



LI-1400 DataLogger

6604

Versatile and rugged.

Each channel can be custom-configured to collect data for logging periods ranging from 1 second to 24 hours. Sampling intervals range from 1 second to 1 hour. Data for each logging period may be averaged or integrated, and minimum and maximum readings can be stored. At the end of each period, an instantaneous point reading can be taken. Nine math channels allow you to perform additional logging or math routines using any other current, voltage, or math channel. Two-line LCD display shows instantaneous or logged sensor outputs, stored data, and battery voltage. Datalogger has 96K bytes RAM for data storage. Formatted data allows for easy export to spreadsheet and database software. Datalogger case is splash resistant. Sensors sold separately below.

Resolution: 16 bit (1 part in 65,536). **Voltage accuracy:** $\pm 0.1\%$ of full scale reading (25°C); $\pm 0.15\%$ (0 to 55°C). **Current accuracy:** $\pm 0.2\%$ of full scale reading (25°C); $\pm 0.4\%$ (0 to 55°C). **Sampling interval:** Seconds: 1, 5, 15, 30; Minutes: 1, 5, 15, 30, 60. **Logging Periods:** Seconds: 1, 5, 15, 30. Minutes: 1, 5, 15, 30. Hours: 1, 3, 6, 12, 24. **Operating conditions:** -25°C to 55°C; 0 to 95% RH, non-condensing. **Storage conditions:** -30°C to 60°C; 0 to 95% RH, non-condensing. **Power:** 4 AA alkaline batteries (included). **Dimensions:** 8.6"L x 5.1"W x 1.7"D.

LI-1400 DataLogger

2.25 lbs. **92532**



LI-250 Light Meter

6603

Allows measurements in a variety of light environments.

Direct digital readout displays instantaneous sensor output of 15 second averages. Measures μmol , lux k lux or Wm^2 . Meter automatically selects range with best accuracy and resolution for a given input signal so that measurements can be made in a variety of light environments. High quality amplifier provides automatic zeroing capability and long term stability. Calibration multipliers can be entered easily, and two sensor multipliers can be stored in memory. HOLD key allows you to retain current reading or switch to measurement mode for continuous update of display. Low battery indicator. Automatically shuts off after 20 minutes of inactivity. Avoid contact with water. Sensors sold separately below.

Accuracy: 25°C: typically $\pm 0.4\%$ of reading ± 3 digits on the least significant digit displayed (all ranges); 0-55°C: typically $\pm 0.6\%$ of reading ± 3 digits on the least significant digit displayed (all ranges). **Range selection:** Autoranging (3 ranges). **Range:** 199 $\mu\text{mol s}^{-1} \text{m}^{-2}$, 1,999 $\mu\text{mol s}^{-1} \text{m}^{-2}$, 19,999 $\mu\text{mol s}^{-1} \text{m}^{-2}$. **Resolution:** 0.01 $\mu\text{mol s}^{-1} \text{m}^{-2}$, 0.1 $\mu\text{mol s}^{-1} \text{m}^{-2}$, 1 $\mu\text{mol s}^{-1} \text{m}^{-2}$. **Linearity:** $\pm 0.05\%$. **Display:** 4-1/2 digit LCD display, updated every 0.5 seconds in instantaneous mode. **Keypad:** Sealed, 5-key tactile response keypad. **Power:** One 9-volt alkaline battery (included). **Battery Life:** 150 hours. **Weight:** 0.57 lbs. **Dimensions:** 5.5"L x 3"W x 1.5"D.

LI-250 Light Meter

1 lbs. **92531**

Accessories for LI-1400 DataLogger and LI-250 Light Meter

LI-190SA Quantum Sensor (Terrestrial)*

Measures Photosynthetically Active Radiation (PAR) accurately in natural and artificial light. Also ideal for comparing underwater PAR measured by the Li-Cor® LI-192SA Underwater Quantum Sensor (sold separately). Cable measures 3 meters.

LI-190SA Quantum Sensor (Terrestrial)
6 oz. **92533**

LI-192SA Underwater Quantum Sensor*

For use with the Li-Cor® LI-1400 Datalogger (sold separately) to measure underwater or atmospheric photosynthetic photon flux density. For use in freshwater or saltwater in pressures up to 800 psi (5,500 kPa, 560 meters depth). Requires underwater cable and lowering frame, both sold separately.

LI-192SA Underwater Quantum Sensor
8 oz. **92534**

Underwater Cable*

For use with underwater sensors. Cable measures 3 meters.

Underwater Cable
12 oz. **92535**

Lowering Frame

Provides stability for the proper orientation of the sensor or sensors and minimizes shading effects.

Lowering Frame
12 oz. **92536**

LI-193SA Underwater Spherical Quantum Sensor*

For use with the Li-Cor® LI-1400 Datalogger or LI-250 Light Meter (sold separately). Measures underwater photon flux from all directions in saltwater or freshwater. Requires underwater cable and lowering frame, both sold separately.

LI-193SA Underwater
Spherical Quantum Sensor
8 oz. **92537**



WATER*MARK®

Limnological Secchi Disc With Detachable Sounding Weight

5072

This 20 cm dia. polycarbonate disc with a detachable 24 oz. zinc sounding weight features silk screened black and white quadrants. Includes stainless steel hardware, reel, and 20.0m nylon cord.

Heavy-Duty Professional Polycarbonate Disc



4 lbs. **77914**

M Metric



HawkEye® Portable Fish Finder

3647

Ideal for bottom contouring and mapping of lakes, rivers and creeks! Easy to use, simply turn it on and toss the floating transducer into the water, then view the screen for instant bottom structure and depth readings. Takes bottom structure, depth and fish readings from 3' to 120'. Other features include ShootThru technology which reads through boat hulls and ice, a battery saver mode, auto power off, a soft glow backlit display, 180° pivoting VirtuView LCD Icon Display, and a water resistant splashproof design. Unit includes a removable belt clip, storage bag, adjustable neck strap and a floating sensor with 35' of cable. **Power:** 4 AA Batteries for up to 20 hours battery life. **Dimensions:** 1.5" x 2.8" x 4.3". **Display Size:** 1.5" x 1.8". **Sonar Frequency:** 200 KHZ. **Sonar Angle:** 20°. Backed by a 2-Year Warranty from the manufacturer.

HawkEye Portable Fish Finder 1.5 lbs. **90302**



Aqua-Vu Underwater Infrared Viewing System

4097

Z-Series

This black and white viewing system features nine high-intensity, super-bright infrared LEDs for ultimate brightness underwater. The infrared lights can be turned off to eliminate reflection off certain particles in the water and to conserve battery power. A chrome light deflector magnifies the intensity of the light and eliminates "hot spots" on the viewing image. The camera's tough, rubber armored housing withstands underwater impact with rocks, stumps, and other obstacles. A removable sunshield provides a viewable screen in complete daylight but can be removed in low light situations for multi-person viewing. The video-out jack allows for convenient video recording without any additional accessories. Battery and charger included. One year manufacturer's warranty. **Camera size:** 2" diameter x 4"L. **Video specifications:** NTSC format. **Camera:** Infrared-lighted camera. **Lens:** 90° viewing angle.

Aqua-Vu Underwater Infrared Viewing System with 50' Cable 7.5 lbs. **92735**

Aqua-Vu Underwater Infrared Viewing System with 100' Cable 14.75 lbs. **92736**



Transparency/Turbidity Tubes

5073

Accurately measures water clarity.

Features a clear polycarbonate tube with numeric centimeter scale on the side and a 4.5 cm standard secchi disc design in the bottom of tube. Secchi disc is screwed to a rubber stopper which can be removed for easy cleaning. Drain hose with finger crimp allows sample to be drawn off until secchi pattern is visible. The 120 cm tube is also applicable for use in The GLOBE Program.

60 cm Tube 12 oz. **77107**

120 cm Tube 1.25 lbs. **77096**



WATER·MARK® Oceanographic Weighted Secchi Disc

5070

Constructed of white high density polyethylene, this 51 cm diameter disc comes with stainless steel hardware, built-in 5 lb. lead sounding weight, 20.0m nylon cord, and reel.

WaterMark Oceanographic Weighted Secchi Disc 10 lbs. **77915**



WATER·MARK® Limnological Weighted Secchi Disc

5075

Available in plain white or silk screened with black and white quadrants, these 20 cm diameter secchi discs are made of Sintra® PVC. **Unit includes:** stainless steel hardware and built-in 24 oz. zinc sounding weight.

Black/White 3.25 lbs. **77912** 5+

Polyester Solid Braided Line, 3/16" Dia., 100' 8 lbs. **77909**



Fieldmaster Student Secchi Disc

6717

Ideal for use in laboratory assignments dealing with water clarity. Perfect for any type of water, this 20 cm dia. limnological disc is constructed of heavy-duty ABS plastic with black and white quadrants on one side and solid white on the other. Includes built-in 1 lb. sounding weight and 20m of calibrated 1/8" nylon cord and instructions.

Fieldmaster Student Secchi Disc 2 lbs. **77179** 5+



LaMotte Sounding Weight & Calibrated Line

5076

Marked 0 to 20m in 1m increments, this heavy nylon line can be used with secchi discs to determine turbidity of water or with the accompanying 2 lb. lead sounding weight to test overall depths of ponds, lakes, rivers, etc. Line features a spring clip for quick attachments and is wound on a foam spool which doubles as a flotation device to prevent accidental loss of line if dropped overboard.

LaMotte Sounding Weight & Calibrated Line 3 lbs. **77140**