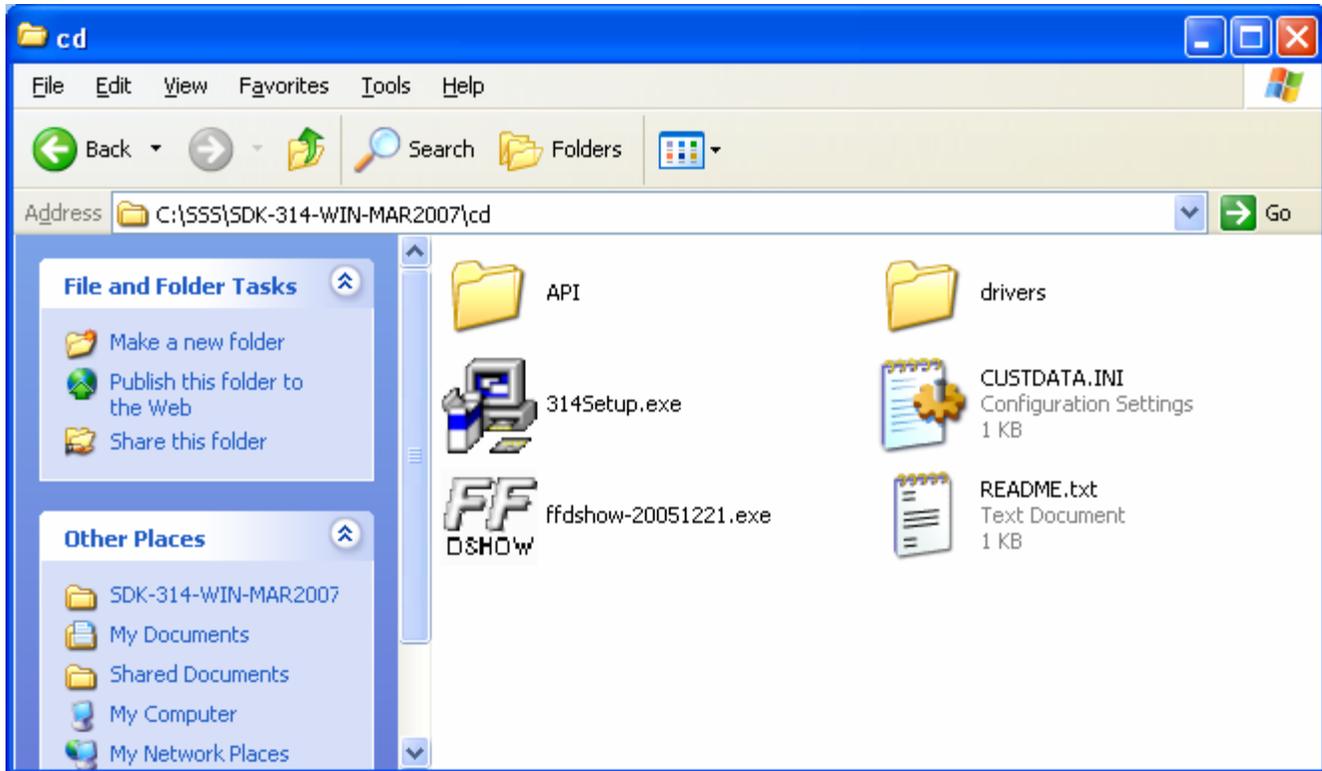# SENSORAY | embedded electronics

314 Quick Start for Windows XP

314 Quick Start for Windows XP

1) Download or copy the SDK-314-WIN-MmYyyy.zip to a folder you desire.

2) Keep the Model 314 physically not installed in your stack.

3) From the extracted SDK-314-WIN-MmYyyy.zip directory, select the executable program ".\cd\314Setup.exe".

4) Follow the instructions to install the SDK and FFdshow.

5) Once the SDK-314-WIN installation is complete, shutdown the XP and turn the stack power off.

6) Plug the 314 module into your stack and power the stack on. **Note:** before plugging the 314 module into the stack, make sure that the jumper settings (SW1 and SW2) of the 314 are correct. Refer to the "Model 314 Manual" for the instructions on how to set the SW1/SW2 jumpers and select proper slot# and INT#.

7) When the "Found New Hardware Wizard" comes up, choose "No, not this time"; Then, click "Next".

8) Choose "Install from a list or specific location (Advanced)" and then click "Next".
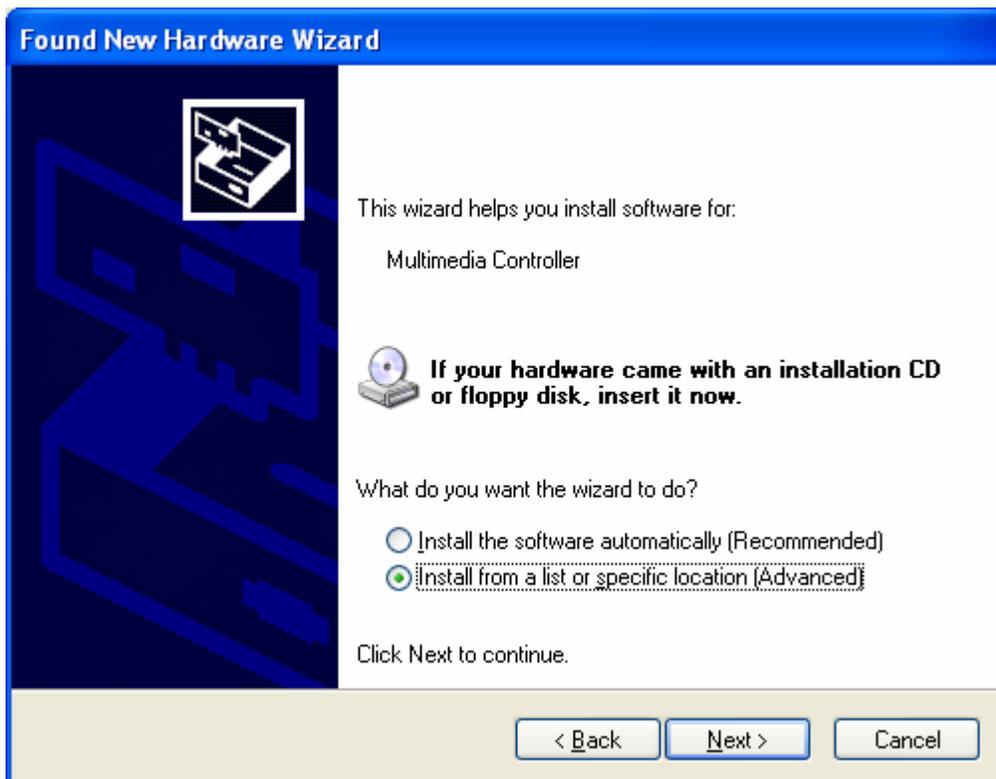
9) Choose "Don't search, I'll choose the driver to install". Then click "Next".
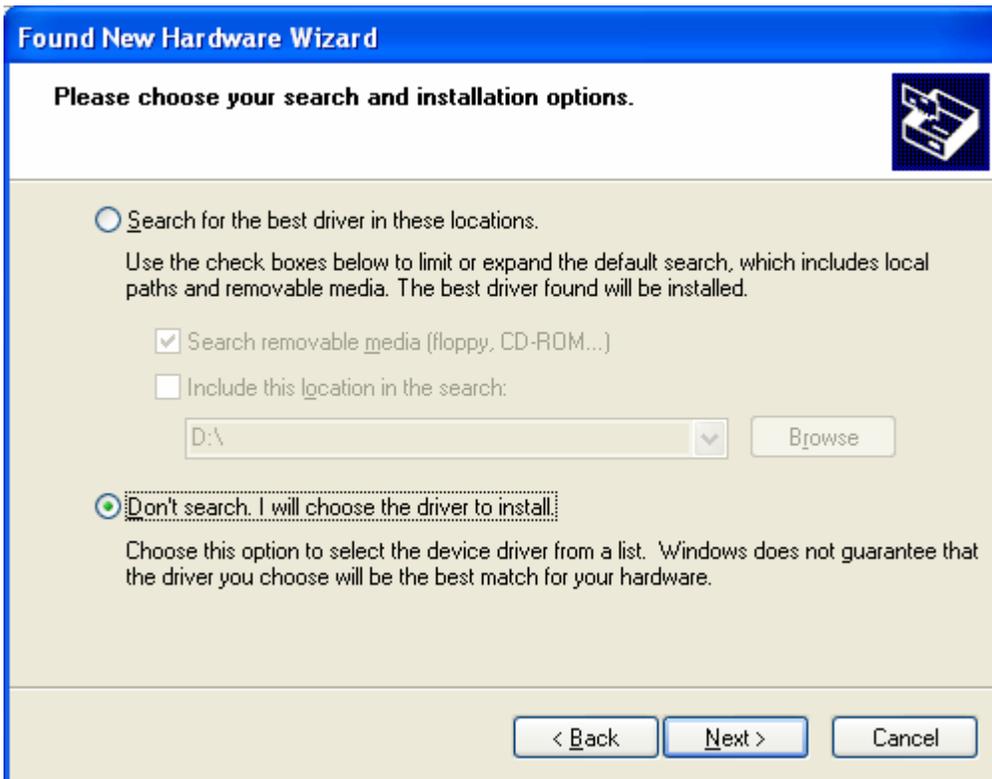
10) Leave default highlighted "Show All Devices" and then click "Next".
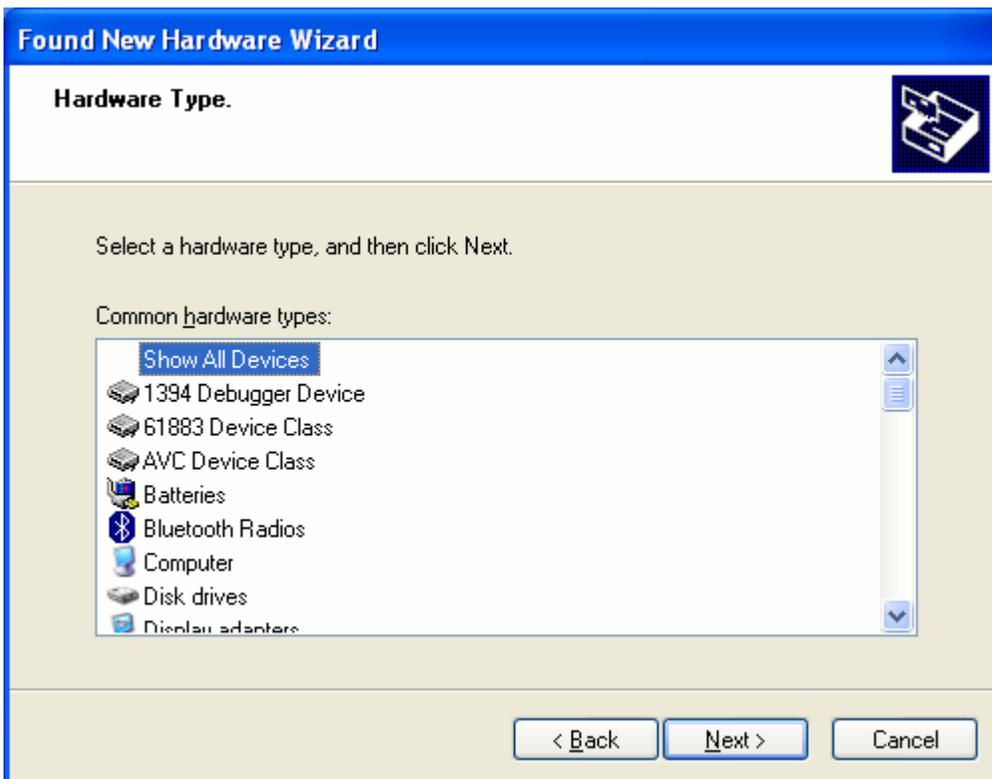
11) Choose "Have Disk".
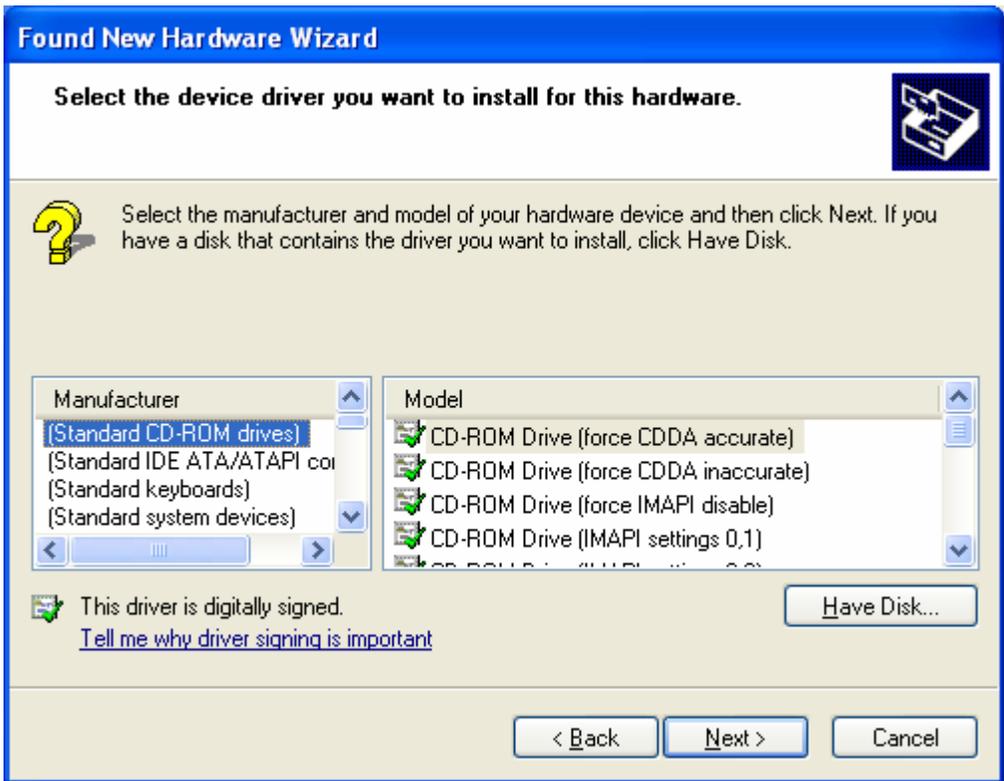
12) The "Install From Disk" window pops up.
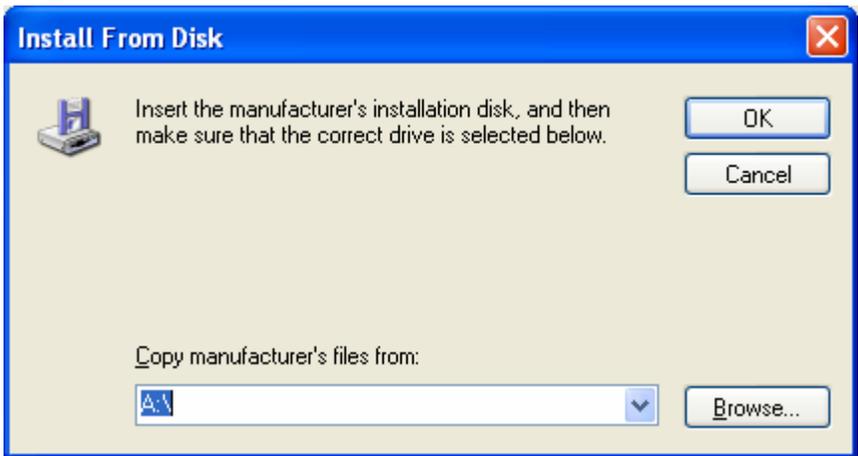
13) "Browse" from "C:\Program Files\Sensoray\314\driver"; select the "s314.inf" to install the 314 Windows driver. Then, click "Open".
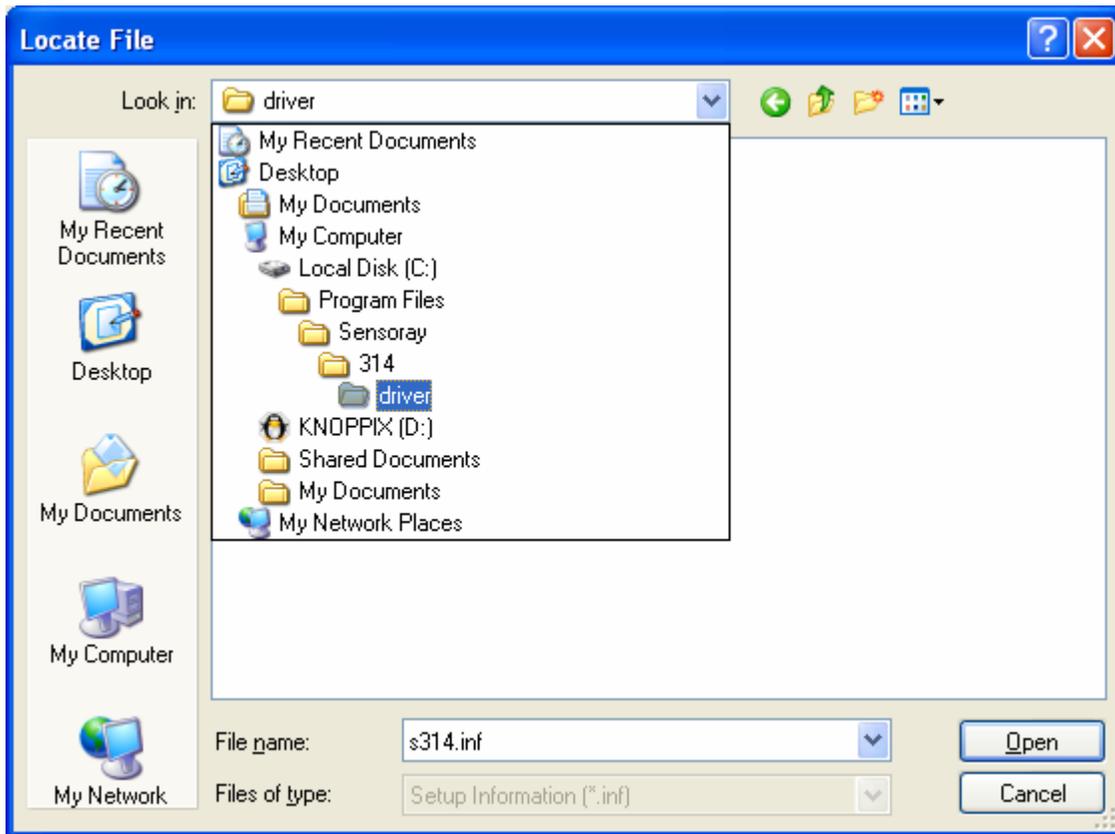
14) Click "OK".
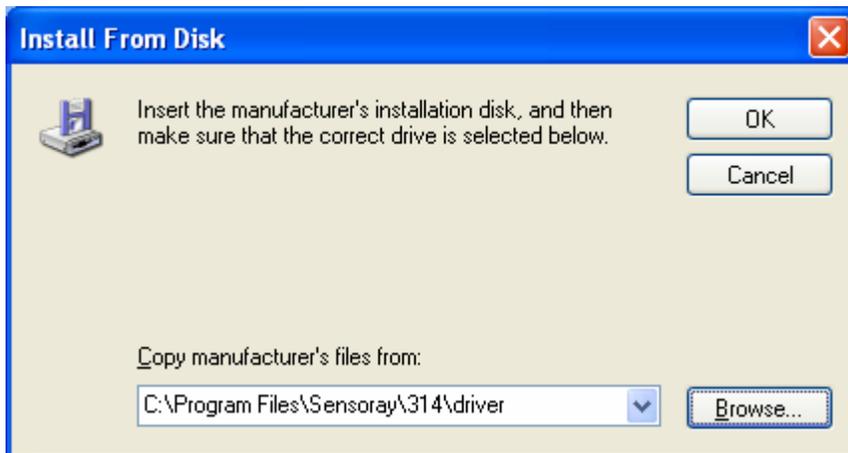
15) "Sensoray 314 A/V Capture" compatible hardware shows up with highlight; Click "Next".
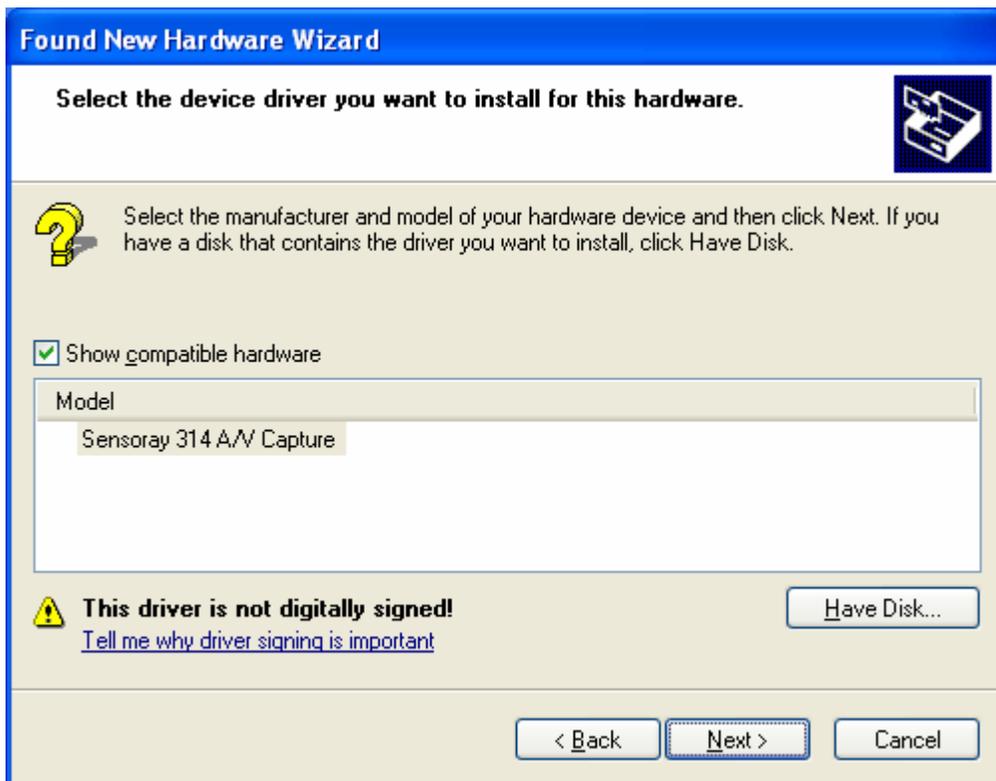
16) Click "Continue Anyway".

17 When the driver installation is finished, click "Finish" to close the Wizard.

18) You will see "Your new hardware is installed and ready to use".

19) Navigate from the "Start | Control Panel | Systems".
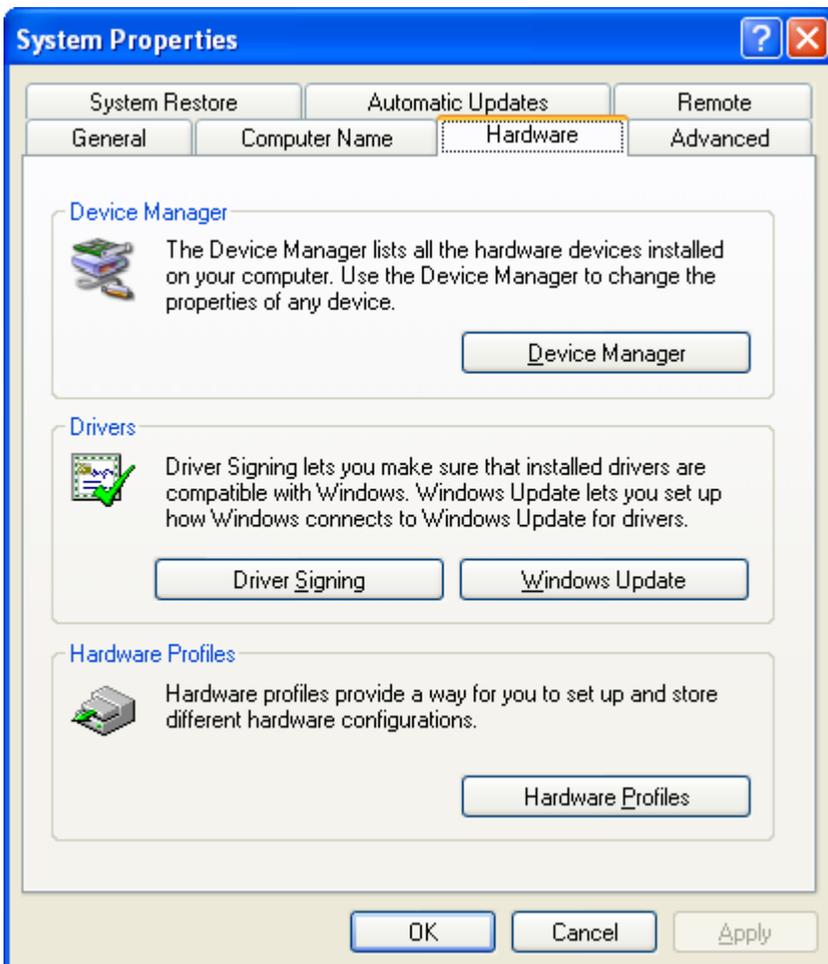
20) Open the "Device Manager" from the "Hardware" tab; Expand "Sound, video and game controllers", you should see "Sensoray 314 A/V Capture" is in this category.
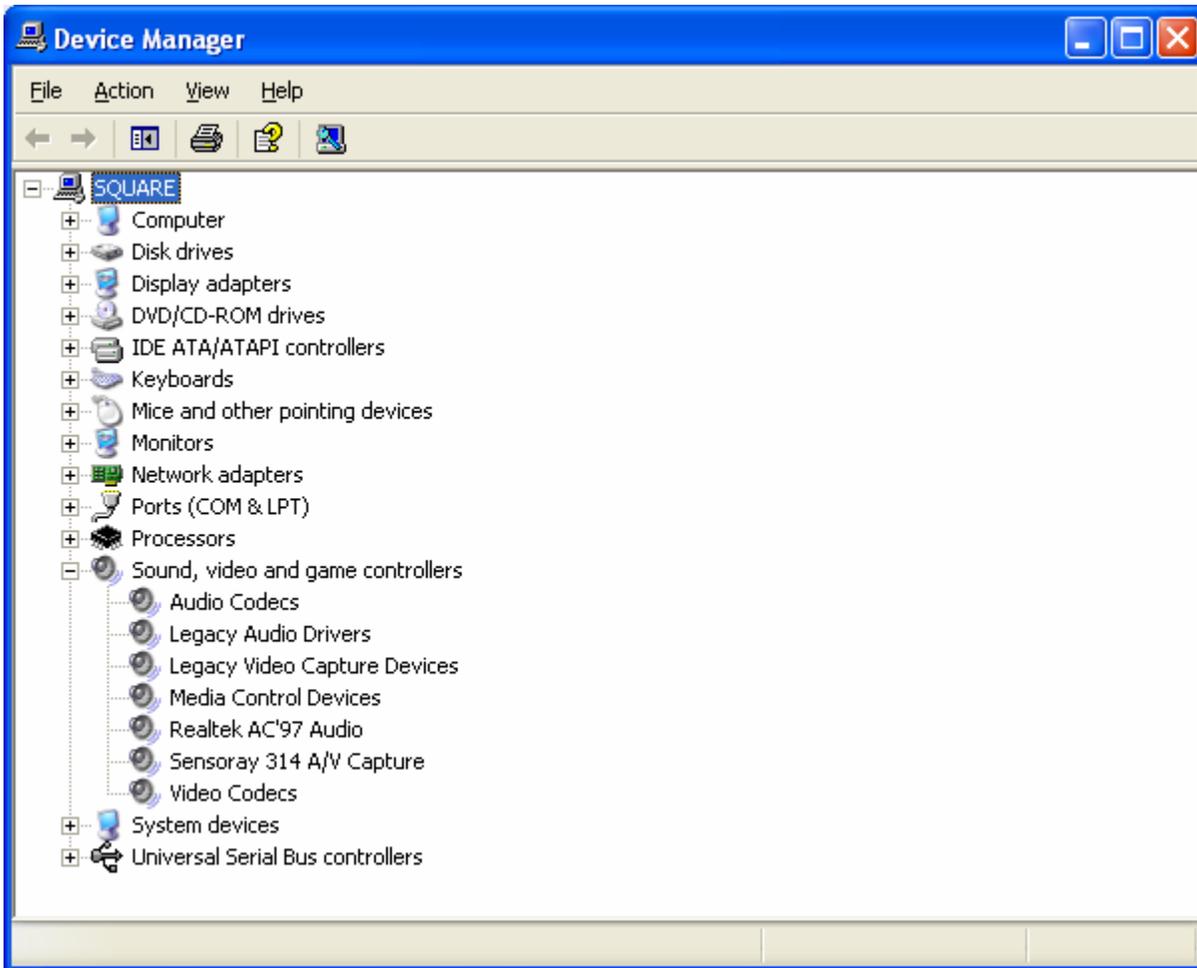
21) Close all windows.

22) Run the "314 Demo Application" from "Start | All Programs | Sensoray 314 SDK | 314 Demo Application". The following window will open:

314 Demo Application

Compression Settings
Bitrate 2000000
○ MPEG1 ○ MPEG2
● MPEG4 ○ MJPEG

Input
Source Composite 0 ▼
○ PAL ● NTSC

Resolution
○ D1 ○ CIF ○ QCIF
● VGA ○ SIF

Render Settings
☑ mute audio(pc)
☑ display video
☐ raw preview ☐ RGB

Levels
Brightness
Contrast
Saturation
Hue   Default

Status
Stopped

Board
Number 0 ▼

Audio Settings
● Line In ☐ AVSync

Preview
Start Stop

Playback Video
Start Pause Stop
Slow FFWD 1x
Refresh
Select File
c:\test.avi

Record
Start Stop
Select File c:\test.avi
○ Audio/Video(MUX)
● Video only (PES)
○ Video only (VES)

Overlay
Sensoray ☐ On
314 ☐ On
Demo ☐ On
Update Clear

Snapshot Stream
Start Stop
○ YUV(YUY2) ● RGB32

Overlay Test
Start Stop

Snapshots
☐ Enable Snapshots
Snapshot File c:\testsnapshot ☑ JPG ☐ BMP
Video Frame Buffer(partial first 5 lines)
GetBuffer
GetMpeg

Motion Detection
MD Stopped
☐ Show Regions ☐ Show Map
Start Stop Configure

Region Stats
Reset
1   0
2   0
3   0

Exit

23) You can change parameters or settings in the window, or stay with the default parameters and settings.

24) Click "Start" from the "Preview" section, to preview the live-video from your video source. The video is based on raw video capture.

314 Demo Application

Compression Settings
Bitrate: 2000000
○ MPEG1 ○ MPEG2
● MPEG4 ○ MJPEG

Input
Source: Composite 0 ▼
○ PAL ● NTSC

Resolution
○ D1 ○ CIF ○ QCIF
● VGA ○ SIF

Render Settings
☑ mute audio(pc)
☑ display video
☐ raw preview ☐ RGB

Levels
Brightness ———
Contrast ———
Saturation ———
Hue ——— [Default]

Audio Settings
● Line In ☐ AVSync

Board
Number: 0 ▼

Status

Preview
[Start] [Stop]

Record
[Start] [Stop]
Select File: c:\test.avi
○ Audio/Video(MUX)
● Video only (PES)
○ Video only (VES)

Snapshot Stream
[Start] [Stop]
○ YUV(YUY2) ● RGB32

Snapshots
☐ Enable Snapshots
Snapshot File: c:\testsnapshot ☑ JPG ☐ BMP
Video Frame Buffer(partial first 5 lines)
[GetBuffer]
[GetMpeg]

Motion Detection
MD Stopped
☐ Show Regions ☐ Show Map
[Start] [Stop] [Configure]

Playback Video
[Start] [Pause] [Stop]
[Slow] [FFWD] 1x
——— [Refresh]
[Select File]
c:\test.avi

Overlay
Sensoray ☐ On
314 ☐ On
Demo ☐ On
[Update] [Clear]

Overlay Test
[Start] [Stop]

Region Stats
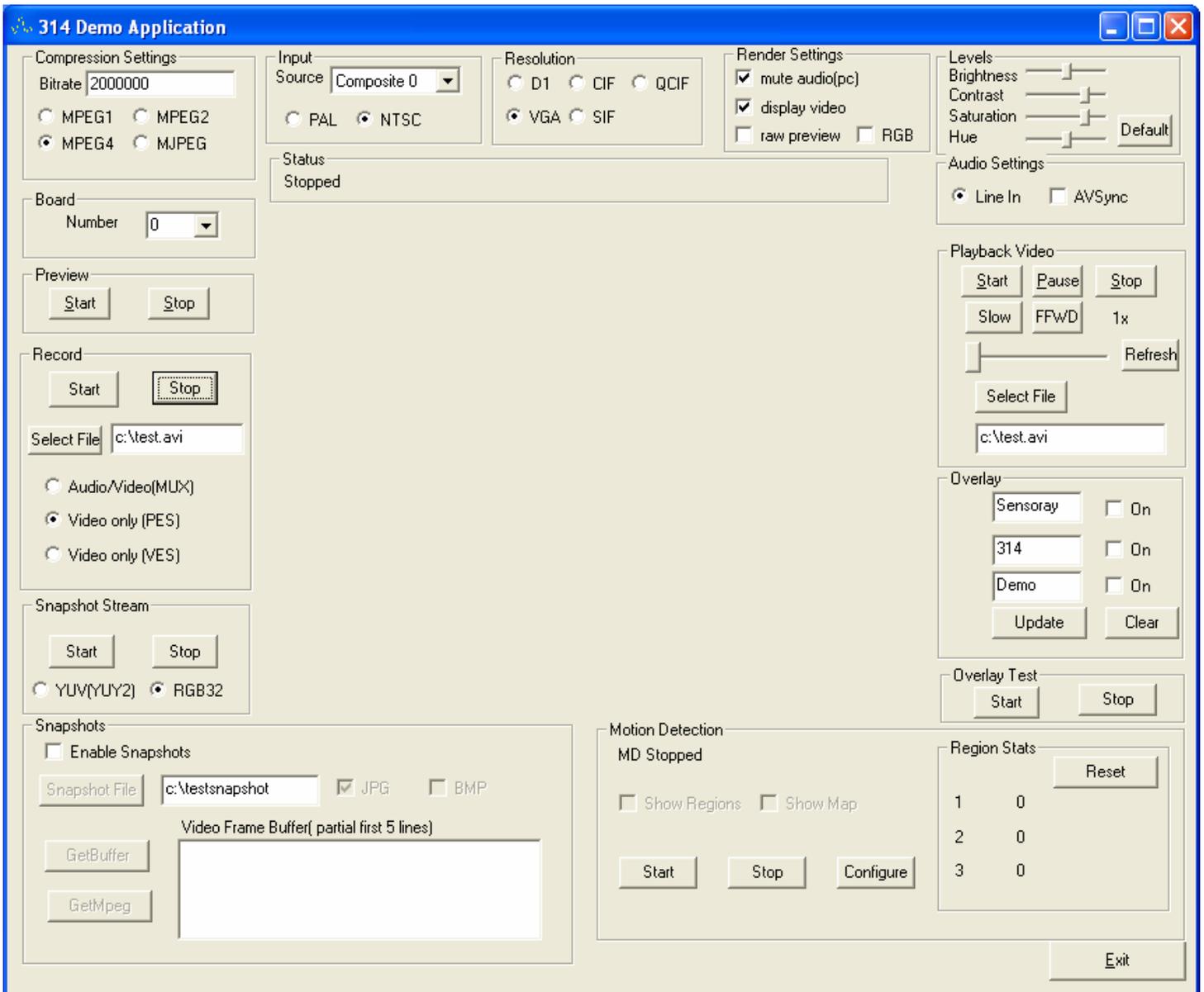[Reset]
1 0
2 0
3 0

[Exit]

25) Click "Stop" in the "Preview" section, to stop the raw-live-video preview.

26) Click "Select File" in the "Record" section, to specify a file name in a desired location; then click "Start" in the "Record" section to start recording/capturing compressed MPEG video.
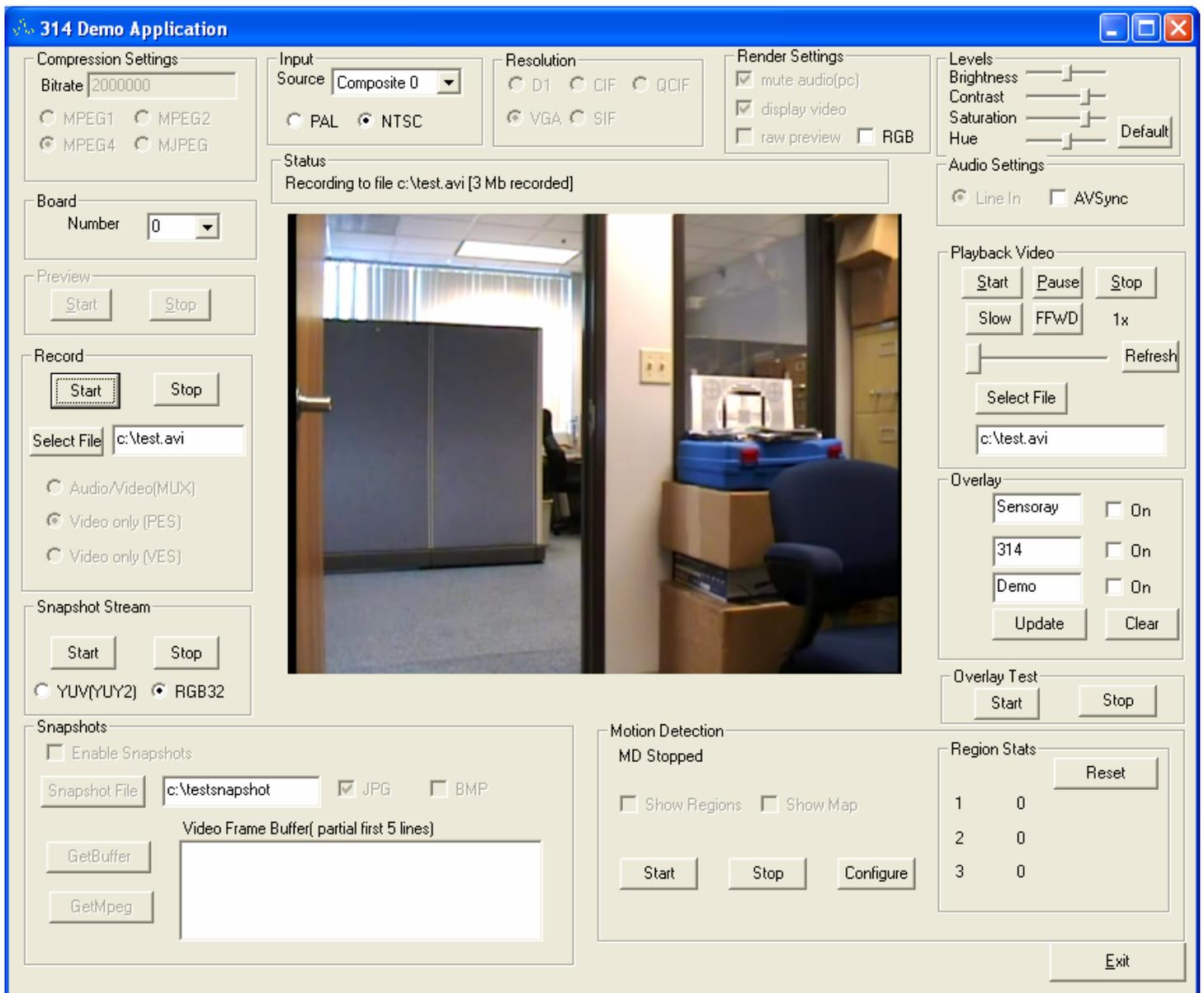
27) Click "Stop" in the "Record" section, to stop the recording.

28) Browse in the folder to find your recorded file. For example, c:\test.avi, the default used in demo. Open the file using Windows Media Player, to play back the recorded MPEG video.

29) Or, go back to the "314 Demo Application" window. From "Select File" in the "Playback video" section, to retrieve the recorded MPEG video file (for example, c:\test.avi), then click "Start" in the "Playback video" section to play back the MPEG video you just recorded.

314 Demo Application

Compression Settings
Bitrate 2000000
○ MPEG1 ○ MPEG2
● MPEG4 ○ MJPEG

Input
Source Composite 0 ▼
○ PAL ● NTSC

Resolution
○ D1 ○ CIF ○ QCIF
● VGA ○ SIF

Render Settings
☑ mute audio(pc)
☑ display video
☐ raw preview ☐ RGB

Levels
Brightness
Contrast
Saturation
Hue
Default

Board
Number 0 ▼

Status
Stopped

Audio Settings
● Line In ☐ AVSync

Preview
Start Stop

Playback Video
Start Pause Stop
Slow FFWD 1x
Refresh
Select File
c:\test.avi

Record
Start Stop
Select File c:\test.avi
○ Audio/Video(MUX)
● Video only (PES)
○ Video only (VES)

Overlay
Sensoray ☐ On
314 ☐ On
Demo ☐ On
Update Clear

Snapshot Stream
Start Stop
○ YUV(YUY2) ● RGB32

Overlay Test
Start Stop

Snapshots
☐ Enable Snapshots
Snapshot File c:\testsnapshot ☑ JPG ☐ BMP
Video Frame Buffer(partial first 5 lines)
GetBuffer
GetMpeg

Motion Detection
MD Stopped
☐ Show Regions ☐ Show Map
Start Stop Configure

Region Stats
Reset
1 0
2 0
3 0

Exit

30) Click "Stop" in the "Playback video" section, to stop the playback.

31) Select "Exit" to close the "314 Demo Application" program.