

Introduction



SASS[®] 3100 Dry Air Sampler System

An advanced bulk filter air sampler developed for the collection of airborne particulates, especially pathogenic bacteria and spores.

Setting Up the System



System Switch and Connections

- Operations Switch:**
- ON
 - RS-232
 - OFF

Power indicator

External power connection



Fan indicator

RS-232 connection

Mounted on Tripod

- The instrument is equipped with two ¼-20 camera style mounting bosses. One is located at the center point of the carrying handle, while there is a second one on the base near the battery door hinges. These bosses allow the unit to be mounted on a tripod or other support device equipped with a ¼-20 bolt.





Operating the Sampler



Wall Power

- ***Mains Power Operation***
 - The lump-in-cord is connected via the power connector located at the bottom of the connector panel. Insert the keyed connector from the power supply and turn the external sleeve clockwise to lock.

**External
power
connection**





Using the SASS 3100

Install Battery

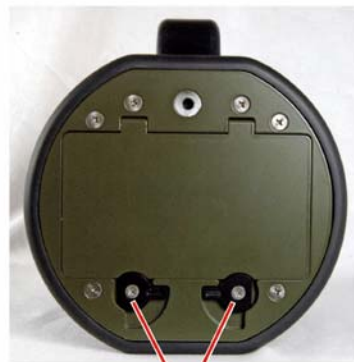
Three batteries are acceptable for use:

- Saft BA-5590/U primary battery (or equivalent)
- Ultralife BA-5390A/U long life primary battery
- Ultralife UBI-2590 Lithium Ion rechargeable battery.



Install Battery

- Open the battery door located on the bottom of the instrument by rotating the two door latches so that the door is free to open. Open the door.
- Align the battery terminal with the connector at the bottom of the compartment with the mating connector on the battery.
- Gently slide the battery into the compartment.
- Close the door and rotate the latches to the locking position.



Battery door locks



Battery
power connector



Battery



Operating in Manual Mode

- Mount a filter cartridge. Press the cartridge firmly onto the annular boss on the top of the fan shell, seating it at all circumferential positions. The alignment tab on the filter ring can be located at any clock position.
- Move the operations switch handle left to the **ON** position. The fan will turn on. At the end of the collection period, turn the operations switch to **OFF**. Remove the filter from the instrument and it is ready for another sample run.



SASS 3100 Control Program Software



System Requirements

- Supported Operating Systems: Windows Server 2003; Windows Server 2008; Windows Vista; Windows XP
- Processor: 400 MHz Pentium processor or equivalent (Minimum); 1GHz Pentium processor or equivalent (Recommended)
- RAM:96 MB (Minimum); 256 MB (Recommended)
- Hard Disk: 1.2 MB of available space
- CD Drive: Required
- Display: 800 x 600, 256 colors (Minimum); 1024 x 768 high color, 32-bit (Recommended)



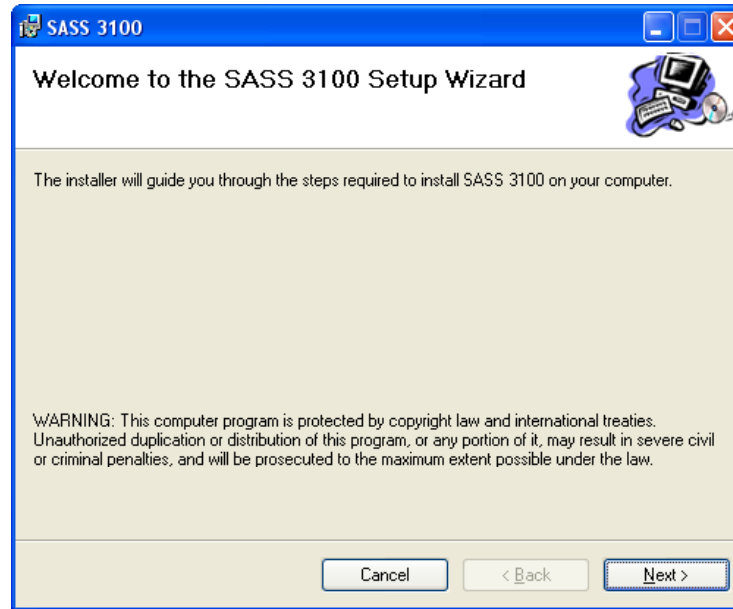
System Requirements



- If your computer does not have the .NET Framework 3.5 installed on it yet, instead of seeing the Welcome dialog box you will be prompted to upgrade your operating system by installing the .NET Framework 3.5. This is necessary for the SASS 3100 Windows program to run. This will require an Internet connection and some time. Unlike the SASS 3100 Windows program, the .NET Framework 3.5 can take several minutes to install depending on the speed of your system and requires up to 500 MB of free hard disk space.



Software Installation



- Insert the CD-ROM in the computer. The installation program should automatically start up and the Windows Welcome dialog box shown in the figure should appear.
- Follow the installation instructions as given.



Main User Interface



- Software operation and settings will be found in the SASS 3100 Instruction Manual which comes with the unit.



Research International, Inc.

17161 Beaton Road SE

Monroe, WA 98272-1034

Phone: 360-805-4930 • Toll Free: 800-927-7831

Web: www.resrchintl.com • Email: info@resrchintl.com