User's Manual SPH10 Manager

V1.0

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Notice to Users

Proper back-up systems and necessary safety devices should be utilized to protect against injury, death or property damage due to system failure. Such protection is the responsibility of the user. This device is not approved for use as a life-support or medical system.

Any changes or modifications made to this device without the explicit approval or consent of Sena Technologies will void Sena Technologies of any liability or responsibility of injury or loss caused by any malfunction.

Technical Support

3150 Almaden Exselectway, Suite 238
San Jose, CA 95118
United States
Toll Free (US/Canada): 8668-US-SENA (866-887-7362)
Main: 408-448-1997
Fax: 408-907-3738
E-Mail: support@senabluetooth.com
Website: http://www.senabluetooth.com
Facebook: http://www.facebook.com/senabluetooth

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1. Software Installation

Please note that all software installation should be running with **administrator** privilege of your computer.

1.1. Windows XP

Step 1. Power off the SPH10.

Note:

Do not connect the SPH10 to your computer until software installation is completed.

Step 2. Run the setup program, *sph10manager-v1.0-setup.exe*, and then SPH10 Manager setup window will be started as follows.



Figure 1-1 Welcome Message

Step 3. Click "Next" button and then specify the destination location of program.

| 5 SPH10 Manager 1.0 Setup |
|---|
| Choose Install Location |
| Choose the folder in which to install SPH10 Manager 1.0. |
| Setup will install SPH10 Manager 1.0 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation. |
| Destination Folder |
| C: \Program Files \Sena Technologies \SPH10 Manager \Browse |
| Space required: 11.5MB |
| Space available: 91.4GB |
| Nullsoft Install System v2.46 |
| < <u>B</u> ack Install Cancel |

Figure 1-2 Choose the destination location of program

Step 4. Click "Install" button after choosing destination location of the program and then installation will be started.

| orniu manager i.u oetup | | |
|---|--|-------|
| nstalling Please wait while SPH10 Manager 1.0 is t | being installed. | E |
| Extract: user32.dll 100% | | |
| | | |
| Create folder: C:\#Program Files\#Sen Create folder: C:\#Program Files\#Sen Create folder: C:\#Program Files\#Sen Create folder: C:\#Documents and Set Create shortcut: C:\#Documents and S Create shortcut: C:\#Documents and S Create shortcut: C:\#Documents and S Output folder: C:\#Program Files\#Sen Extract: SPH10 Manager.exe 100% Extract: mfc42.dl 100% | a Technologies₩SPH10 Manager₩IMG a Technologies₩SPH10 Manager₩Microsoft.V a Technologies₩SPH10 Manager₩Microsoft.V tings₩연구소333₩시작 메뉴₩프로그램₩ jettings₩연구소333₩시작 메뉴₩프로그램 jettings₩연구소333₩시작 메뉴₩프로그램 jettings₩연구소333₩사장 회유₩프로그램 jettings₩연구소333₩사장 회유₩프로그램 jettings₩연구소333₩사장 회유₩프로그램 jettings₩연구소333₩사장 회유₩ | |
| Extract: msvcrt.dll 100% | | 1.000 |

Figure 1-3 Program Installation

This process may take a few minutes according to the performance of your computer. Please wait until final completing message is displayed.

| 5 SPH10 Manager 1.0 | Setup |
|---------------------|---|
| | Completing the SPH10 Manager 1.0 Setup Wizard SPH10 Manager 1.0 has been installed on your computer. Click Finish to close this wizard. Run SPH10 Manager 1.0 |
| | < Back Finish Cancel |

Figure 1-4 Complete message

Step 5. Click "Finish" button to complete the installation, then SPH10 Manager will be started automatically.

Please refer to Chapter 2 to learn how to use SPH10 manager.

1.2. Windows Vista or Windows 7

Step 1. Power off the SPH10.

Note:

Do not connect the SPH10 to your computer.

Step 2. Run the setup program, *sph10manager-v1.0-setup.exe*, then SPH10 Manager Setup window will be started as follows. In case that you have 64-bit OS, please run different set-up program, *sph10manager-V1.0-setup_x64.exe*.

Note:

A warning message on *User Account Control* windows may be popped up. Please select "Allow" or select "Yes" button to proceed to the installation of SPH10 Manager.



Figure 1-5 Welcome Message

Step 3. Click "Next" button and then specify the destination location of program.

| SPHID Manager I.U Setup | |
|---|--|
| Choose Install Location | - |
| Choose the folder in which to insta | all SPH10 Manager 1.0. |
| Setup will install SPH10 Manager 1. Browse and select another folder. | .0 in the following folder. To install in a different folder, dick Click Install to start the installation. |
| Destination Folder | |
| C;₩Program Files₩Sena Tech | nnologies\WSPH10 Manager Browse |
| | |
| Space required: 11.5MB | |
| Space required: 11.5MB Space available: 116.8GB | |
| Space required: 11.5MB Space available: 116.8GB Nullsoft Install System v2.46 | |
| Space required: 11.5MB Space available: 116.8GB Nullsoft Install System v2.46 | |

Figure 1-6 Choose the destination location of program

Step 4. Click "Install" button after choosing destination location of the program and then installation will be started.

| ſ | SPH10 Manager 1.0 Setup |
|----------------------------|---|
| 4 | Installing Please wait while SPH 10 Manager 1.0 is being installed. |
| | Execute: C:₩Program Files₩Sena Technologies₩SPH10 Manager₩UsbCheck1.exe |
| Please (Devic If you | e connect SPH10 to install driver. e should be turned on after connecting to your computer.) want to install SPH10 Manager without installing driver, Press [Cancel] button. |
| | Extract: Microsoft.VC80.MFC.manifest 100% Extract: Microsoft.VC80.MFC.manifest 100% Execute: C:\Program Files\Sena Technologies\SPH 10 Manager\UsbCheck1.exe Nullsoft Install System v2.46 < Back Next > Cancel |

Figure 1-7 Program Installation

Step 5. A message window will pop up to guide you to connect the SPH10 to the computer. <u>Please</u> hook up the SPH10 with your computer by using USB cable and then turn it on by selecting "Phone button" and "Jog Dial" together.

Note:

Please do not select "Cancel" button if it is the first time installation on your computer.

Step 6. A message box will disappear after 10 seconds, and it means the SPH10 is found successfully in the installation.



Figure 1-8 SPH10 is found

Step 7. Device Driver Installation Wizard will be started, then. Select "Next" button to proceed to the installation process of device driver.

| Device Driver Installation Wiza | ard |
|---------------------------------|--|
| | Welcome to the Device Driver Installation Wizard! This wizard helps you install the software drivers that some computers devices need in order to work. |
| | To continue, click Next. < Back Next > Cancel |

Figure 1-9 Device Driver Installation Wizard is started

Step 8. It may take up to 10 minutes to lead you the next step. Please wait until you can see the next message window.

| Device Driver Installation Wizard | |
|-----------------------------------|--|
| The drivers are now installing | |
| Please wait while the drivers i | nstall. This may take some time to complete. |
| | < Back Next > Cancel |

Figure 1-10 Device Driver is in installation

Step 9. Select "Finish" button to complete the installation to go to the final stage of the installation.

| Device Driver Installation Wiza | rd | |
|---------------------------------|--|---------------------------|
| | Completing the De Installation Wizard | evice Driver d |
| | The drivers were successfully in | stalled on this computer. |
| | Driver Name | Status |
| Transa and | Cambridge Silicon Radio | Device Updated |
| | < Back | Finish Cancel |

Figure 1-11 Completing the Device Driver Installation

Step 10. Final Installation message will be popped up. Select "Finish" button, and then SPH10 Manager will be started automatically.



Figure 1-6 Completing Setup Wizard

Please see the section 3 to learn how to use SPH10 manager.

Troubleshooting for failure in Device Driver Installation

If you see the error message on device driver installation failure, please follow the steps below to do troubleshooting.



Figure 1-7 Cannot complete the Device Driver Installation

- 1. Select "Finish" button and close SPH10 manager setup windows.
- 2. Uncheck the "Run SPH10 Manager 1.0" checkbox in the next pop-up window and then select "Finish" button.



Figure 1-8 Completing Setup Wizard

3. Restart your computer system.

Note:

Please make sure that SPH10 remains connected to your computer with keeping poweron status.

- 4. After your computer is restarted, please go to the menu, of SPH10 Manager program, by moving to *Start Menu -> All Programs -> Sena Technologies -> SPH10 Manager*.
- 5. Select "Install Driver" in the SPH10 menu.



Figure 1-9 Run Install Driver manually

Device Driver Installation Wizard will be started again. Please repeat the steps from Step
 6 to Step 10 to complete the installation.

2. Getting Started

2.1. Starting SPH10 Manager

Step 1. When you start SPH10 Manager, message box will be popped up as follows,

| | x |
|---|---|
| | |
| 1. Please disconnect all the Bluetooth devices from the PC. | |
| 2. Power off the SPH10 and connect to the PC with the USB cable. The LED turns on red. | |
| 3. To power on the SPH10, press the Jog Dial and Phone Button simultaneously until the LED turns on blue. | |
| 4. Press [OK] button. | |
| ОК | |
| | |

Figure 2-1 Start-up Instruction

Step 2. Please follow the steps on the message box and then click "OK" button.

Note: [Windows XP]

The further driver installation is required and it will be running automatically. Please look into the Windows task bar until the installation is completed. And, then select "OK" button if the process is completed.

Step 3. Then SPH10 Manger will display the firmware version of your SPH10 automatically. You may find the message, "SPH10 is connected with computer" if the program is successfully connected to the SPH10.



Figure 2-2 SPH10 is connected

If you fail to connect the SPH10, please close SPH10 Manager and restart it again.

| F/W UPDATE | |
|-----------------|--|
| F/W RESTORE | |
| DEVICE SETTINGS | |
| | |

Figure 2-3 SPH10 is not connected

2.2. Updating Firmware

Step 1. To update firmware of your SPH10, select "F/W Update" Button.

SPH10 Manager will automatically check the newest firmware on the management server. Please be sure to connect your computer to the Internet. If there is a newer version firmware on the server following message will be displayed.

| | | SPH10 Ver. 3.2 |
|-----------|--|-------------------|
| | New firmware is now available. | |
| F/W UP | Would you like to download it from the server? | 1445 |
| F/W RES | CURRENT VERSION: v3.2 NEW VERSION: v3.3 | |
| DEVICE SE | Yes | |

Figure 2-4 New firmware is available

Step 2. Select "Yes" button and then select firmware download location on your computer.



Figure 2-5 Save New firmware

Step 3. After selecting download location and then select "Save" button.

Then new firmware will be downloaded from server and progress bar will be displayed as follows.

Figure 2-6 Firmware Downloading progress bar

Step 4. If new firmware download is completed, "Update" button will be displayed as follows. Select "Update" button to proceed to the next stage of firmware update.

| SENA | SPH10 Ver. 3.2 |
|-----------------|------------------------|
| F/W UPDATE | F/W UPDATE |
| F/W RESTORE | 0 % |
| DEVICE SETTINGS | UPDATE |
| | Press [UPDATE] Button. |

Figure 2-7 Select Update button

Step 5. A yellow-colored message box will be popped up. Please press the "Phone" button of SPH10 and hold it awhile until the message disappears.

| | SPH Ver. |
|--------------------|--|
| F/W UPDATE | F/W UPDATE |
| | |
| Please press and h | old Phone Button until this message disappea |
| DEVICE SETTINGS | |

Figure 2-8 Press Phone button message

Step 6. Firmware is to be updated into the SPH10. During the process, please look into the message display of the program in order to check the progress. SPH10 Manager will first back up the firmware from the SPH10, and then write the new one to the device.

| DEIVA | | ٢ | SPH10 Ver. 3. |
|-----------------|-------------|--------|------------------|
| F/W UPDATE | F/W UPDAT | Ē | |
| F/W RESTORE | | 8 % | |
| DEVICE SETTINGS | | UPDATE | |
| | *Pook up to | | |

Figure 2-9 Firmware Back up process



Figure 2-10 Firmware Writing process

Note:

When the progress is reached 99%, the process may look halted about 10 seconds. This is normal operation for checking firmware on the SPH10.

Step 7. A yellow-colored message box will be popped up again. Please press "Phone button" and "Jog Dial" together until the message disappears.

| | SENA | SPH10 Ver. 3.2 | |
|-------|-----------------|---------------------------|--|
| Pleas | F/W UPDATE | F/W_UPDATE | |
| | DEVICE SETTINGS | UPDATE | |
| | | Writing firmware to SPH10 | |

Figure 2-11 Press Phone button and Jog Dial message

Step 8. Firmware Update is completed and the current firmware version will be displayed on the program window.

| | J | Ver. 3. |
|-----------------|----------------------|---------|
| F/W UPDATE | successfully updated | |
| F/W RESTORE | OK | |
| DEVICE SETTINGS | UPDATE | |
| 672 | | |

Figure 2-12 Update is completed

2.3. Restore Firmware

Step 1. To restore the SPH10 firmware to the original, select "F/W RESTORE" button. A message will show you the information of the firmware which is stored as a back-up.

Note:

Firmware restore function is available only in the computer where SPH10 had been updated. You need to use the same computer o firmware update when you restore it.

| | SPH10 Ver. 3.3 |
|-----------------|--|
| F/W UPDATE | Backup firmware information |
| | Version: v3.2 |
| F/W RESTORE | Date: December 26 ,2011 14:50:45 Intercom VOX: Disabled |
| | Handsfree VOX: Disabled |
| DEVICE SETTINGS | EDR(Enhanced Date Rate): Enabled |
| | RESTORE |
| | Eirmuara is restored from the backup |

Figure 2-13 Firmware Back up Information

Step 2. Select "RESTORE" button to proceed and then yellow-colored message will pop up. Press "Phone" button of SPH10 until the message disappears. Then, firmware restore process will be started.

| SENA | SPH10 Ver. 3.3 |
|-----------------|--------------------------------------|
| F/W UPDATE | F/W RESTORE |
| F/W RESTORE | 0% |
| DEVICE SETTINGS | |
| | Restoring the old firmware to SPH10. |

Figure 2-14 Restoring firmware

| 5ENA | SPH10 Ver. 3. |
|---------------------|---|
| F/W UPDATE | F/W RESTORE |
| Please press and ho | ld Phone Button until this message disappears |
| | |

Figure 2-15 Press Phone button message



Figure 2-16 Firmware Restoring progress bar

Note:

When the progress is reached 99%, the process may look halted about 10 seconds. This is normal operation for checking firmware on the SPH10.

Step 3. After the process is completed, a message box will pop up again. Press "Phone button" and "Jog Dial" together until the message disappears.

| | SENA | SPH10 Ver. 3.3 | × | |
|------|-----------------|---|-----|--|
| Plea | F/W UPDATE | F/W_RESTORE al and Phone Button until this message disappe | ars | |
| | DEVICE SETTINGS | Writing firmware to SPH10 | - | |

Figure 2-17 Press Phone button and Jog Dial message

Step 5. Then firmware restore is completed and the current firmware version will be displayed on the program window.

| | | ver. 3. |
|----------------|--------------------------------|---------|
| F/W UPDATI | SPH10 is successfully restored | |
| F/W RESTOR | OK | - |
| DEVICE SETTING | S | |

Figure 2-18 Firmware Restore is completed

2.4. Update Firmware from specific file

Step 1. To update the firmware of your SPH10 using the firmware stored on your computer, select "F/W UPDATE" Button.

| SENA | SPH10 Ver. 3.2 |
|-----------------|------------------------|
| F/W UPDATE | F/W SELECT |
| F/W RESTORE | |
| DEVICE SETTINGS | SELECT |
| | Press (SELECT) Button. |

Figure 2-19 Update firmware

Step 2. Select "SELECT" button to open selection window, and then choose a firmware to be updated for your SPH10.



Figure 2-20 Open firmware

Step 3. Select "UPDATE" button to proceed.

| SENA | SP Ve | H10 er. 3.2 |
|-----------------|------------------------|----------------|
| F/W UPDATE | F/W UPDATE | |
| F/W RESTORE | | |
| DEVICE SETTINGS | UPDATE | |
| | Press [UPDATE] Button. | |

Figure 2-21 Select update button

| SENA | SPH10 Ver. 3.3 |
|-----------------|------------------------|
| F/W UPDATE | F/W UPDATE |
| F/W RESTORE | 0% |
| DEVICE SETTINGS | UPDATE |
| | Press IUPDATE1 Button. |

Figure 2-22 Progress bar in Firmware Update

Step 4. A yellow-colored message box will be popped up. Please press the "Phone" button of SPH10 and hold it awhile until the message disappears, and then the process will be continued.

| SENA | SPH10 Ver. 3.2 |
|---------------------|--|
| F/W UPDATE | F/W UPDATE |
| Please press and ho | ld Phone Button until this message disappears. |
| DEVICE SETTINGS | UPDATE |
| | |

Figure 2-23 Press Phone button message

Step 5. Press "Phone button" and "Jog Dial" together until the message disappears.

| | SENA | SPH10 Ver. 3.2 | 3 |
|------|---------------------------|--|---|
| | F/W UPDATE | F/W UPDATE | |
| Plea | ase press and hold Jog Di | al and Phone Button until this message disappear | S |
| | DEVICE SETTINGS | UPDATE | |
| | | Writing firmware to SPH10 | |

Figure 2-24 Press Phone button and Jog Dial message

Step 6. Firmware update is completed and the current firmware version will be displayed on the program window.

| success | fully undated | 4 | |
|---------|---------------|----------------------|-----------------------|
| ОК | | | |
| | UPDATE | | |
| | SUCCESS | Successfully updated | Successfully updated. |

Figure 2-25 Updating is completed

2.5. Device Settings

You can set up some parameters of your SPH10 by using "DEVICE SETTINGS" menu.

| SENA | | SPH10 Ver. 3.3 |
|-----------------|---------------------------|-------------------|
| F/W UPDATE | Intercom VOX | Disable |
| | Handsfree VOX 💿 Enable | Oisable |
| r/w nestone | EDR | Disable |
| DEVICE SETTINGS | | |
| | SAVE | CANCEL |
| | Set up the Device Configu | ration |

Figure 2-26 Device settings

Please note that changing device settings is supported from firmware version 3.2. Please update your firmware first to set up the parameters.

| JEIVA | | SPH10 Ver. 3. |
|-----------------|---|------------------|
| F/W UPDATE | Intercom VOX Enable | Disable |
| EAN RESTORE | Handsfree VOX 💿 Enable | Oisable |
| 1/W RESTORE | EDR Enable | 💿 Disable |
| DEVICE SETTINGS | | |
| | SAVE | CANCEL |
| DEVICE SETTINGS | SAVE | CANCEL |

Figure 2-27 changing device settings

After changing settings, select "SAVE" button to save the changes to SPH10.

| | | | SPH10 Ver. 3. |
|---|---|--|---|
| W | ould you like to solute : Changes w OK | save the changes ill be applied after | ; ? r the device restarts. Cancel |
| D | | SAVE | CANCEL |

Figure 2-28 Confirm save chnages

Note:

Change of device settings is effective only after SPH10 is restarted.

2.6. Checking version of SPH10 Manager

In order to check the software version of *SPH10 Manager*, click [?] button on the upper-left corner of the *SPH10 Manager* program.

| S | | SPH10 Ver. 3.3 |
|-------|--|-------------------|
| 5 | SPH10 Manager Version 1.0 Copyright (C) 2011 SENA Technolog | OK ies, Inc. |
| PETIO | Set up the Device Co | CANCEL |

Figure 2-29 Check the version of SPH10 Manager