

Model 314 – MPEG A/V Capture

Quick Start Guide for Windows XP Embedded

The instruction below is for the Windows XP Embedded (XPe) user(s) to use Sensoray Model 314 in their XPe system.

Some basic XPe development knowledge and experience listed below are needed.

Installing Windows XP Embedded Studio Tools (SP1+SP2)
Using Component Designer, Component Database Manager, and Target Designer
Walking through a build, resolving dependencies, deploying an image
Disk or CompactFlash Preparation, FBA, EWF, etc

There are two ways to install needed s314 device driver and/or obtain s314 component for Windows XP Embedded.

As regular XP device driver installation, after building and deploying image

- Since the s314 applies many components from DirectX 9.0c, for s314 working properly with XPe, the XPe-SP2 must be installed into your XPe development system and environment, and all DirectX 9.0c components must be added and built into the runtime XPe image.

- Build and deploy the XPe image without s314 added.

- After FBA (First Boot Agent) running & configuration complete, and the system can boot from normal XP embedded window, install s314 app demo and driver by running “314Setup_aug_01.exe”.

- Add Sensoray Model 314 module (board) into the stack. (“shutdown –s –t 00”, first; power-off and add board; re-power-on and boot-up)

- Since the driver installation was not complete when you run “314Setup_aug_01.exe”, unpack “s314XPeSP2Driver.zip” package, and then copy all files in the “s314XPeSP2Driver” package to the directory you have installed and held the s314 driver (the default directory should be C:\program files\Sensoray\314\driver\.).

- With Control Panel | System | Hardware | Device Manager or New Hardware Wizard, update/install driver for “Sensoray 314 A/V Capture” from a specified location that holds the s314XPeSP2Driver (default as C:\program files\Sensoray\314\driver)

- When updating and installing, some .ax and .dll registration may be missing. Therefore, some manually adjusting and registering may be needed. Start | Run “regsvr32 ??? .ax” or “regsvr32 ??? .dll” could be used for registering a .ax or .dll.

- Once “Sensoray 314 A/V Capture” driver been installed and working properly, run “314 Demo program” or “314 Console” from Start | All Program | Sensoray 314 SDK, for demo and testing.

Import and obtain s314 component, before building the image (Suggested)

- Since the s314 applies many components from DirectX 9.0c, for s314 working properly with XPe , the XPe-SP2 must be installed into your XPe development system and environment, and all DirectX 9.0c components must be added in the runtime image when you built your image for the XPe system with 314(s).

- For the purpose of componentizing s314 for XPe, a .sld has been built for the 314 user(s) to import and add the s314 component into your XPe.

- To use the s314 component and enable the s314 on your embedded runtime, first install the “s314XPeSP2Driver” package on your XPe development machine.

- Then, import the s314.sld from the folder you hold the “s314XPeSP2Driver” into your database, using Component Database Manager | Database | Import. Confirm that the “Copy repository files to repository root” box is checked.

- A repository folder for the s314 component will be created under \Window Embedded Data\Repositories\{????????-????-????-????-????????????}

- Copy the driver files from the “s314XPeSP2Driver” folder into the repositories folder, if you did not check the “Copy repository files to repository root” box.

- Using Target Designer, open the .slx file you built before importing the s314.sld.

- Add the s314 component to your runtime.

- Run check dependencies under Target Designer | Configuration. And, resolve all dependencies if you see any dependency needed to be resolved.

- Build Target Image using Target Designer and under Configuration.

- Deploy the Image for the system with 314(s).

- Since the BDA.inf from DirectX 9.0c can not be imported properly when componentizing, after FBA and system reboot, you may need to update driver for the unknown device with GUID {48926476-2CAE-4DED-A86E-73DDEBED6779}\NDISIP, using ndisip.inf.

- Reboot system. All unknown devices should be gone and the “Sensoray 314 A/V Capture” should be working properly and under “Sound, video, and game controller” device category.
- Run “314Setup_aug_01.exe” to install the demo application and ffdshow codec. In the step of installing s314 driver, cancel the process to avoid the driver re-installation, since the driver has been built in the runtime image.
- Run “314 Demo program” from Start | All Program | Sensoray 314 SDK, for GUI-based 314 demo and test program.
- Run “314 Console” from Start | All Program | Sensoray 314 SDK, or Run | Open | cmd and then “cd \Program Files\Sensoray\314\DemoConsoleApp\Release” and “demo”, for DOS-prompt-based 314 demo and test program.

Appendix-A: File list of s314 driver and DirectX 9.0c components needed for 314

(all DirectX 9.0c components could be extracted from XP-Pro+SP2 CD)



Name	Size	Type	Date Modified
34coinstaller.dll	3 KB	Application Extension	6/10/2004 10:29 PM
at71.dll	87 KB	Application Extension	6/6/2005 5:10 AM
bda.inf	10 KB	Setup Information	8/3/2004 11:05 PM
bdaplgin.ax	18 KB	AX File	8/4/2004 12:56 AM
bdasup.sys	12 KB	System file	8/3/2004 11:10 PM
ccdecode.inf	4 KB	Setup Information	8/3/2004 11:06 PM
Chn16_1.osd	3 KB	OSD File	12/3/2004 3:31 AM
Chn16_2.osd	3 KB	OSD File	12/3/2004 3:31 AM
Chn_hollow.osd	11 KB	OSD File	12/3/2004 3:31 AM
DPInst.exe	509 KB	Application	11/17/2005 3:46 PM
dmk.sys	59 KB	System file	8/3/2004 11:08 PM
Eng16_1.osd	13 KB	OSD File	12/3/2004 3:31 AM
Eng16_2.osd	13 KB	OSD File	12/3/2004 3:31 AM
Eng_hollow.osd	49 KB	OSD File	12/3/2004 3:31 AM
fix_setting314.txt	5 KB	Text Document	7/21/2006 11:39 AM
ipsink.ax	16 KB	AX File	8/4/2004 12:56 AM
iyuv_32.dll	47 KB	Application Extension	8/4/2004 12:56 AM
ks.inf	37 KB	Setup Information	8/3/2004 11:08 PM
ks.sys	138 KB	System file	8/3/2004 11:15 PM
kscaptur.inf	24 KB	Setup Information	8/3/2004 11:08 PM
ksfilter.inf	10 KB	Setup Information	8/3/2004 11:08 PM
ksproxy.ax	127 KB	AX File	8/4/2004 1:56 AM
kstvtune.ax	61 KB	AX File	8/4/2004 12:56 AM
ksuser.dll	4 KB	Application Extension	8/4/2004 12:56 AM
kswdmcap.ax	89 KB	AX File	8/4/2004 12:56 AM
ksxbar.ax	42 KB	AX File	8/4/2004 12:56 AM
layout.inf	399 KB	Setup Information	8/4/2004 2:44 AM
mpe.inf	4 KB	Setup Information	8/3/2004 11:08 PM
msdvbnr.ax	56 KB	AX File	8/4/2004 12:56 AM
msh263.drv	288 KB	Device driver	8/4/2004 12:56 AM
mstee.sys	6 KB	System file	8/3/2004 10:58 PM
msyuv.dll	17 KB	Application Extension	8/4/2004 12:56 AM
nabtsfec.inf	5 KB	Setup Information	8/3/2004 11:08 PM
ndisip.inf	7 KB	Setup Information	8/3/2004 11:08 PM
ndisip.sys	11 KB	System file	8/3/2004 11:10 PM
portcls.sys	143 KB	System file	8/3/2004 11:15 PM
psisdecn.dll	355 KB	Application Extension	8/4/2004 12:56 AM
psisrndr.ax	33 KB	AX File	8/4/2004 12:56 AM
s314.inf	9 KB	Setup Information	9/20/2006 1:47 AM
s314.sys	839 KB	System file	8/1/2006 7:29 PM
s314fw.bin	31 KB	BIN File	11/16/2005 4:32 AM
s314fw_pf.bin	1 KB	BIN File	6/10/2004 10:29 PM
s314proxypci.ax	116 KB	AX File	8/1/2006 7:12 PM
s314sb.bin	141 KB	BIN File	6/10/2004 10:29 PM
slip.inf	4 KB	Setup Information	8/3/2004 11:10 PM
stream.sys	48 KB	System file	8/3/2004 11:08 PM
streamci.dll	8 KB	Application Extension	8/17/2001 9:36 PM
streamip.inf	6 KB	Setup Information	8/3/2004 11:10 PM
streamip.sys	15 KB	System file	8/3/2004 11:10 PM
tsbyuv.dll	8 KB	Application Extension	8/17/2001 10:36 PM
vfwvdm32.dll	53 KB	Application Extension	8/4/2004 12:56 AM
vidcap.ax	28 KB	AX File	8/4/2004 12:56 AM
video_profiles314.txt	20 KB	Text Document	6/7/2005 6:07 AM
wdmaud.drv	23 KB	Device driver	8/4/2004 12:56 AM
wdmaudio.inf	24 KB	Setup Information	8/23/2001 3:00 PM
wisaviwriter.dll	108 KB	Application Extension	6/30/2005 10:39 AM
wstcodec.inf	4 KB	Setup Information	8/3/2004 11:11 PM
wstcodec.sys	19 KB	System file	8/3/2004 11:10 PM
wstdecod.dll	50 KB	Application Extension	8/4/2004 1:56 AM

60 objects (Disk free space: 7.39 GB) 4.15 MB My Computer

Appendix-B: DirectX 9.0c driver, ax, and dlls needed for 314

(Dependency directly shown in s314.inf)

ks.inf

wdmaudio.inf

kscaptur.inf

bda.inf:

BdaPlgIn.ax

MsDvbNp.ax

PsisRndr.ax

PsisDecd.dll

BdaSup.sys