

Engineering Note

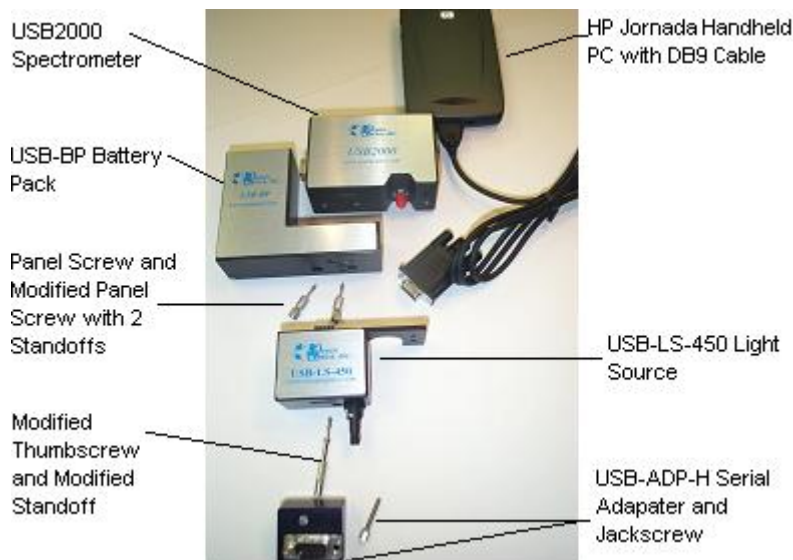
Topic: USB-ADP-H Serial Adapter Used with USB-BP Battery Pack
and/or USB LS-450 Light Source

Products Affected: HR2000, USB2000

Date Issued: 01/30/2002

Description

The USB-ADP-H Serial Adapter is to be used with the USB2000 or the HR2000 Spectrometer, the USB-BP battery pack, and/or the USB-LS-450 Light Source when interfacing with handheld PCs.



See the table below for included hardware and details on interfacing.

USB-ADP-H is used with . . .	This Hardware
USB-BP Battery Pack	Panel screw and modified panel screw with 2 standoffs
UBB-LS-450 Light Source	Modified thumb screw and modified standoff
USB-BP Battery Pack / UBB-LS-450 Light Source	Panel screw and modified panel screw with 2 standoffs, modified thumb screw and modified standoff.

Installation

When the USB2000 spectrometer is used with the USB Battery Pack, secure the spectrometer and the battery pack with one panel screw and one standoff on the left side, and one modified panel screw (4-40 tapped end) and one standoff on the right side.



When a USB-LS-450 Light Source is used, secure it with modified thumbscrew and modified standoff. Then, plug in the USB-ADP-H serial adapter 10-pin connector and secure it in place with the Jackscrew.

Plug in the Jornada DB9 cable into the DB9 on the USB-ADP-H serial adapter.

The S2000 spectrometer shown below assembled with USB Battery Pack, USB-LS-450 Light Source, USB-ADP-H serial adapter, and the Jornada Handheld PC.



Pinouts

USB-ADP-H DB9 Pin Out

Pin 2	RS232 Rx
Pin 3	RS232 Tx
Pin 5	Gnd
Pin 8	ExtTrigIn
Pin 9	AnalogOut

