1.0 SmartMan Manual – 1. Start 0. Install Software

For SmartMan, Airway, Megacode, ROC Click on any row in Table of Contents to go to that section

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1.0. Installing SmartMan

This document provides instructions on how to download and install the SmartMan software for version 5.1+ or later, plus how to install the correct USB driver for the manikin.

This SmartMan software is specifically designed for Guidelines 2010 and runs on SmartMan manikins purchased after 1 April 2011 or which have been upgraded to the new guidelines after 1 April 2011.

Download the software then double click to install it.

Then plug in the USB cable, then manually point the operating system to the drivers.

Тор

1.0.1 Step 1: Download and Install The Software

Download: There is one version of the software for both SmartMan and Airway SmartMan. The software will recognize which physical manikin is connected.

The software contains the SmartMan program and the USB drivers. Download the software by clicking the following link:

http://www.ambusmartman.com/s-update.html

Install: DO NOT PLUG THE USB CABLE INTO THE MANIKIN YET. Double click on the file that you download. Follow the prompts on this self extracting file. This will create the proper directories, install the SmartMan Software, create a shortcut on your desktop, and it will create a directory with the SmartMan USB drivers.

1.0.2 Step 2: Install SmartMan USB Drivers on Different Operating Systems

You must install the USB drivers by hand. <u>Do NOT allow the operating system to install</u> <u>automatically as it will create a link to the wrong driver</u>. If this happens, the incorrect driver needs to be deleted and a correct driver must be installed.

Each operating system has a slightly different series of procedures to point to the USB drivers. Once a computer knows where to find the drivers, you do not have to do this again when you upgrade or change manikins.

There are several ways to get the operating system to point to the correct drivers. Sometimes the operating system will give you options to point to the drivers, and sometimes it will not. If an incorrect link to an incorrect driver has been established, you can always correct this by going directly to the **Device Manager**.

For details on how to install the SmartMan USB drivers on each operating system, click on the link below.

To install directly from device manager or to correct an installation, select option 4 below.

Vista Operating System XP Operating System Win 7 Operating System Win 8 Operating System

Using Device Manager to Install Directly

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1.0.2.1. Install USB Drivers on a VISTA Operating System

Under Vista all USB connected devices must load the correct drivers.

When you unzip the SmartMan software, it created a directory which contains the proper driver. You must tell the operating system to use these drivers.

The Procedure

Plug the USB cable in the manikin and into the computer.

You will see that Windows will detect a new device.

Windows will always ask if you "want to:

"Search automatically for updated software"

"Browse my computer for driver software"

Always choose the "Browse my computer" option

The drivers are in one of two places depending on which operating system you have and whether it is 32 bit or 64 bit. Follow the onscreen instructions to point to one of the following locations:

C:\Program Files\SmartManv5.3\SmartManDriver

OR

C:\Program Files (x86)\SmartManv5.3\SmartManDriver

The operating system will take up to 2 minutes to copy and install the driver.

When you first plug in the USB cable Vista will attempt to install a new device. When you see the following message select the first option "Locate and install driver software".



If you see the following message, select "I don't have the disc. Show me other options".

Ge I Found New Hardware - VM167 USB Interface Board	X
Insert the disc that came with your VM167 USB Interface Board If you have the disc that came with your device, insert it now. Windows will automatically search the disc for driver software.	
I don't have the disc. Show me other options.	
Next	Cancel

This will bring up the following screen. Select the second option "Browse my computer for driver software"



You will be given the chance to Browse for the driver. Click Browse and go to the following directory

C:\Program Files\SmartManv5.3\SmartManDriver

OR

C:\Program Files (x86)\SmartManv5.3\SmartManDriver

Browse for di	river software on your computer			
Search for driver	software in this location:			
C:\Program Fi	iles (x86)\SmartMan v5.1\SmartManDriver	•	Browse	
Include subfol	ders			
☑ Include subfol	ders			
✓ Include subfol	ders			
☑ Include subfol	ders	k		
☑ Include subfol	ders	¥		
✓ Include subfol	ders	¥		

If you see the following security message click, "Install this driver software anyway."



The operating system will take up to 2 minutes to copy and install the driver. It will tell you that the device has been installed correctly.

1.0.2.2 Install USB Driver on an XP Operating System

Under XP all USB connected devices must load the correct drivers.

When you unzip the SmartMan software, it created a directory which contains the proper driver. You must tell the operating system to use these drivers.

The Procedure

Plug the USB cable in the manikin and into the computer.

You will see that Windows will detect a new device.

Windows will always ask if you "want to:

"Search automatically for updated software"

"Browse my computer for driver software"

Always choose the "Browse my computer" option

The drivers are in one of two places depending on which operating system you have and whether it is 32 bit or 64 bit. Follow the onscreen instructions to point to one of the following locations:

C:\Program Files\SmartManv5.3\SmartManDriver

OR

C:\Program Files (x86)\SmartManv5.3\SmartManDriver

The operating system will take up to 2 minutes to copy and install the driver.

When you plug in the USB cable you will be prompted by Windows with the 'Found New hardware Wizard'.

Hardware Update Wizard	
	Welcome to the Hardware Update Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time Click Next to continue.
	< Back Next > Cancel

Select 'No, not this time' and click 'Next' to continue

Hardware Update Wizard	
	This wizard helps you install software for: VM167 USB Interface Board If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do? Install the software automatically [Recommended] Install from a list or specific location (Advanced]
	Click Next to continue.
	< <u>Back</u> Next > Cancel

Select 'Install from a list or specific location (Advanced)' Click 'Next' to continue.

You will be asked for the location of your driver files. Select 'Include this location in the search' and browse to the following location

C:\Program Files\SmartManv5.3\SmartManDriver OR C:\Program Files (x86)\SmartManv5.3\SmartManDriver

ease c	hoose your search and installation options.
⊙ Se	arch for the best driver in these locations.
Us pa	e the check boxes below to limit or expand the default search, which includes loca ths and removable media. The best driver found will be installed.
	Search removable media (floppy, CD-ROM)
٢	Include this location in the search:
	C:\Program Files (x86)\SmartMan v5.1\SmartManDriver 🗸 🛛 Browse
ODe	on't search. I will choose the driver to install.
Ch	oose this option to select the device driver from a list. Windows does not guarante
(rie	o driver you choose will be the best match for your hardware.
	< Back Next > Canc

Click 'Next' to continue.

If you receive a warning, click **'Continue Anyway'**. And then click **'Finish'**. The operating system will take up to 2 minutes to copy and install the driver. It will tell you that the device has been installed correctly.

1.0.2.3. Install USB Drivers on a Windows 7 (32/64 bit)

Under Win 7 all USB connected devices must load the correct drivers.

When you unzip the SmartMan software, it created a directory which contains the proper driver. You must tell the operating system to use these drivers.

The Procedure

Plug the USB cable in the manikin and into the computer.

You will see that Windows will detect a new device.

Windows will always ask if you "want to:

"Search automatically for updated software"

"Browse my computer for driver software"

Always choose the "Browse my computer" option

The drivers are in one of two places depending on which operating system you have and whether it is 32 bit or 64 bit. Follow the onscreen instructions to point to one of the following locations:

C:\Program Files\SmartManv5.3\SmartManDriver

OR

C:\Program Files (x86)\SmartManv5.3\SmartManDriver

The operating system will take up to 2 minutes to copy and install the driver.

Plug the USB cable into the manikin and into the computer.

When the program asks to install the device, select 'Browse my computer for the driver software' 'locate and install driver software manually.' This is the second option

HO	w do you want to search for driver software?	
•	Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.	
•	B <u>r</u> owse my computer for driver software Locate and install driver software manually.	

Locate the driver software here

C:\Program Files\SmartManv5.3\SmartManDriver OR C:\Program Files (x86)\SmartManv5.3\SmartManDriver

Bro	wse for driver software on your computer
Sear	ch for driver software in this location:
C	:\Program Files (x86)\SmartMan v5.1\SmartManDriver
⊽ Įr	clude subfolders
+	Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver

Click 'Next' to continue.

When you receive the following warning, click 'Install this software anyway'.

Wi	ndows can't verify the publisher of this driver software
•	Do <u>n</u> 't install this driver software You should check your manufacturer's website for updated driver software for your device.
-	Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or ster information.

Installation of the drivers should now be complete.



The operating system will take up to 2 minutes to copy and install the driver. It will tell you that the device has been installed correctly.

1.0.2.4 Install USB Drivers on a Windows 8 Operating System (32/64 bit)

Under Win 8, as in Win 7, all connected devices must load the correct drivers. However there is one extra step in Windows 8.

When you unzip the SmartMan software, it created a directory which contains the proper driver. Before you point the operating system to the driver, you MUST turn off driver signing. Thus to install on a Win 8 operating system you must:

Turn off driver signing (see below)

Tell the operating system to use these drivers. (Same as instructions for Win 7 – see Above)

1.0.2.4.1. How To Turn OFF Driver Signing in Win 8

Summary of Procedures in Words

- 1. From the Metro Start Screen, open Settings (move your mouse to the bottom-right-corner of the screen and wait for the pop-out bar to appear, then click the Gear icon).
- 2. Click 'More PC Settings'. (lower right of screen)
- 3. You will see "Personalize" and other settings
- 4. Scroll to 'General' and click.
- 5. In General, on the right side Scroll down until you see "Advanced startup", and click 'Restart now'
- 6. In Choose an Option, Click 'Troubleshoot'.
- 7. In Trouble Shoot, Click 'Advanced Options'
- 8. In Advanced Option, Click 'Windows Startup Settings'
- 9. You will then see and information screen. Click Restart Button.
- 10. Windows will restart. You will then see a screen showing what you can do.
- 11. Press F7, when screen gives you the selection
- 12. Now load your SmartMan driver in the normal way

Link to a short video on how to do this.

http://www.youtube.com/watch?v=NM1MN8QZhnk

Detail in Pictures

Win 8.0 Step 1

From the Metro Start Screen, open Settings (move your mouse to the bottom-right-corner of the screen and wait for the pop-out bar to appear, then click the Gear icon).





Win 8.0 Step 3

You will see the following Screen.

PC settings







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Win 8.0 Step 4

Scroll Down and click on "General"

PC settings

Personalise	
Users	
Notifications	
Search	
Share	
General	
Privacy	
Devices	
Ease of Access	
Sync your settings	
HomeGroup	
Windows Undate	

Win 8.0 Step 5

Still in "General" slide the slider bar on the right side to the bottoms so you can see "Advanced Start-Up"

PC settings

Personalise
Users
Notifications
Search
Share
General
Privacy
Devices
Devices Ease of Access
Devices Ease of Access Sync your settings
Devices Ease of Access Sync your settings HomeGroup

Time 11:22, 27 December 2012 (UTC-05:00) Eastern Time (US & Canada) ¥ Adjust for daylight saving time automatically On A App switching Allow switching between recent apps On When I swipe in from the left edge, switch to my most recent app On -Delete history Touch keyboard Show text suggestions as I type On Add a space after I choose a text suggestion On

Available storage

You have 64.0 G8 available. See how much space your apps are using. View app sizes

Refresh your PC without affecting your files

If your PC isn't running well, you can refresh it without losing your photos, music, videos and other personal files. Get started

Remove everything and reinstall Windows

If you want to recycle your PC or completely start again, you can reset it to its factory settings. Get started

Advanced start-up

Win 8.0 Step 6

You will then see this screen. Click on "Troubleshoot"

Choose an option

\rightarrow	Continue Exit and continue to Windows 8
11	Troubleshoot Refresh or reset your PC, or use advanced tools
Φ	Turn off your PC



Win 8.0 Step 10

You computer will then take a bit of time to restart. Once that is done it will give you the following screen. You must select which option you want.

Startup Settings

Press a number to choose from the options below:

Use number keys or functions keys F1-F9.

1) Enable debugging
 2) Enable boot logging
 3) Enable low-resolution video
 4) Enable Safe Mode
 5) Enable Safe Mode with Networking
 6) Enable Safe Mode with Command Prompt
 7) Disable driver signature enforcement
 8) Disable early launch anti-malware protection
 9) Disable automatic restart after failure

Press F10 for more options Press Enter to return to your operating system

Win 8.0 Step 11 The option you want is option 7. Press F7 to start and disable driver signing. Press a number to choose from the options below: Use number keys or functions keys F1-F2 Image: Comparison of the options below: 1) Enable debugging Image: Comparison of the option video 2) Enable Safe Mode Image: Comparison of the option option of the option of the option o

1.0.2.4.2. How To Point to SmartMan Drivers on Win 8.0

Win 8.0 Step 12 Windows 8 will now start Now go to your normal procedure to point the operating system to the SmartMan Drivers. See Instructions above for Installing on Win 7

I.0.2.4.3. How To Install on Win 8.0

Once you have restarted your computer with Driver Signing off, and pointed the USB driver to the correct location, run the software .

Win 8 will show you the following message:



You **MUST** click on "More Info" to be able to see the next screen. Once you do that click on "Run Anyway" and it will install correctly.



It will then install correctly

1.0.2.5 Install USB Drivers on a Windows 8.1 Operating System (32/64 bit)

Under Win 8.1, as in Win 8 and in Win 7, all connected devices must load the correct drivers. However there is one extra step in Windows 8.

The procedure to install on Win 8.0 and Win 8.1 are the same, However, Microsoft changed where to find the Buttons. Below you will find the correct procedures.

When you unzip the SmartMan software, it created a directory which contains the proper driver. Before you point the operating system to the driver, you MUST turn off driver signing. Thus to install on a Win 8 operating system you must:

Turn off driver signing (see below)

Tell the operating system to use these drivers. (Same as instructions for Win 7 – see Above)

Summary of Procedures in Words

- 1. From the Metro Start Screen, open Settings (move your mouse to the bottom-right-corner of the screen and wait for the pop-out bar to appear, then click the Gear icon).
 - 2. Click 'More PC Settings'. (lower right of screen)
 - 3. Click "Recovery and Update" (usually the last selection)
 - 4. In "Recovery and Update" click on "Recovery"
 - 5. In Advanced SetUp, Click "Restart Now"
 - 6. Choose 'Troubleshoot'.
 - 7. In Trouble Shoot, Click 'Advanced Options'
 - 8. In Advanced Option, Click 'Startup Settings'
 - 9. You will then see and information screen. Click Restart Button.
 - 10. Windows will restart. You will then see a screen showing what you can do.
 - 11. Press F7, when screen gives you the selection
 - 12. Now load your SmartMan driver in the normal way

Link to a short video on how to do this.

http://www.youtube.com/watch?v=NM1MN8QZhnk

Detail in Pictures

Win 8.1 Step 1 From the Metro Start Screen, open Settings (move your mouse to the bottom-right-corner of the screen and wait for the pop-out bar to appear, then click the Gear icon). - CO





Win 8.1 Step 8 Jse a restore point recorded on your C to restore Windows Use the Command Prompt f advanced troubleshooting C:/ In Advanced Options click on "Start-p Settings" Start-up Settings Change Vindows' start-up be Ö Recover Windows u system image file ix problems that keep Window $\langle \circ \rangle$ Start-up Settings € Win 8.1 Step 9 Restart to change Windows options such as: You will then see this Enable low-resolution video mode Enable debugging mode screen. It is only Enable boot logging information. Click on Grable driver signature enforcement Jusable early-launch anti-malware protection "Restart Button" Startup Settings Win 8.1 Step 10

You computer will then

take a bit of time to restart. Once that is done it will give you the following screen. You must select which option you want. Press a number to choose from the options below:

Use number keys or functions keys F1-F9.

- 1) Enable debugging
 2) Enable boot logging
 3) Enable low-resolution video
 4) Enable Safe Mode
 5) Enable Safe Mode with Networking
 6) Enable Safe Mode with Command Prompt
 7) Disable driver signature enforcement
 8) Disable early launch anti-malware protection
- Disable automatic restart after failure

Press F10 for more options Press Enter to return to your operating system



1.0.2.5.2. How To Point to SmartMan Drivers on Win

Win 8.1 Step 12 Windows 8 will now start Now go to your normal procedure to point the operating system to the SmartMan Drivers. See Instructions above for Installing on Win 7

1.0.2.5.3. How To Install on Win 8.1

Once you have restarted your computer with Driver Signing off, and pointed the USB driver to the correct location, run the software .

Win 8.1 will show you the following message:



You **MUST** click on "More Info" to be able to see the next screen. Once you do that click on "Run Anyway" and it will install correctly.



It will then install correctly

1.0.2.6. Install Using Device Manager

Under Win 7 all USB connected devices must load the correct drivers.

When you unzip the SmartMan software, it created a directory which contains the proper driver. You must tell the operating system to use these drivers.

1.0.2.6.1. Using Device Manager to Install or Correct an Installation

I.0.2.6.1.1 What Device Manager Does

All devices installed and currently working on your computer will show in the Device Manager. When the USB is plugged in, it should show under "Customer USB Devices". If it is not plugged in, it will not show.

From here you can install, uninstall, re-install any device driver. If there is an error in the installed driver, you can delete the driver and point to the correct area to fix the driver.

If SmartMan was plugged in and Windows operating system automatically assigned a driver, SmartMan cannot work. The correct driver MUST be installed.

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I.0.2.6.1.2 Get To Device Manager From Control panel

Click on Start, Click on Control Panel, Click on Device Manager



I.0.2.6.I.3 Get to Device Manager at Start

Click Start Button.

Type Device Manager. Wait until it finds it

Click on Device Manager.

Programs (1)	
III Adobe Device Central CS5	
Control Panel (3) Device Manager View devices and printers Update device drivers	
See more results	
Device Manager ×	Shut down 🕨
🚱 o 🛛 🤅 🖸	•

After you type it, it will appear where the red arrow is in the above picture. Click on "Device Manager" when it appears.

1.0.2.6.1.4 Get To Device Manager From System

If you go to system, on the left hand side there is a link to Device manager

SmartMan should appear as a Custom US Device, such as in the following Win 7 example. If it installed correctly it will appear as in the following table. You may not find any device. If the USB cable is plugged in and nothing is showing, then unplug the cable and plug it back in.

When correctly Installed, you will see either

- a) VM167 USB Interface Card, or
- b) SmartMan Interface Card



<u>Device Showing With Error</u>. If there is an error in the link to any device, there will be a small yellow triangle with an exclamation mark in it by that device. You will see something like the following with the yellow exclamation marked icon.



<u>Top</u>

1.0.2.6.3 What To Do In Device Manager

From device manager you are able to Install the SmartMan USB drivers from scratch, or Update the SmartMan USB drivers, or Delete the driver and re-install it again if required.

1.0.2.6.3.1 Update Driver From Yellow Triangle

- Right Click on line with the triangle to select it.
- Click Uninstall. This will get rid of the incorrect drivers.
- Click Upgrade Drivers
- Do not Click Disable

See an illustration of a typical setup below.



The device you are looking for is the VM167 USB Interface Board.

It should be listed under Custom USB Devices, but if there is a problem it will likely show under Other Devices with the yellow exclamation icon. It could show incorrectly under some other device.



The yellow triangle with the exclamation mark means that it has not been installed correctly.

Often the operating system will recognize the device but the drivers are not properly linked to it. If there is a yellow triangle with an exclamation mark, there is a problem with the drivers.

Select VM167 USB Interface Board.

Right click and in the window select 'Update Driver Software'

Select to browse for the location of the SmartMan drivers. This will take you back to the beginning of the installation instructions listed above.

If that option to 'Update Driver Software' is not there on the menu, you most likely have just plugged the USB cable into your computer. Wait for about 5 minutes and see if it has finished or select the next option.

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1.0.2.6.3.2 Install Directly From Action Menu

When in the Device Manager, another option is to go to Actions in the top menu bar. From here you can install the SmartMan Drivers from scratch.

In order to have any option under Actions, you must select (click once) on a device.

- 1. Click on "Universal Serial Bus controllers" once to select it
- 2. Click on Action
- 3. Select "Add legacy hardware" then follow the onscreen directions to point the operating system to the correct SmartMan drivers. Detail on this is below.



Click Next

Hardware			
The	The wizard can help you install other hardware		
	The wizard can search for other hardware and automatically install it for you. Or, if you know exactly which hardware model you want to install, you can select it from a list.		
	What do you want the wizard to do?		
	Search for and install the hardware automatically (Recommended)		
J	Install the hardware that I manually select from a list (Advanced)		
	< Back Next > Cancel		

Select to "Install the hardware manually".

If you do not see the hardware category you want, click Show	All Devices.
Common hardware types:	
	*
Custom USB Devices	E.
IDE ATA/ATAPI controllers	
EEEE 1284.4 compatible printer	
IEEE 1284.4 devices	
IEEE 1394 Bus host controllers	
Traging devices	

Click on "Custom USB Devices". Then click next.

Select the device driver you want to install for	r this hardware.
Select the manufacturer and model of yo disk that contains the driver you want to i	our hardware device and then click Next. If you hav install, click Have Disk.
Model VM167 USB Interface Card	
This driver is not digitally signed!	Have Disk

If SmartMan is plugged in, it should find the VM167 USB Interface Card. Click on Have Disk.



Click on browse.

Then point the drivers to

C:\Program Files\SmartManv5.3\SmartManDriver

OR

C:\Program Files (x86)\SmartManv5.3\SmartManDriver

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1.0.3 Step 3: Start SmartMan



Create a login, add your password and confirm. Then press Enter to go to the Main Menu.

Some products require that you register users. If your medical direction requires results tracking and submission of results to a server, you must register all users. You must have access to the internet in order to register students.

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