – accommodating FC, ST, and SC single connectors.

This dual laser source – the Model 520-8513M62 – may be used with Cercis Model 510g or 510i optical power meters. The single port of the light source allows faster testing of two wavelengths without disconnecting the connector. All features – including sources and modulation – are accessed via three keys on the front of the unit. The light sources are powered with an internal 9V battery or an optional 120 V AC adaptor.

Cercis produces a dual laser source for testing of Single Mode Fiber Installations at both 1550 nm and 1625 nm. The light source contains both 1550 nm and 1625 nm Fabry-Perot laser diodes. The dual laser source is offered with either two optical ports or a single optical port. The optical port can be either FC-style, or can have interchangeable adaptors – accommodating FC, ST, and SC single connector types.

This dual laser source – the Model 520-1516-509 – may be used in conjunction with Cercis Model 510i or 610i optical power meters. The single port of the light source allows faster testing of two wavelengths without disconnecting the connector. All features – including sources and modulation – are accessed via three keys on the front of the unit.

Both light source and optical power meter are powered with an internal 9V battery or an optional 120 V AC adaptor. The instruments are housed within compact, rugged 3 X 5X 1" thermo-plastic housings, each with protective rubber holster.



Cercis Model 520 Dual Laser Light Sources—
 Single Port with Interchangeable FC, SC, & ST Adaptors

Cut along the dashed line and return to Cercis.

You Could be a Winner! Enter to Win a Model 510i Optical Power Meter

Cercis Invites You to Enter to Win a Model 510i Optical Power Meter at OFC'2001. To enter: Complete the form below and drop it off at Cercis Booth #4449 before 2:00 p.m. March 21, or return this card by mail by March 17, 2001.

YES!

Enter me in the drawing to win a Cercis Optical Power Meter

Name: _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ FAX: _____

EMAIL: _____

Primary Function: Engineering _____ Research _____

Technician _____ Scientist _____ Purchasing _____

Sales/Mktg _____ Management _____ Other _____

Do you plan to purchase any of the following during the next
 1 mo _____ 3 mos _____ 6 mos _____ 1 yr _____

Light Source _____ OPM _____ VFF _____

Have a Cercis representative contact me. Add to mail list.

Tell us about a product which would be useful to you and why.

Before returning, please make sure you have:

- ▶ Provided full & legible company name & address or attached a business card)
- ▶ Completed the form

To be eligible, please complete all information legibly.



Cercis Model 510i Optical Power Meter with Interchangeable Adaptors—SC, FC, ST, & 2.5 mm Universal

Thank You & Good Luck!