## User's Manual SMH10 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.

Website: http://www.senabluetooth.de/download.html

## **Table of Contents**

1. Software Installation	4
1.1. Windows XP	4
1.2. Windows Vista or Windows 7	7
2. Getting Started	15
2.1. Starting SMH10 Manager	15
2.2. Updating Firmware	17
2.3. Restore Firmware	21
2.4. Update Firmware from specific file	25
2.5. Device Settings	28
2.6. Checking version of SMH10 Manager	30

## 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 SMH10.

#### Note:

Do not connect the SMH10 to your computer until software installation is completed.

**Step 2**. Run the setup program, *smh10manager-v1.0-setup.exe*, and then SMH10 Manager setup window will be started as follows.

SMH10 Manager 1.0 Set	ир 🗖 🗖 🔀
	Welcome to the SMH10 Manager 1.0 Setup Wizard This wizard will guide you through the installation of SMH10 Manager 1.0. It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer. Click Next to continue.
	Next > Cancel

Figure 1-1 Welcome Message

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

5 SMH10 Manager 1.0 Setup
Choose Install Location Choose the folder in which to install SMH10 Manager 1.0.
Setup will install SMH10 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.
C:\Program Files\Sena Technologies\SMH10 Manager Browse Space required: 11.5MB Space available: 143.2GB Nullsoft Install System v2.46
< Back 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.

SMH10 Manager 1.0 Setup		
Installing Please wait while SMH10 Manager 1.0 is bei	ng installed.	5
Execute: RUNDLL32.EXE SETUPAPI.DLL, Ins	stallHinfSection CSRBC.Inst.NT>	(86.5.1 132 C:\Pro
Extract: msvcm80.dll 100% Extract: msvcp80.dll 100% Extract: msvcp80.dll 100% Extract: Microsoft.VC80.CRT.manifest 1 Output folder: C:\Program Files\Sena Tech Extract: mfc80.dll 100% Extract: mfc80u.dll 100% Extract: mfcm80u.dll 100% Extract: mfcm80u.dll 100% Extract: Microsoft.VC80.MFC.manifest Execute: C:\Program Files\Sena Technolog Execute: RUNDLL32.EXE SETUPAPI.DLL, I	100% hnologies\SMH10 Manager\Micro 100% gies\SMH10 Manager\UsbCheck nstallHinfSection CSRBC.Inst.N	2.exe Tx86.5.1 13

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.



Figure 1-4 Complete message

**Step 5.** Click "Finish" button to complete the installation, then SMH10 Manager will be started automatically.

Please refer to Chapter 2 to learn how to use SMH10 manager.

## 1.2. Windows Vista or Windows 7

**Step 1**. Power off the SMH10.

#### Note:

Do not connect the SMH10 to your computer.

**Step 2**. Run the setup program, *smh10manager-v1.0-setup.exe*, then SMH10 Manager Setup window will be started as follows. In case that you have 64-bit OS, please run different set-up program, *smh10manager-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 SMH10 Manager.



Figure 1-5 Welcome Message

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

SMH10 Manager 1.0 Setup	
Choose Install Location	
Choose the folder in which to install SMH10 Manager 1.0.	5
Setup will install SMH10 Manager 1.0 in the following folder. To install in dick Browse and select another folder. Click Install to start the installation	a different folder, m.
Destination Folder	Proven
C: Program Hies Sena Technologies (SMH1U Manager	browse
Soare required: 11 SMR	
Space available: 161.9GB	
Nullsoft Install System v2.46	
< Back Insta	all Cancel

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.

Please	9 wait while SMH10 Mar	nager 1.0 is be	ing installed.		5
Execute	: C:\Program Files\Se	ena Technologi	es\SMH10 Manage	er\UsbCheck1.	exe
ease co	onnect SMH10	Headset	to install dri	ver.	
MH10 you wa	should be turn nt to install SM	ed on afte IH10 Man	er connecting ager without	to your co	omputer.) ver, Click Cano
MH10 you wa	should be turn nt to install SM	ed on afte IH10 Mana	er connecting ager without Cancel	) to your co install driv	omputer.) ver, Click Cano
MH10 you wa	should be turn nt to install SM	ed on afte	er connecting ager without Cancel	) to your co install driv	omputer.) rer, Click Cano
Extra Execu	should be turn nt to install SM :t: Microsoft.VC80.Mf te: C:\Program Files\	ed on afte IH10 Mana C FC.manifest Sena Technolo	er connecting ager without Cancel	) to your co install driv ger\UsbCheck1	omputer.) rer, Click Cano

Figure 1-7 Program Installation

**Step 5.** A message window will pop up to guide you to connect the SMH10 to the computer. <u>Please</u> hook up the SMH10 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 SMH10 is found successfully in the installation.

Installing Please wait while SMH10 Mar	nager 1.0 is being installed.	E
Execute: C:\Program Files\Se	ena Technologies\SMH10 Manager\U	sbCheck1.exe
H10 is found, this m	essage will disappear afte	er 7 seconds.
in the is found. this in	ossago mil asappoar art	or 7 50001145.
	Cancel	
Extract: Microsoft.VC80.MF	Cancel FC.manifest 100%	E
Extract: Microsoft.VC80.MF Execute: C:\Program Files\	Cancel FC.manifest 100% (Sena Technologies \SMH 10 Manager \	UsbCheck1.exe

Figure 1-8 SHM10 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 Wizar	rd
	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	s install. 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 Device Driver Installation Wizard			
1 Parts	The drivers were successfully installed on this computer.			
	Driver Name	Status		
	✓ 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 SMH10 Manager will be started automatically.



Figure 1-6 Completing Setup Wizard

Please see the section 3 to learn how to use SMH10 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.

551	Errors were encountered while i devices. See the Status column	installing the software for your
		n for more details.
	Sometimes it helps to run this w contact your device vendor.	izard again. If that doesn't work,
	Driver Name	Status
	X Cambridge Silicon Radio	Install failed

Figure 1-7 Cannot complete the Device Driver Installation

- 1. Select "Finish" button and close SMH10 manager setup windows.
- 2. Uncheck the "Run SMH10 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 SMH10 remains connected to your computer with keeping poweron status.

- 4. After your computer is restarted, please go to the menu, of SMH10 Manager program, by moving to *Start Menu -> All Programs -> Sena Technologies -> SMH10 Manager*.
- 5. Select "Install Driver" in the SMH10 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 SMH10 Manager

Step 1. When you start SMH10 Manager, message box will be popped up as follows,

	x
1. Please disconnect all the Bluetooth devices from the PC.	
2. Power off the SMH10 and connect to the PC with the USB cable. The LED turns on red.	
<ol> <li>To power on the SMH10, press the Jog Dial and Phone Button simultaneously until the LED flashes violet.</li> </ol>	
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 SMH10 Manger will display the firmware version of your SMH10 automatically. You may find the message, "SMH10 is connected with computer" if the program is successfully connected to the SMH10.

SMU10	X
Ver. 3.1	
SMH10 is connected with computer.	
	SMH10 is connected with computer.

Figure 2-2 SMH10 is connected

If you fail to connect the SMH10, please close SMH10 Manager and restart it again.

SENA	
F/W UPDATE	
F/W RESTORE	
DEVICE SETTINGS	
	SMH10 is not connected with computer.

Figure 2-3 SMH10 is not connected

## 2.2. Updating Firmware

**Step 1**. To update firmware of your SMH10, select "F/W Update" Button.

*SMH10 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.

Ser	VA	SMH10 Ver. 3.0
F/W UPD.	New firmware is available. Would you like to download it from the server?	
F/W REST	CURRENT VERSION: v3.0 NEW VERSION: v3.1	SELECT
DEVICE SET	Yes No	
L	SELECT firmware file	

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	SMH10 Ver. 3.0
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 SMH10 and hold it awhile until the message disappears.

SENA	[ SMH10 Ver. 3.0
F/W UPDATE	d Phone Button until this message disappears.
DEVICE SETTINGS	UPDATE

Figure 2-8 Press and hold Phone button message

**Step 6**. Firmware is to be updated into the SMH10. During the process, please look into the message display of the program in order to check the progress. SMH10 Manager will first back up the firmware from the SMH10, and then write the new one to the device.

SENA	SMH10 Ver. 3.0
F/W UPDATE F/W RESTORE	16 %
DEVICE SETTINGS	Back-up to PC

Figure 2-9 Firmware Back up process



Figure 2-10 Firmware Writing process

Note:

When the progress is reached 92%, the process may look halted about one minute. This is normal operation for checking firmware on the SHM10.

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

Figure 2-11 Pressand hold Phone button and Jog Dial message

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

		Ver. 3
F/W UPDATE	SMH10 is successfully updated	-
F/W RESTORE	OK	SELECT
DEVICE SETTING	SS	

Figure 2-12 Update is completed

### 2.3. Restore Firmware

**Step 1**. To restore the SMH10 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 SMH10 had been updated. You need to use the same computer o firmware update when you restore it.

	SMH10 Ver. 3.1
F/W UPDATE	Backup firmware information
	FW Version: v3.0
F/W RESTORE	Date: 01/08/2011 17:49:48 Intercom VOX: Disabled
	Handsfree VOX: Disabled
DEVICE SETTINGS	EDR(Enhanced Date Rate): Enabled
	RESTORE
	Firmware Restore 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 SMH10 until the message disappears. Then, firmware restore process will be started.

SENA	SMH10 Ver. 3.1
F/W UPDATE	
F/W RESTORE	0%
DEVICE SETTINGS	
	Restoring old firmware to SMH10

Figure 2-14 Restoring firmware

SENA	SMH10 Ver. 3.1
F/W UPDATE	
Please press and hol	d Phone Button until this message disappears.
DEVICE SETTINGS	

Figure 2-15 Press and hold Phone button message



Figure 2-16 Firmware Restoring progress bar

Note:

When the progress is reached 92%, the process may look halted about one minute. This is normal operation for checking firmware on the SHM10.

**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	SMH10 Ver. 3.1
F/W UPDATE	
F/W UPDATE	Dial and Phone Button until this message disapp

Figure 2-17 Pressand hold Phone button and Jcg Dial message

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

	•	
SEIV	•	SMH10 Ver. 3.0
		1
F/W UPDATI	SMH10 is successfully restored.	
F/W RESTOR	ОК	SELECT
DEVICE SETTING	S	1
	Firmware Update is complete	ed.

Figure 2-18 Firmware Restore is completed

## 2.4. Update Firmware from specific file

**Step 1**. To update the firmware of your SMH10 using the firmware stored on your computer, select "F/W UPDATE" Button.

SENA		SMH10 Ver. 3.0
F/W UPDATE	F/W	
F/W RESTORE	Location	SELECT
DEVICE SETTINGS		
	SELECT Firmware file	

Figure 2-19 Update firmware

**Step 2**. Select "SELECT" button to open selection window, and then choose a firmware to be updated for your SMH10.

Open						? 🛛
Look in:	🗀 IMG		~	G 🕽	P	
My Recent Documents	backup.img	20110726.img				
My Documents						
My Computer						
	File name:	1			· (	Open
My Network	Files of type:	*.img			<b>~</b> (	Cancel

Figure 2-20 Open firmware

Step 3. Select "UPDATE" button to proceed.

SENA	SMH10
F/W UPDATE	Ver. 5.0
F/W RESTORE	
DEVICE SETTINGS	UPDATE
	Press Update Button

Figure 2-21 Select update button

SENA	[ SMH10 Ver. 3.0
F/W UPDATE	
F/W RESTORE	0 %
DEVICE SETTINGS	UPDATE
	Press "Update" 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 SMH10 and hold it awhile until the message disappears, and then the process will be continued.

JEIVA	SMH10 Ver. 3.
F/W UPDATE	
Please press Pho	ne Button until this message disappears.
DEVICE SETTINGS	UPDATE

Figure 2-23 Press and hold Phone button message

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

SENA	SMH10 Ver. 3.0
F/W UPDATE	
Please press and hold Jog Dia	al and Phone Button until this message disappears
DEVICE SETTINGS	UPDATE
	Writing firmware to SMH10

Figure 2-24 Press and hold Phone button and Jog Dial message

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

SEN	Α	SMH10 Ver. 3.1
F/W UPDATI		7
F/W RESTOR	SMH10 is successfully updated.	
DEVICE SETTING	iS OFDATE	J
	Writing firmware to SMH1	0

Figure 2-25 Updating is completed

## 2.5. Device Settings

You can set up some parameters of your SMH10 by using "DEVICE SETTINGS" menu.

			SMH10 Ver. 3.1
F/W UPDATE	Intercom VOX	O Enable	<ul> <li>Disable</li> </ul>
EAN DESTORE	Handsfree VO>	< 🔿 Enable	<ul> <li>Disable</li> </ul>
F/W RESTORE	EDR	Enable	O Disable
DEVICE SETTINGS			
	SAVE		CANCEL
	Configure Dev	vice Configur	ation

Figure 2-26 Device settings

Please note that changing device settings is supported from firmware version 3.1. Please update your firmware first to set up the parameters.

		Ver. 3.1
F/W UPDATE	Intercom VOX <ul> <li>Enab</li> </ul>	le O Disable
EAM DESTORE	Handsfree VOX O Enab	le 💿 Disable
F/W RESTORE	EDR 💿 Enab	le 🔿 Disable
DEVICE SETTINGS		
	SAVE	CANCEL
DEVICE SETTINGS	SAVE Intercom Vox has beer	CAN

Figure 2-27 Changing Device Settings

After changing settings, select "SAVE" button to save the changes to SMH10.

SEN	JA		SMH	10
Would yo	u like to save cha	anges ?	Ver.3	3.1
NOTE : C	hanges will be ap	oplied after the	SMH10 restarts	
	OK		Cancel	
		SAVE	CANCEL	
	Interco	m VOX has be	en enable	

Figure 2-28 Confirm save chnages

#### Note:

Change of device settings is effective only after SMH10 is restarted.

## 2.6. Checking version of SMH10 Manager

In order to check the software version of *SMH10 Manager*, click [?] button on the upper-left corner of the *SMH10 Manager*.

<sup>7</sup> <b>S</b>		SMH10 Ver. 3.1
5	SMH10 Manager Version Copyright (C) 2011 SENA	1.0 OK Technologies
	SA Changes ha	VE CANCEL ave been applied.

Figure 2-29 Check the version of SMH10 Manager







