Quick Start Guide

APS2, APS3, APSR, APSRQ Airborne Particle Sensor

Caution: CyberOptics Corporation has made every effort to clean the APS and Charging Case. Removing it from its protective bag outside of a clean room will expose it to the surrounding air. If you plan to use the APS in an ultra clean environment, you may have to clean the wafer after removing it from its clean case.

In all documentation, “APS” refers to APS2, APS3, APSR, and APSRQ Units.

Suitcase Contents

- APS unit
- Charging Case
- APS Link and USB Cable
- Battery Charger (and install CD)

Particle Counting Unit
The APS2 WaferSense® unit (150mm, 200mm, 300mm), APS3 WaferSense unit (300mm), APSR and APSRQ ReticleSense® unit, is vacuum compatible and designed for use in operating pressures of 0.4 to 1.6 atmospheres.

Charging Case
The Charging Case provides a convenient place to store and protect the unit when not in use, and provides wireless charging and hands free operation.

APS Link & USB cable
The link is a Bluetooth® wireless transmitter/receiver that attaches to a laptop or personal computer with a USB cable and communicates with the wafer.

Battery Charger
The battery charger is used for recharging the APS Li-Ion battery.

Installation CD (not shown)
CD contains the CyberSpectrum™ Application, Users Manual and wireless link device driver. For full detail on APS operation, please refer to the CyberSpectrum for Particle Sensors Users Manual which installs during installation.

Additional Information on Taiwan Labeling
低功率電波輻射性電機管理辦法
第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。
前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。
1. **Charge the Battery**
The Li-Ion battery must be fully charged before first use. A discharged battery can take several hours to charge. Connect the battery charger to the charging case. Plug the charger into a 100-240VAC outlet. The “Charger On” and “Charging” status lights will remain on while the unit is charging. When the “Charging” light goes off, the battery is fully charged.

**Warning:**
- Use Only Supplied Battery Charger to charge the Unit
- Do Not Attempt to Charge the Unit at Temperatures Above 45C
- Do Not Connect Other Equipment Than the Supplied Battery Charger

2. **Install CyberSpectrum™ Software**
To run the CyberSpectrum software, your computer must have Windows 7, 8, or 10 operating system.

To Install the APS software:
1. Insert the CyberSpectrum Installation CD into the CD Drive and run Setup. **Note:** DO NOT install the Link hardware at this time.
2. Follow the instructions provided by Setup to install the software.

By default, the Setup program installs the CyberSpectrum application in a new program group called CyberOptics. Additional information can be found on the User’s Guide installed at the same time.

3. **Install Wireless Link Hardware**
The CyberSpectrum software must be installed prior to connecting and installing the APS Link. To install the wireless link:
1. Connect the Link module to a high power USB port with included USB cable.
2. Windows recognizes the link module hardware and the “Found New Hardware” wizard will appear. Select “Install the software automatically (Recommended)”, if prompted.
3. If there is a message that the software “has not passed Windows Logo testing” click “continue anyway.” The device driver is now installed and the Power light on the link module turns on indicating that the module is getting power from the USB port.

4. **Turn ON and OFF**
To turn on the APS unit, insert the device in the charger and apply power to the charger. The “Unit On” LED will come on along with other indicator LEDs. Once the unit is in communication with the Link, the Pair Status and Connection Status LEDs on the link will be on without blinking. The “Connect/Pair” LED on the unit will be on without blinking. This may take a few seconds after the unit is turned on. To turn the APS unit off, run CyberSpectrum, and select “Shutdown” on the main screen.

5. **Run CyberSpectrum™**
Run the application by navigating to Start menu > Programs > CyberOptics > CyberSpectrum. It will take a few seconds to begin receiving updates from the APS unit. Note that when the APS is first turned on it is in a standby state and only counts particles when Start is selected. Full details are contained in the User Manual that can be accessed via the CyberSpectrum About Menu.