

Roamer

Wireless Data-Link for TriLux, UniLux & UviLux Fluorometers

APPLICATIONS

Roamer Wireless Data-Link gives the user freedom in the field to make high precision measurements anywhere, anytime.



Lux Fluorometer shown with the Roamer Wireless Data-Link transmitting data to a PDA.

FEATURES

Roamer Wireless Data-Link provides the CTG Lux fluorometers with power as well as acting as an interface to send and receive data over a Bluetooth wireless link to either a PDA or a PC for viewing and storage.

DESCRIPTION

Roamer Wireless Data-Link is designed to operate with CTG's new range of miniature fluorometers – the UniLux, TriLux and UviLux.

- The **UniLux** is a single parameter in-situ fluorometer which can detect one of Chlorophyll *a*, Phycocyanin, Phycoerythrin for algae monitoring and Rhodamine or fluorescein for dye tracing applications. Also available as a nephelometer (turbidity).
- The **TriLux** is a range of multi-wavelength digital fluorometers with combinations of Chlorophyll *a*, Phycoerythrin, Phycocyanin; Chlorophyll *a*, Turbidity, Phycoerythrin; and Chlorophyll *a*, Turbidity, Phycocyanin.
- The **UviLux** is an in-situ UV fluorometer that can be configured to monitor the concentration of refined polyaromatic hydrocarbons (365nm), crude hydrocarbons (450nm), Coloured Dissolved Organic Matter (CDOM) and Tryptophan.

Roamer Wireless Data-Link supplies the Lux fluorometers with power as well as acting as an interface to send and receive data over a Bluetooth wireless link to either a PDA (operating a CTG Windows Mobile application) or a PC (operating the Lux Graphical User Interface). When used in conjunction with a PDA, the software provided with Roamer Wireless Data-Link enables users to record and display (in either tabular or graphical form) Lux data. If a GPS enabled PDA is used, all data can be position stamped.

SPECIFICATION

Performance:

Battery Life: 7hrs
Battery recharge time: 1hrs. 12Vdc wall adapter provided to recharge battery.
Wireless Range: Up to 10m (50m within line of sight)

Mechanical:

Size: 145mm x 94mm x 26mm
Weight in air: 340g
Depth rating: IP65 (splash proof)
Connector: Power Jack

Electrical:

Input voltage: 9 to 12Vdc
Data output: Bluetooth Digital Stream
Power Requirements: <0.5 Watt @ 12 volt

Software:

PDA: Windows Mobile 6.1 application enabling recording and display of data to PDA
PC: Lux Graphical User Interface designed for Microsoft Windows XP and Vista.

REQUIREMENTS

Roamer (2176-032) is an accessory for CTG's Lux range of fluorometers. A cable is required to connect the Lux fluorometers to Roamer Wireless Data-Link. Communications from Roamer to a laptop or PDA is achieved with Bluetooth wireless connection.



Lux Cable (2176-023) – Connects Roamer or USB Dongle to Lux Fluorometer (terminated 5m)

A standard 5m cable is available to provide a connection between the UniLux/TriLux/UviLux fluorometers and the Roamer or USB dongle. This cable comprises a 600mm length of neoprene cable with moulded connector and locking sleeve for attachment to the UniLux/TriLux/UviLux fluorometers spliced to a thinner polyurethane clad cable with a connector suitable for both the Roamer and the USB Dongle. Cable lengths up to 25m can be supplied.

Personal Digital Assistant (PDA)

The PDA receives the UniLux/TriLux/UviLux data over Bluetooth and displays and logs it. CTG can supply the PDA complete with software, or if client wishes to use his own PDA/PC, the application software is provided. The client's own PDA needs to operate with Windows Mobile 6.1, have Bluetooth connectivity and a touch screen. The PC requires a Bluetooth connection and Windows XP/Vista.



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