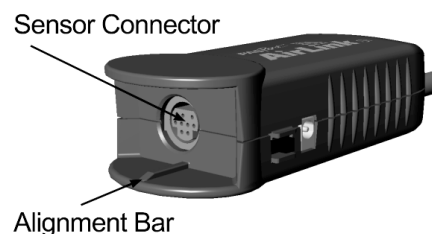


PASPORT AirLink SI (Sensor Interface)

PS-2005



Included Equipment	Part Number
AC Adapter	540-070
Antenna	540-002

Introduction

The PASPORT AirLink SI connects to Macintosh, Windows and palmOne handheld computers wirelessly through Bluetooth[™]. Your palmOne handheld computer must be Bluetooth equipped from the factory. However, if your Macintosh or Windows computer does not already offer Bluetooth capability, you may be able to add it by purchasing a Bluetooth accessory that connects through USB. The sensor interface uses rechargeable NiMH batteries.

Powering the PASPORT AirLink SI

The PASPORT AirLink SI is equipped with a 3.6 volt/850mA NiMH rechargeable battery. To charge the sensor interface use a power supply. (Specifications: 5 volt DC, 2.6 A, AC/DC direct plug-in switching power supply; Input: 100-240

Vac, 50-60 Hz, 0.6 A. Output: 5 Vdc, 2.6 A.) The power supply includes interchangeable AC input blades for use in different countries. Install the blades suitable for power outlets in your area.

Depending on the power demands of connected sensors and the sampling rate, the sensor interface will normally operate for a period of 8 hours between charges. When not in use, disconnect sensors and disconnect the sensor interface from the computer. This will lengthen the "shelf life" of a charge. Always ensure that you fully charge the sensor interface before using it for data collection in the field. As a matter of practice, it is a good idea to keep the interface charging until you need to use it.

Note: Charge for at least four hours prior to first use

Note: The rechargeable battery can not be replaced by the end-user. Please contact PASCO if you feel your battery is not charging properly.

Charging the PASPORT AirLink SI

The PASPORT AirLink SI contains rechargeable batteries and it is suggested that batteries have 4 hour charge prior to use.

Maximizing Battery Life

The following are some suggestions for maximizing battery life:

- Disconnect from the computer between data collection episodes;
- Turn off the sensor interface when not in use;
- Unplug the sensor when not performing measurements;
- Use slow sample rates for long experiments.

Status LEDs PASPORT AirLink SI

The PASPORT AirLink SI includes a pair of LEDs that will flash and change color to indicate various states of the sensor interface. Please refer to Table 1 below.

	Blinking	Solid
Green	Charging	Fully charged
Amber	Slow: on, not connected Faster: on, connected	On, connected, collecting
Red	Low power	Very low power

Table 1: Status LEDs

Connecting the PASPORT AirLink SI to a Computer or Handheld Device

Because the sensor interface communicates with the computer wirelessly, you do not make a physical connection. Instead, you make the connection in software. You can connect to only one interface at a time. Once you connect to an interface, no one else can access that interface. Depending on the environment, the sensor interface must remain within 30 feet (10 meters) of an intended computer.

To connect to the PASPORT AirLink SI:

1. Power on the interface - the amber light will slowly blink when the unit is turned on.
2. See the Data Studio or ImagiProbe® manual for directions on establishing a wireless connection to the interface. Once a connection has been made the amber light will blink more quickly

Note: Each PASPORT AirLink SI has a unique ID (e.g., IPSI-40381), which is printed on a label on the bottom of the interface. Use this ID to select the correct interface when connecting.

Connecting PASPORT Sensors

PASPORT digital sensors automatically register as part of the DataStudio and ImagiProbe applications. This registration procedure will temporarily install calibrations and propose an initial sampling rate for the connected sensor(s).

If you are using analog sensors with the optional analog adapter, you may need to install calibrations appropriate for the sensors you wish to use. If you are using the sensor interface with a palmOne handheld computer, you can select sensors and calibrations from a sensor database provided on the installation CD. Install these sensors and calibrations using a standard HotSync procedure.

Plugging in a Sensor

1. Align the notch on the PASPORT AirLink SI with the groove on the sensor or sensor plug.
2. Orient the pins on the mini DIN connector of the PASPORT sensor to the holes on the sensor interface.
3. Plug the sensor into the mini DIN receptacle on the top of the sensor interface

Troubleshooting

Problem	Solution
Sensor interface drops connection	You may be out of range. Move the computer closer to the sensor interface and try to reconnect.
Software does not see sensor interface	1. Check interface is powered on; 2. Confirm interface is within range; 3. Make sure interface isn't already connected to another computer (see Status LEDs table).
Software does not see sensor attached to sensor interface	1. Confirm you are connected to sensor interface; 2. Make sure sensor is firmly connected to sensor interface; 3. Turn interface off and back on. (you will need to reconnect).
LED is stuck on	Turn the sensor interface off and back on.

For assistance with any PASCO product, contact PASCO at:

Address: PASCO scientific
10101 Foothills Blvd.
Roseville, CA 95747-7100

Phone: 916-786-3800 (worldwide)
800-772-8700 (U.S.)

Fax: (916) 786-3292

Web: www.pasco.com

Email: support@pasco.com

Communications Regulation Information

The PASPORT AirLink SI (PS-2005) complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) The sensor interfaces may not cause harmful interference, and (2) the sensor interfaces must accept any interference received, including interference that may cause undesired operation. See instructions below if interference to radio and television reception is suspected.

IMPORTANT NOTE:

To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. .

PASPORT AirLink SI

PS-2005



**Tested To
Comply With
FCC Standards**

FOR HOME OR OFFICE USE

Specifications

Compatibility	Windows, Macintosh, and Palm-Powered handheld computers with Bluetooth support
Wireless Range	10 meters
Sampling Rate	up to 1KHz (varies by software application and sensor)
Battery	4 hours to fully charge; 8 hours collection per charge

Technical Support

Before you call PASCO technical support, have the apparatus and this user's guide available. Please note the following:

- DataStudio/ImagiProbe version;
- Product name and model number;
- Approximate age of the product;
- Detailed description of the problem/sequence of events required to duplicate the problem.

Radio and Television Interference

The equipment described in this manual generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly-that is, in strict accordance with instructions from PASCO scientific-it may cause interference with radio and television reception.

The sensor interfaces have been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of the FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether the sensor interface is causing interference by disconnecting it from the computer. If the interference stops, it was probably caused by the sensor interface.

If the sensor interface does cause interference to radio or television reception, try to correct the interference by using one or more of the following remedies:

- Turn the television or radio antenna until the interference stops;
- Move the sensor interface to one side or the other of the television or radio;
- Move the sensor interface further from the television or radio.

If these remedies do not correct the problem, consult with an experienced radio or television technician for additional suggestions.

Important: Changes or modifications to the sensor interface not authorized by PASCO scientific. could void the FCC Certification and negate your authority to operate the product. Responsible party (FCC matters

only): David Stogner, PASCO scientific, 10101 Foothills Blvd., Roseville, CA, USA, 95747-7100.

High Risk Activities Warning

Connect only approved sensors to the sensor interface. Connecting unapproved devices could void your warranty or result in shock or injury. Be sure to follow the sensor manufacturer's usage guidelines.

Limited Warranty

PASCO scientific warrants the product to be free from defects in materials and workmanship for a period of one year from the date of shipment to the customer. PASCO will repair or replace, at its option, any part of the product, which is deemed to be defective in material or workmanship. The warranty does not cover damage to the product caused by abuse or improper use. Determination of whether a product failure is the result of a manufacturing defect or improper use by the customer shall be made solely by PASCO scientific. Responsibility for the return of equipment for warranty repair belongs to the customer. Equipment must be properly packed to prevent damage and shipped postage or freight prepaid. (Damaged caused by improper packing of the equipment for return shipment will not

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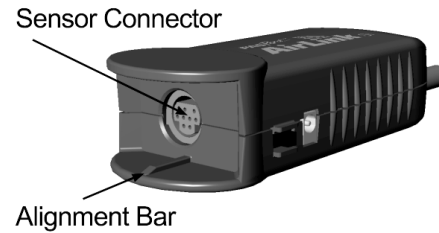
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