

MODEL:

HDX-301 Series SDK (Windows)

Software Development Kit (SDK) for
HDC-301MS/HDC-301EL/HDB-301L

User Manual

Revision

Date	Version	Changes
September 9, 2015	1.00	Initial release

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Manual Conventions

**WARNING**

Warnings appear where overlooked details may cause damage to the equipment or result in personal injury. Warnings should be taken seriously.

**CAUTION**

Cautionary messages should be heeded to help reduce the chance of losing data or damaging the product.

**NOTE**

These messages inform the reader of essential but non-critical information. These messages should be read carefully as any directions or instructions contained therein can help avoid making mistakes.

**HOT SURFACE**

This symbol indicates a hot surface that should not be touched without taking care.

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Chapter

1

Driver and SDK Installation

HDx-301 Series SDK (Windows)

1.1 Overview

A CD is shipped with the video capture card. The CD contains a driver for the video capture controllers on the card. When the video capture card is installed on the system, the driver must be installed. Failure to install the driver means that that video capture card cannot be detected by the system.

**NOTE:**

The content of the CD may vary throughout the life cycle of the product and is subject to change without prior notice. Visit the IEI website or contact technical support for the latest updates.

1.2 Driver Installation

**NOTE:**

For the HDC-301EL capture card, the user has to install the Etron USB to PCIe driver to the system before installing the capture card driver. Please refer to **3.2.1 USB to PCIe Driver** in the user manual of the HDC-301EL capture card to install the USB to PCIe driver.

To install the HDx-301 Series driver, please follow the steps below. If the HDx-301 Series driver is already installed, please refer to **Section 1.2.1** to uninstall the driver first.

**NOTE:**

If the **User Account Control** dialog box appears during installation, click **Yes** to continue.

Step 1: Make sure to log in the system as the administrator.

Step 2: Insert the driver CD.

Step 3: Locate the .exe file in the driver folder of the utility CD.

For Windows 7 32-bit OS, please use the **DPIInst_x86.exe** file.

For Windows 7 64-bit OS, please use the **DPIInst_x64.exe** file.

Step 4: Double click the .exe file. The Device Driver Installation Wizard window appears.

Click **Next** to continue.

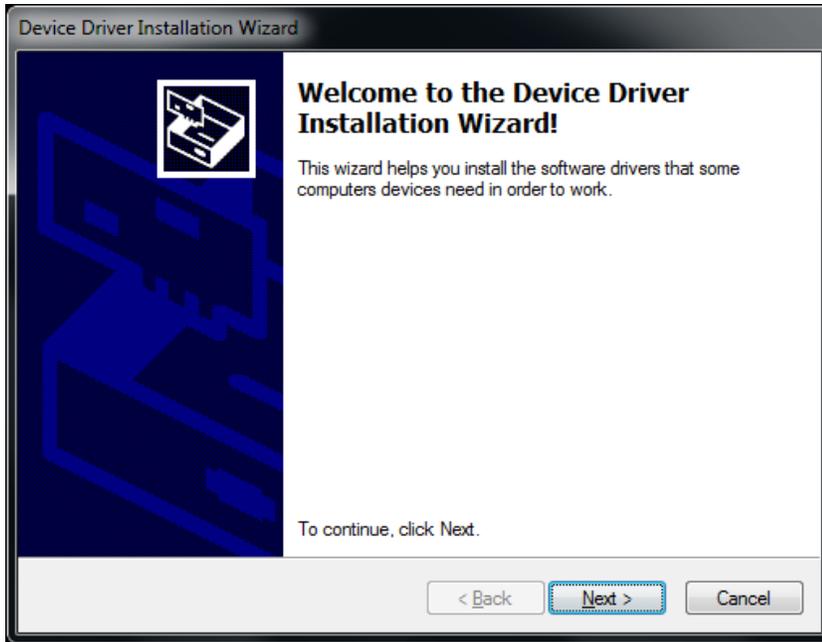


Figure 1-1: Device Driver Installation Wizard Welcome Window

Step 5: The following window appears to confirm the installation. Click **Install**.

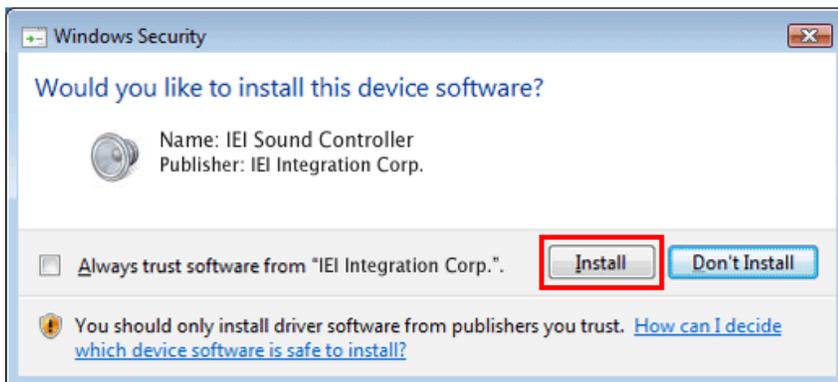


Figure 1-2: Windows Security Window

Step 6: The driver starts to install and the screen in **Figure 1-3** appears.

HDx-301 Series SDK (Windows)

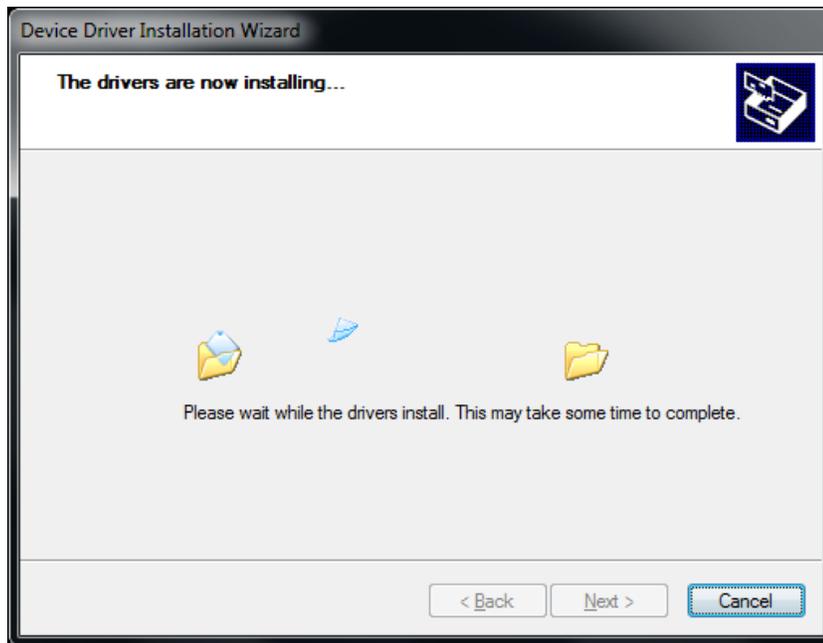


Figure 1-3: Driver Installing

Step 7: When the driver installation is complete, click **Finish** to exit.

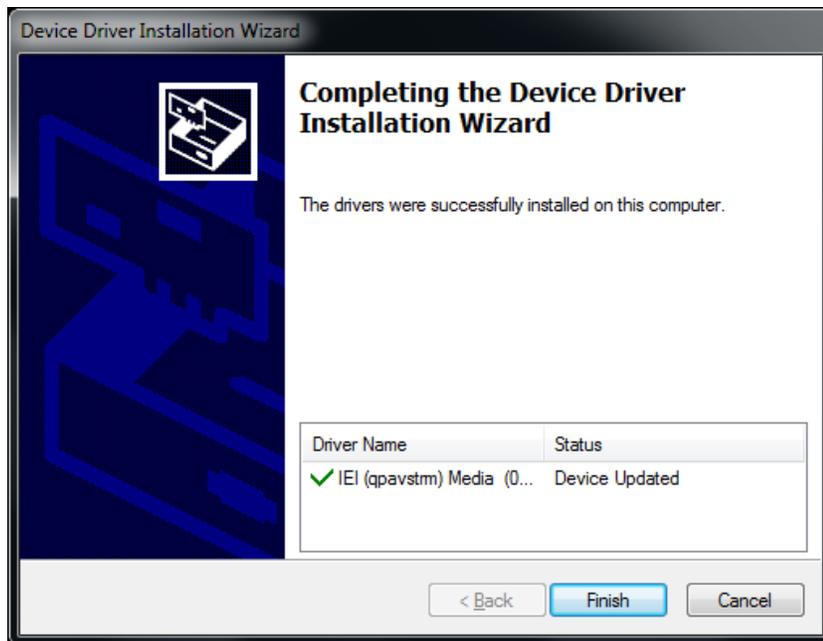
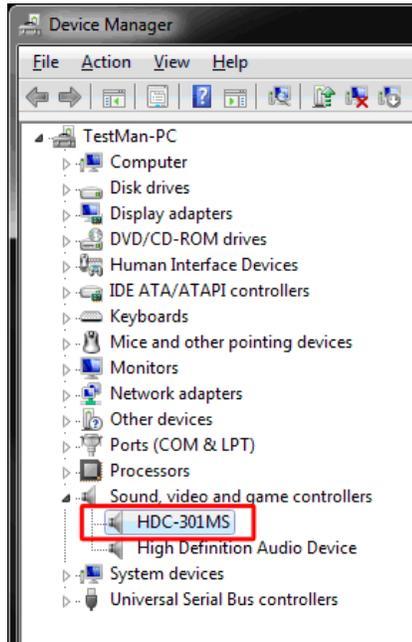


Figure 1-4: Driver Installation Complete

Step 8: Check the Device Manager in the Windows control panel to ensure the HDx-301 Series driver has been properly installed.

Single Card:



Multiple Cards:

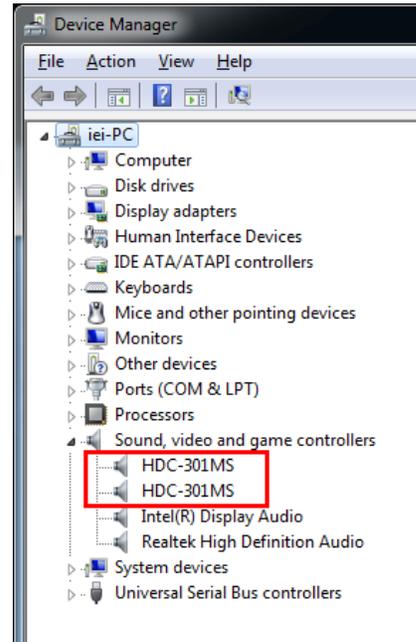


Figure 1-5: Device Manager



NOTE:

If the user fails to install the driver by following the above procedure, please install the HDx-301 Series driver manually in the Device Manager. To do this, right click HDC-301MS/HDC-301EL/HDB-301L in the Device Manager, and select Update Driver Software. Then, specify the **DPInst_x86.exe** or **DPInst_x64.exe** file in the utility CD for installation.

1.2.1 Uninstall Driver

To uninstall the driver, please follow the steps below.

Step 1: Make sure to login the system as the administrator.

Step 2: Go to **Device Manager**.

Step 3: Right click HDC-301MS/HDC-301EL/HDB-301L in the Device Manager, and select **Uninstall** to uninstall the driver.

HDx-301 Series SDK (Windows)

1.3 SDK Installation

The HDx-301 Series comes with a video capture application – IEI HD Capture AP SDK.

This section describes how to install the SDK in Windows environment.

1.3.1 System Requirements

The supported OS versions are listed below:

- Microsoft Windows 7, 32-bit
- Microsoft Windows 7, 64-bit

After installing the driver, the following programs must be installed in order to use the IEI HD Capture AP SDK:

- Microsoft DirectX 11
- H.264 Codec (VLC, ffdshow)
- Visual C++ 2005 & 2008 Redistributable

Please download the setup files of these programs from the official websites and install these programs in the system. For detailed setup procedures for some of the above programs, please refer to **Appendix B**.

1.3.2 IEI HD Capture AP SDK Installation

To install the IEI HD Capture AP SDK, please follow the steps below.



NOTE:

If the **User Account Control** dialog box appears during installation, click **Yes** to continue.

Step 1: Insert the driver CD. Double click the AP folder of the utility CD.

Step 2: Locate the **IEI_HD_Capture_AP.exe** file in the **Release** folder.

Step 3: Double click the **IEI_HD_Capture_AP.exe** file. The IEI HD Capture AP Setup Wizard appears. Click **Next** to start.



Figure 1-6: IEI HD Capture AP Setup Wizard Welcome Window

Step 4: Select a folder for IEI HD Capture AP SDK installation in **Figure 1-7**. Click **Next** to continue.

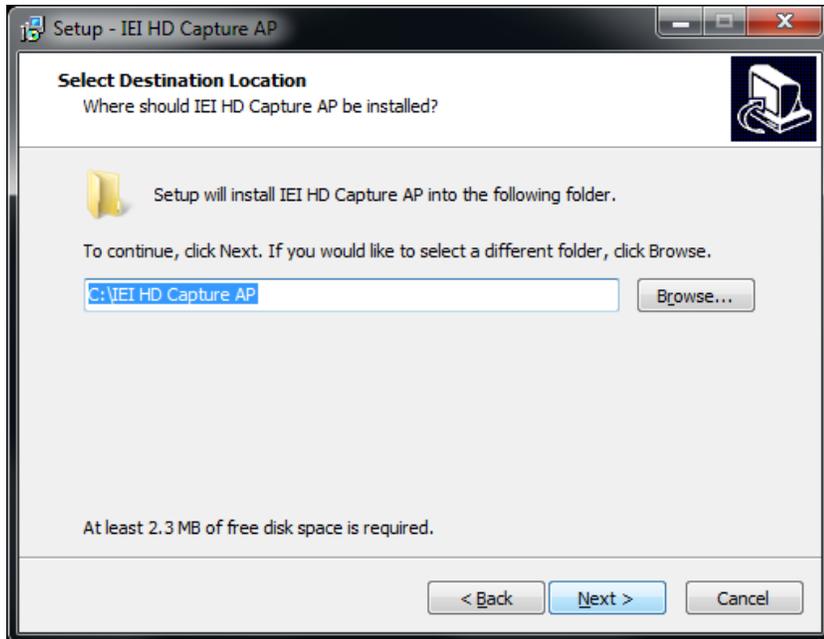


Figure 1-7: Select Installation Folder

HDx-301 Series SDK (Windows)

Step 5: The following screen appears. Click **Install** to confirm the installation.

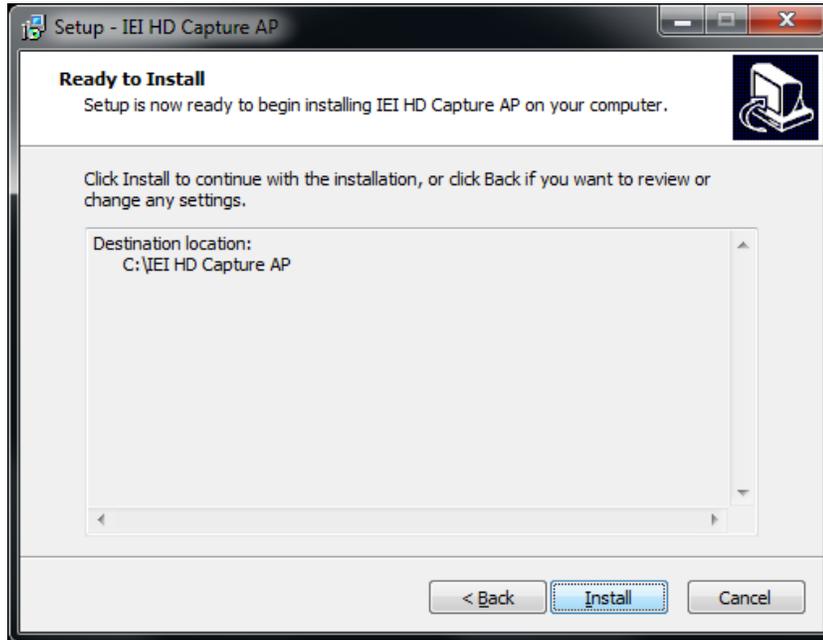


Figure 1-8: Confirm Installation

Step 6: The system starts installing the IEI HD Capture AP SDK.

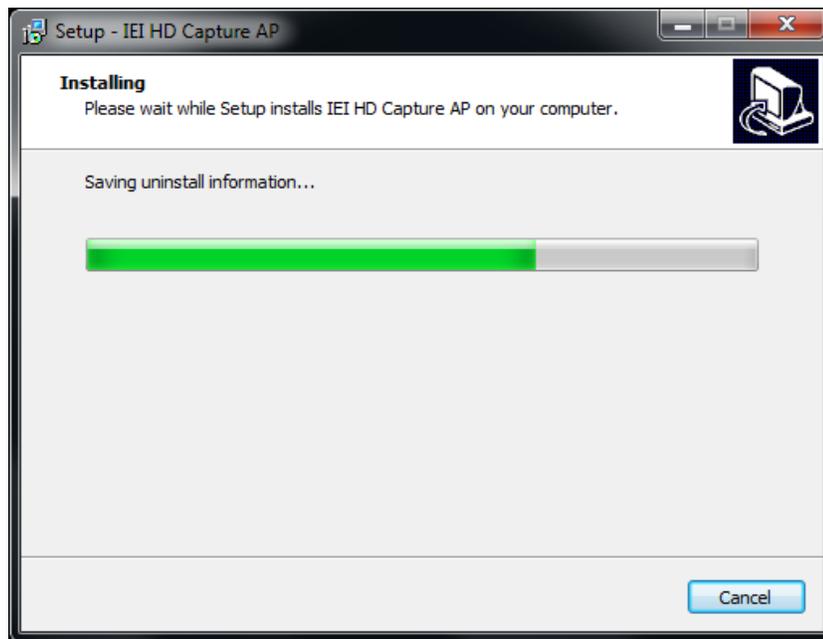


Figure 1-9: Installing IEI HD Capture AP SDK

Step 7: When the IEI HD Capture AP SDK is successfully installed, the following window appears. Click **Finish** to exit.



Figure 1-10: Installation Complete

1.3.3 Uninstall IEI HD Capture AP SDK

To uninstall the IEI HD Capture AP SDK, follow the steps below.

Step 1: Click **Uninstall IEI HD Capture AP** from the Windows **Start** menu (**Figure 1-11**).

HDx-301 Series SDK (Windows)

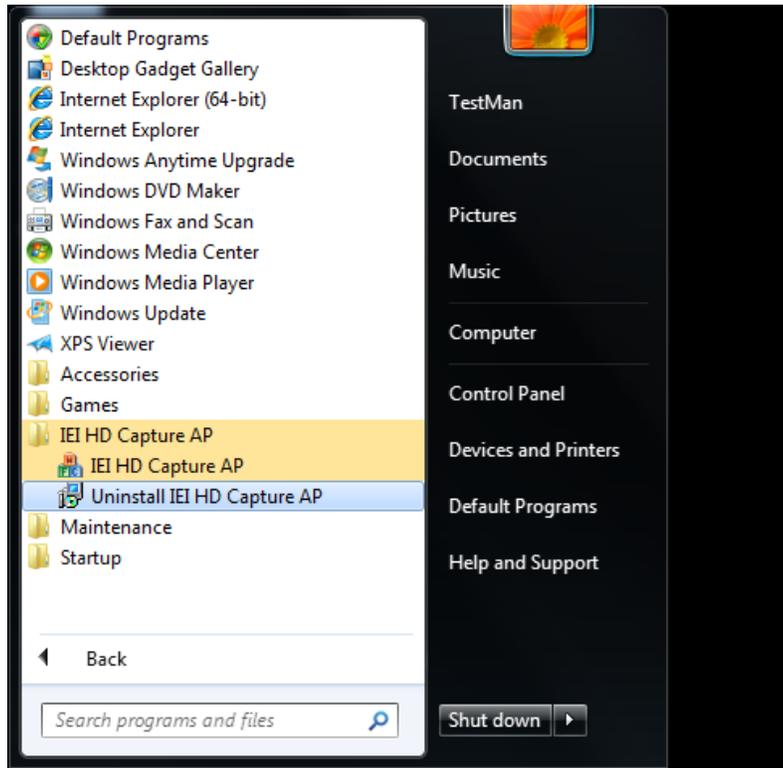


Figure 1-11: Uninstall IEI HD Capture AP SDK

Step 2: A confirmation window appears. Click **Yes** to uninstall the IEI HD Capture AP SDK (Figure 1-12).

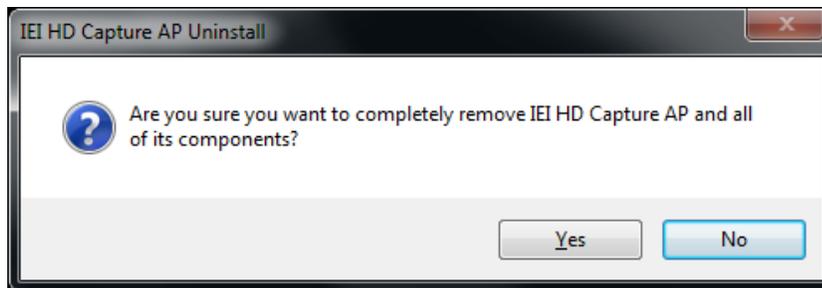


Figure 1-12: Confirm to Uninstall

Step 3: The system starts uninstalling the IEI HD Capture AP SDK.

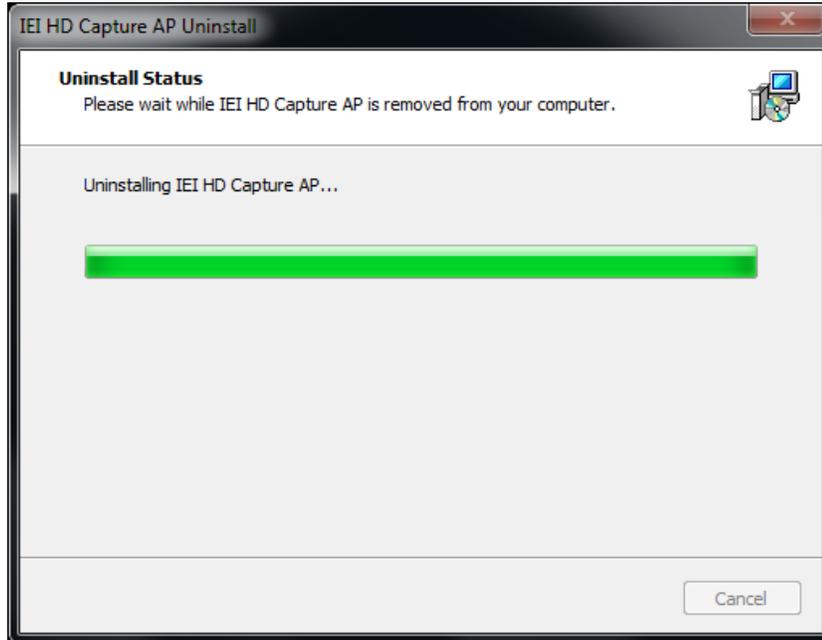


Figure 1-13: Uninstalling IEI HD Capture AP SDK

Step 4: The screen in **Figure 1-14** appears, indicating that IEI HD Capture AP SDK is removed from the computer. Click **OK** to exit.

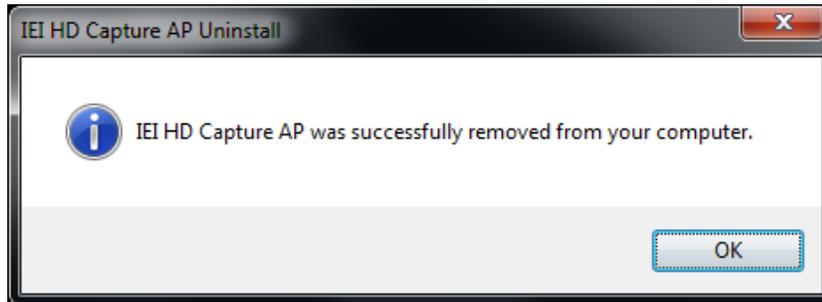


Figure 1-14: IEI HD Capture AP SDK is Uninstalled

Chapter

2

IEI HD Capture AP SDK

2.1 IEI HD Capture AP SDK Overview

The IEI HD Capture AP SDK is a video capture tool that allows the user to capture video through the HDMI input ports in Windows environment.

To use the IEI HD Capture AP SDK to capture video, follow the steps below. If the older version of the IEI HD Capture AP SDK is already installed, please refer to **Section 1.3.3** to uninstall it.

Step 1: Launch the IEI HD Capture AP SDK by double-clicking the **IEI_HD_Capture_AP.exe** file under the “X:\IEI_HD_Capture_AP\Release” directory, where “X:\” is the system CD drive.

Step 2: The IEI HD Capture AP SDK user interface appears (**Figure 2-1**). Click the **Set** button to configure the settings.

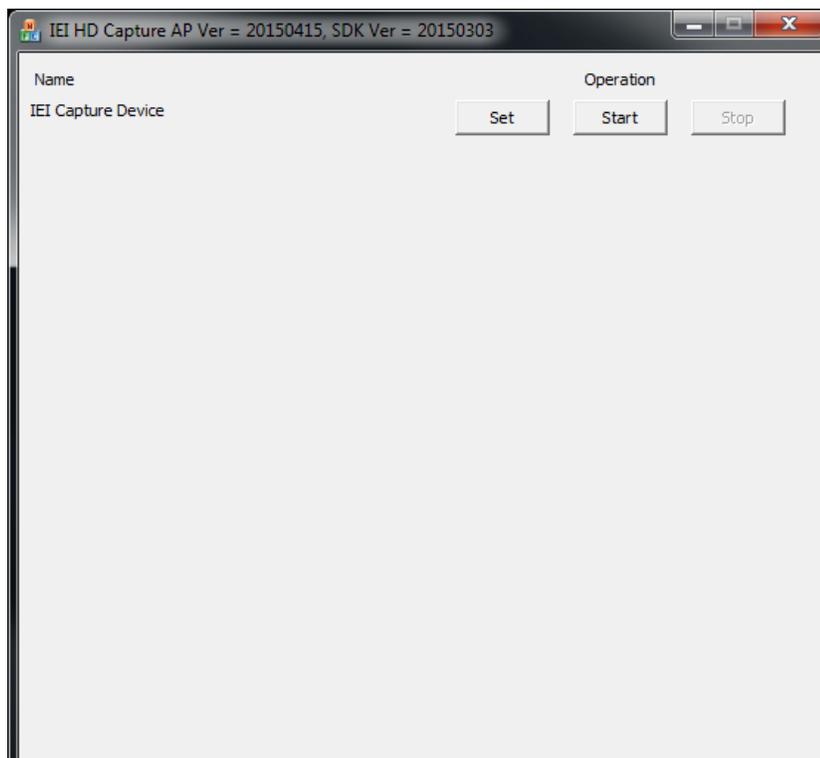


Figure 2-1: IEI HD Capture AP SDK

Step 3: The Encode Setting window appears (**Figure 2-2**). Make necessary configuration setting by following the guideline below:

HDx-301 Series SDK (Windows)

- **Audio**
 - Enable: check to enable the audio encoding
 - Sample Rate: select the sample rate of the audio
 - Volume: select the volume amount for encoding
- **Video**
 - Input Resolution: select a video input resolution which depends on the video device.
 - Encode Resolution: select an encoding resolution. The encoding resolution selected here must be same with the one selected in the Input Resolution.
 - Encode Bit Rate: select a video encoding bitrate

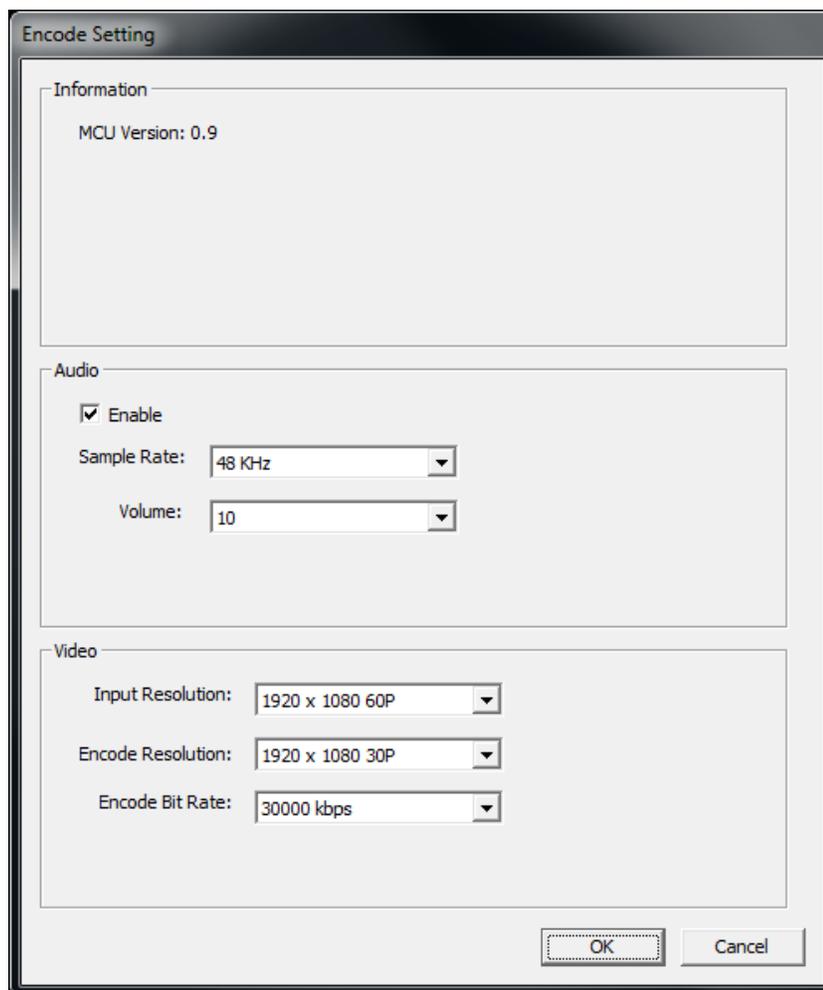


Figure 2-2: Encode Setting

Step 4: After finishing the setting configuration, click **OK** to save the settings.

Step 5: To start capturing the video, click the **Start** button on the IEI HD Capture AP SDK user interface. The Save As window appears. Specify a location to save the encoded video file, and change the file name as necessary. Click **Save** to start capturing the video.

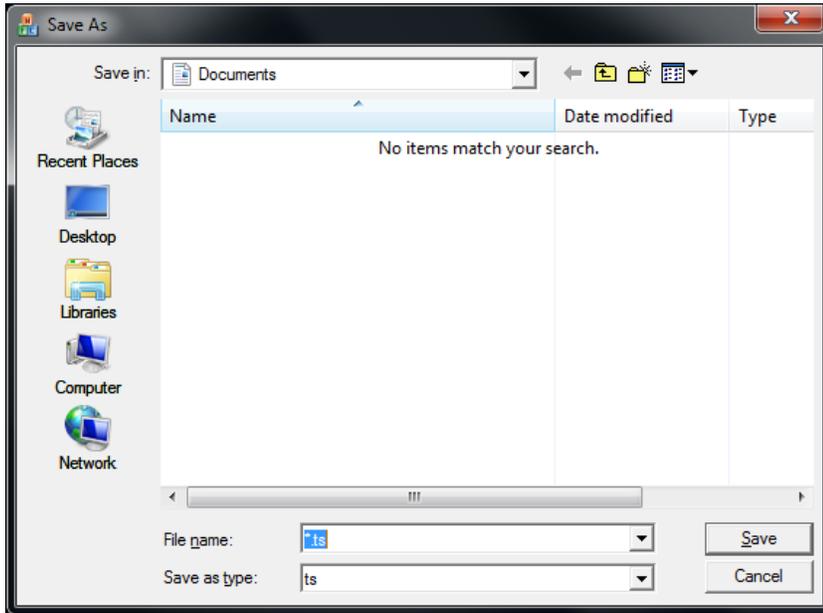


Figure 2-3: Save As Window

Step 6: To stop capturing the video, click the **Stop** button on the IEI HD Capture AP SDK user interface.

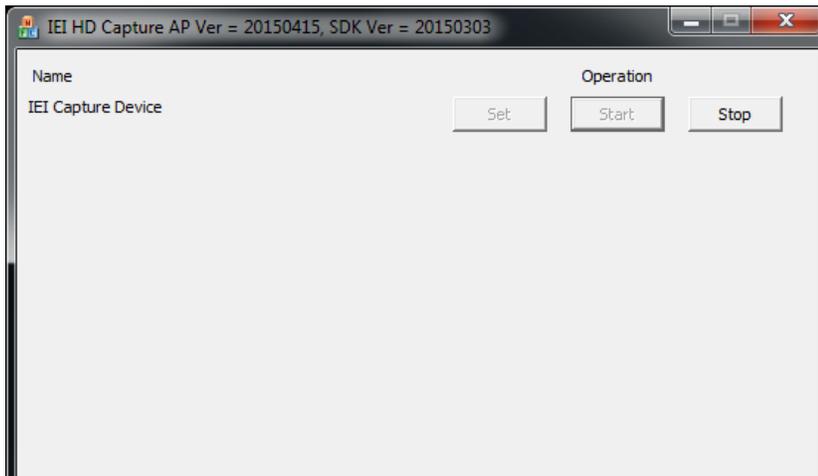


Figure 2-4: IEI HD Capture AP SDK – Stop Button

Chapter

3

SDK Introduction

3.1 Build Environment

The SDK build environment requirements are listed below. If build environment is not Microsoft Visual Studio 2005 SP1 or latter, you need to install Microsoft Visual C++ 2005 SP1 Redistributable Package (x86).

- Microsoft Windows 7 32-bit/64-bit
- DirectX SDK – August 2007
- Windows SDK for Windows Vista (6.0.6000)
- Microsoft Visual Studio 2005 SP1

3.2 SDK Introduction

The following sections are the brief introduction of the SDK. You can find the details and usages in the sample code.

3.2.1 Definition Table

HDMI Receiver Resolution		
Name	Value	Description
IEI_HDC_SDK_M_UNKNOW_FRMT	1	Unknown format
IEI_HDC_SDK_M_NO_SIGNAL	2	No input signal
IEI_HDC_SDK_M_640_480P_60	3	640 x 480 60P
IEI_HDC_SDK_M_720_480P_60	4	720 x 480 60P
IEI_HDC_SDK_M_720_576P_50	5	720 x 576 50P
IEI_HDC_SDK_M_800_600P_60	6	800 x 600 60P
IEI_HDC_SDK_M_1024_768P_60	7	1024 x 768 60P
IEI_HDC_SDK_M_1280_720P_50	8	1280 x 720 50P
IEI_HDC_SDK_M_1280_720P_60	9	1280 x 720 60P
IEI_HDC_SDK_M_1280_768P_60	10	1280 x 768 60P
IEI_HDC_SDK_M_1280_800P_60	11	1280 x 800 60P
IEI_HDC_SDK_M_1280_1024P_60	12	1280 x 1024 60P
IEI_HDC_SDK_M_1360_768P_60	13	1360 x 768 60P
IEI_HDC_SDK_M_1440_900P_60	14	1440 x 900 60P
IEI_HDC_SDK_M_1680_1050P_60	15	1680 x 1050 60P
IEI_HDC_SDK_M_1920_1080I_50	16	1920 x 1080 50I

HDx-301 Series SDK (Windows)

IEI_HDC_SDK_M_1920_1080I_60	17	1920 x 1080 60I
IEI_HDC_SDK_M_1920_1080P_24	18	1920 x 1080 24P
IEI_HDC_SDK_M_1920_1080P_25	19	1920 x 1080 25P
IEI_HDC_SDK_M_1920_1080P_30	20	1920 x 1080 30P
IEI_HDC_SDK_M_1920_1080P_50	21	1920 x 1080 50P
IEI_HDC_SDK_M_1920_1080P_60	22	1920 x 1080 60P

Audio Sample Rate		
Name	Value	Description
IEI_HDC_SDK_AUDIO_SAMPLE_RATE_44_1K	0	Input audio is 44.1 kHz
IEI_HDC_SDK_AUDIO_SAMPLE_RATE_48K	1	Input audio is 48 kHz

Video Scan Format		
Name	Value	Description
IEI_HDC_SDK_SCAN_FORMAT_INTERLACE	0	Input format is interlaced
IEI_HDC_SDK_SCAN_FORMAT_PROG	1	Input format is progressive

3.2.2 Structure Definition

```
typedef struct _IEI_HDC_SDK_Param_T
{
    bool            bAudioEnabled;
    unsigned int    uiAudioSampleRate;
    unsigned int    uiAudioVolume;
    unsigned int    uiVideoInputWidth;
    unsigned int    uiVideoInputHeight;
    unsigned int    uiVideoInputFrameRate;
    unsigned int    uiVideoInputScanFormat;
    unsigned int    uiVideoEncodeWidth;
    unsigned int    uiVideoEncodeHeight;
    unsigned int    uiVideoEncodeFrameRate;
    unsigned int    uiVideoAvgBitRate;
    unsigned int    uiVideoMinBitRate;
    unsigned int    uiVideoMaxBitRate;
} IEI_HDC_SDK_Param_T;
```

Structure Member	Data Type	Description
bAudioEnabled	bool	true: Audio enable false: Audio disable
uiAudioSampleRate	unsigned int	Audio sample rate, reference to definition table of Audio Sample Rate
uiAudioVolume	unsigned int	Audio volume, it should be 0 ~ 15
uiVideoInputWidth	unsigned int	Input video width
uiVideoInputHeight	unsigned int	Input video height
uiVideoInputFrameRate	unsigned int	Input video frame rate
uiVideoInputScanFormat	unsigned int	Input video format, reference to definition table of Video Scan Format
uiVideoEncodeWidth	unsigned int	Encode video width
uiVideoEncodeHeight	unsigned int	Encode video height
uiVideoEncodeFrameRate	unsigned int	Encode video frame rate
uiVideoAvgBitRate	unsigned int	Encode video average bit rate, it should be 1000 kbps ~ 30000 kbps
uiVideoMinBitRate	unsigned int	Encode video minimum bit rate, it should be 1000 kbps ~ 30000 kbps
uiVideoMaxBitRate	unsigned int	Encode video maximum bit rate, it should be 1000 kbps ~ 30000 kbps

HDx-301 Series SDK (Windows)

3.2.3 API Introduction

Prototype	int IEI_HDC_SDK_GetVersion ()
Description	Get SDK version
Parameter	No parameter
Return	Integer: Version in YYYYMMDD

Prototype	HRESULT IEI_HDC_SDK_InitializeFilterParam (void* in_pFilter)
Description	Initialize source filter parameters
Parameter	in_pFilter: Pointer of source filter
Return	HRESULT: E_ACCESSDENIED means AES failed(*1) For other values, please check in MSDN

Prototype	HRESULT IEI_HDC_SDK_GetFilterParam (void* in_pFilter, IEI_HDC_SDK_Param_T* ot_pParam)
Description	Get source filter parameters
Parameter	in_pFilter: Pointer of source filter ot_pParam: Pointer of IEI_HDC_SDK_Param_T It returns current source filter parameters
Return	HRESULT: E_ACCESSDENIED means AES failed(*1) For other values, please check in MSDN

Prototype	HRESULT IEI_HDC_SDK_SetFilterParam (void* in_pFilter, IEI_HDC_SDK_Param_T* in_pParam)
Description	Set source filter parameters
Parameter	in_pFilter: Pointer of source filter in_pParam: Pointer of IEI_HDC_SDK_Param_T It should contain the parameters which you want to set
Return	HRESULT: E_ACCESSDENIED means AES failed(*1) For other values, please check in MSDN

Prototype	HRESULT IEI_HDC_SDK_GetMCUVersion (void* in_pFilter, int* ot_ipVer, int* ot_ipReVer)
Description	Get MCU version
Parameter	in_pFilter: Pointer of source filter ot_ipVer: Integer pointer of version ot_ipReVer: Integer pointer of reversion
Return	HRESULT: E_ACCESSDENIED means AES failed(*1) For other values, please check in MSDN

HDx-301 Series SDK (Windows)

Prototype	HRESULT IEI_HDC_SDK_GetHDMIRXResolution (void* in_pFilter, int* ot_ipHDMIRes)
Description	Get HDMI receiver resolution
Parameter	in_pFilter: Pointer of source filter ot_ipHDMIRes: Integer pointer of resolution value Reference to HDMI Receiver Resolution Table
Return	HRESULT: E_ACCESSDENIED means AES failed(*1) For other values, please check in MSDN

***1: If AES failed, please check if device, firmware, driver, SDK and AP are compatible or not.**

Appendix

A

FAQ

HDx-301 Series SDK (Windows)

Q: How do I play the encoding file?

A: The encoding file is H.264 format. You need to use media player or codec which supports H.264 format, such as VLC or ffdshow.

Q: Where are the AP, SDK and sample code located?

A: The AP, SDK and sample code are located in the folder where you specified during installation. The default installation path is C:\IEI HD Capture AP.

Q: How do I check the current DirectX version?

A: In Windows, navigate to Start → Run → Type 'dxdiag' → Enter. The current version is displayed in the DirectX Diagnostic Tool window.

Q: How do I obtain the latest driver?

A: Go to <http://www.ieiworld.com/>. You can always find and download the latest drivers from the "Support" pages.

Appendix

B

Decoder Installation

HDx-301 Series SDK (Windows)

B.1 Decoder Installation

This section provides the setup procedures of the following decoders:

- ffdshow
- Leadtools
- MainConcept

Installing ONE of the above decoders is highly recommended.



NOTE:

If other decoder is already installed, it is recommended to uninstall it first.

B.1.1 ffdshow

Follow the steps below to proceed with the ffdshow setup procedures.

Step 1: Go to <http://sourceforge.net/projects/ffdshow-tryout/?source=directory> to download the ffdshow setup file.

Step 2: Make sure to login the system as the administrator.

Step 3: Double click the setup file. The Select Setup Language screen appears (**Figure B-1**). Select the setup language, and then click **OK**.



Figure B-1: Select Setup Language

Step 4: The Setup screen appears (**Figure B-2**). Click **Next** to continue.

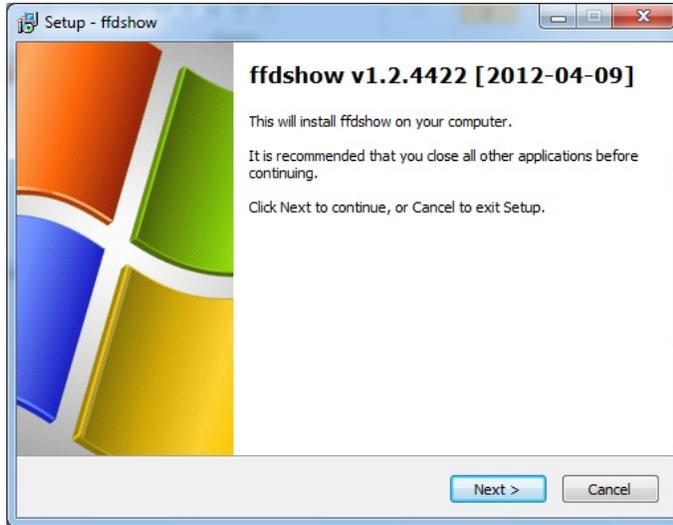


Figure B-2: Setup Screen

Step 5: Select a folder for ffdshow installation (**Figure B-3**). Click **Next** to continue.



Figure B-3: Select Destination Location

Step 6: Select the components to be installed (**Figure B-4**). Click **Next** to continue.

HDx-301 Series SDK (Windows)

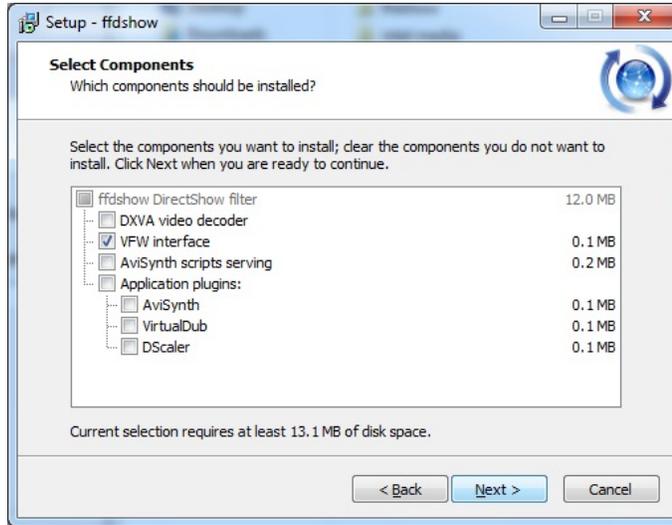


Figure B-4: Select Components

Step 7: Select a Start Menu folder where to place the ffdshow shortcuts (**Figure B-5**).

Click **Next** to continue.

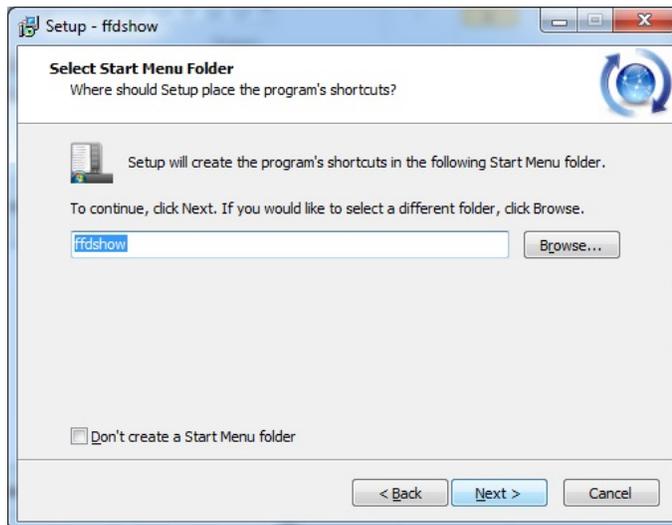


Figure B-5: Select Start Menu Folder

Step 8: Select the additional tasks to be performed (**Figure B-6**). Make sure that the **libavcodec** item in the **H.264 / AVC** field is selected. Click **Next** to continue.

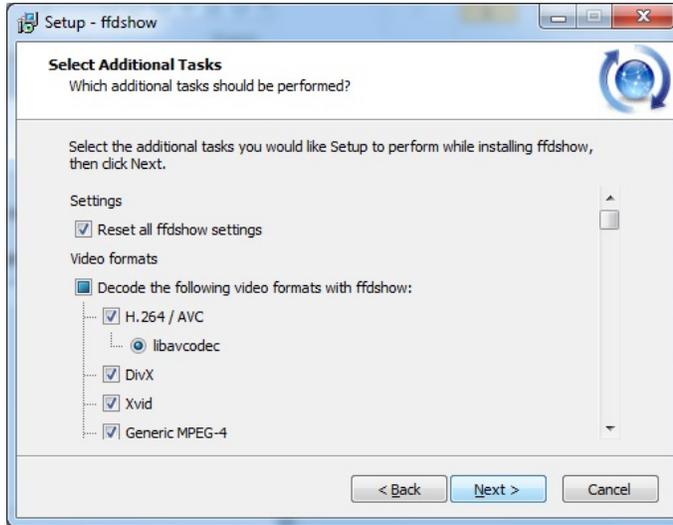


Figure B-6: Select Additional Tasks

Step 9: Select the speaker setup (**Figure B-7**). Click **Next** to continue.

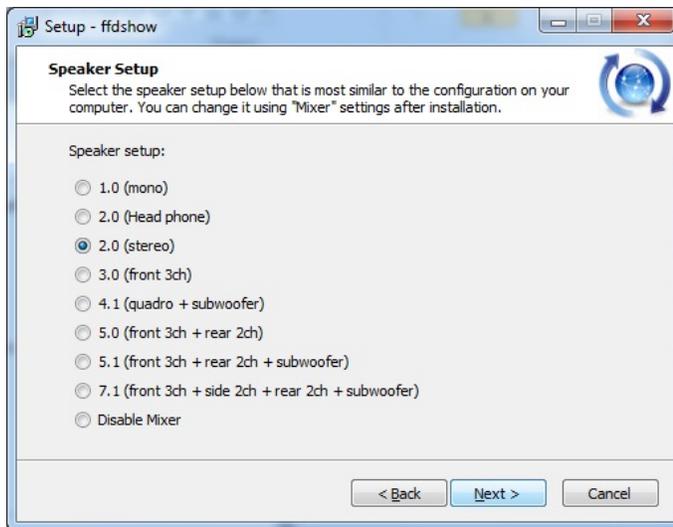


Figure B-7: Speaker Setup

Step 10: The following screen appears. Click **Install** to start the installation.

HDx-301 Series SDK (Windows)

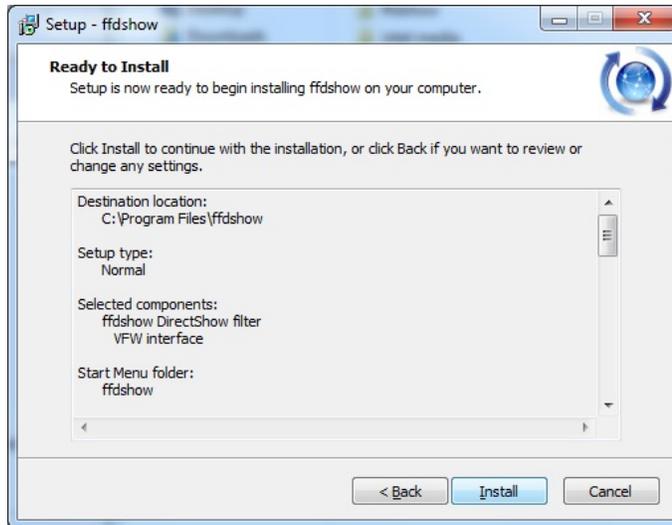


Figure B-8: Ready to Install

Step 11: The system starts installing the ffdshow.

Step 12: When the ffdshow is completely installed, the following screen appears. Click **Finish** to exit.



Figure B-9: Complete ffdshow Setup

Step 13: Go to **Control Panel > Programs > Programs and Features** to ensure the ffdshow has been properly installed. See **Figure B-10** for the details.

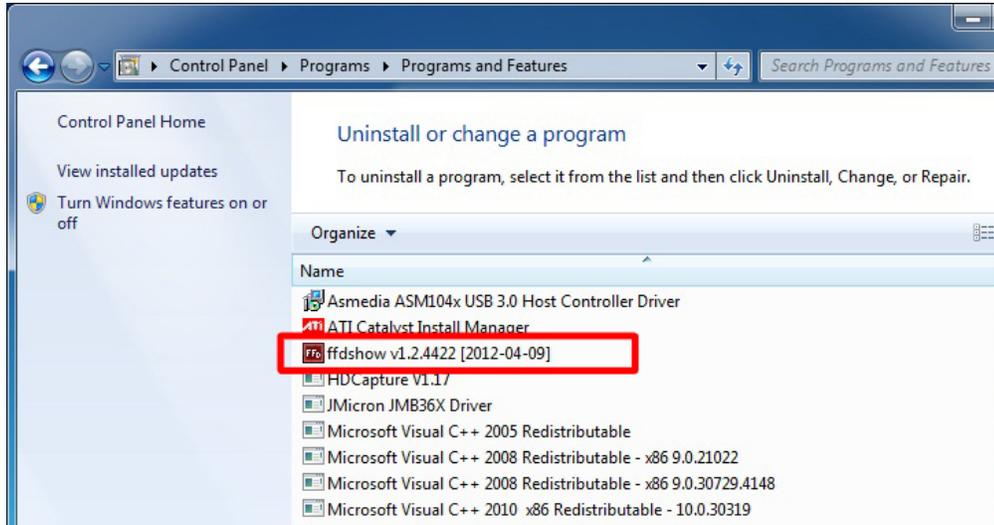


Figure B-10: Control Panel – ffdshow

Step 14: Launch the ffdshow video decoder configuration from the Windows **Start** menu
> **All Programs > ffdshow > Video decoder configuration (Figure B-11).**

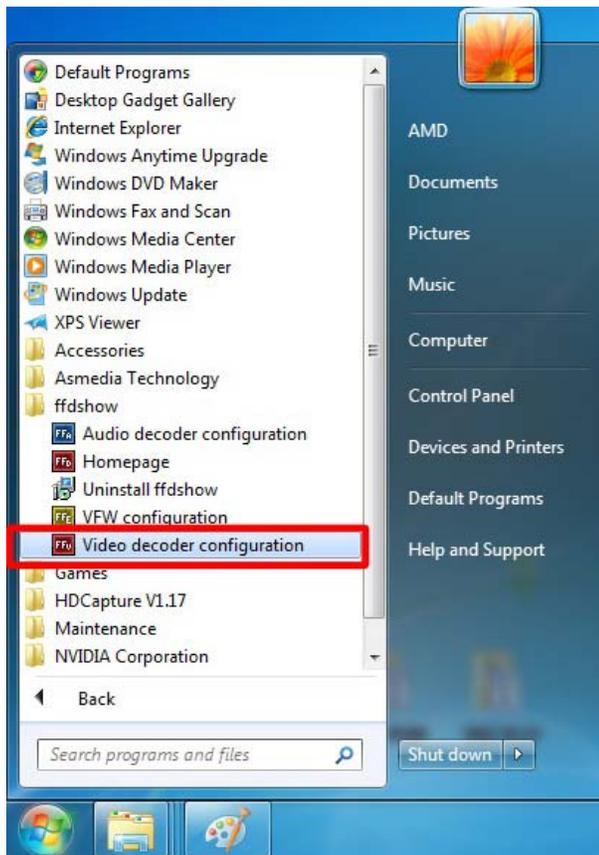


Figure B-11: Windows Start Menu – ffdshow

HDx-301 Series SDK (Windows)

Step 15: Make sure the **libavcodec** item in the **H.264/AVC** field is selected (**Figure B-12**).

Click **OK** to exit the configuration window.

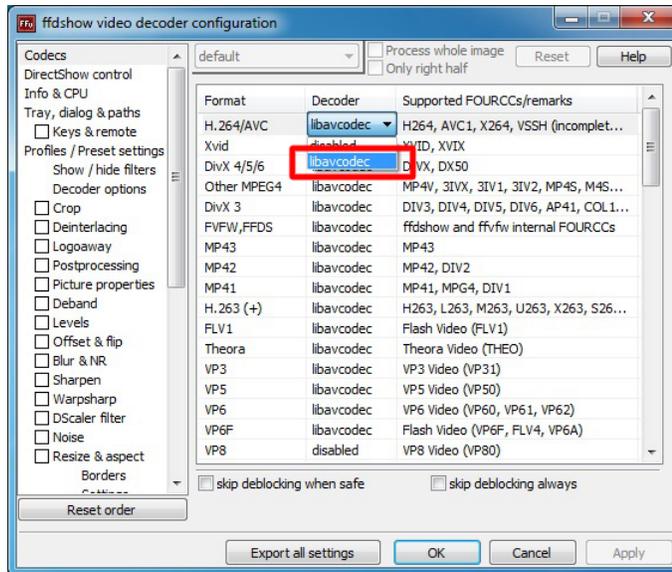


Figure B-12: ffdshow Video Decoder Configuration

B.1.2 LEADTOOLS

Follow the steps below to proceed with the LEADTOOLS setup procedures.

Step 1: Go to <http://www.leadtools.com/> to download the LEADTOOLS setup file.

Step 2: Make sure to login the system as the administrator.

Step 3: Double click the setup file.

Step 4: Specify the path to which the setup file will be extracted (**Figure B-13**). Click **OK** to continue.

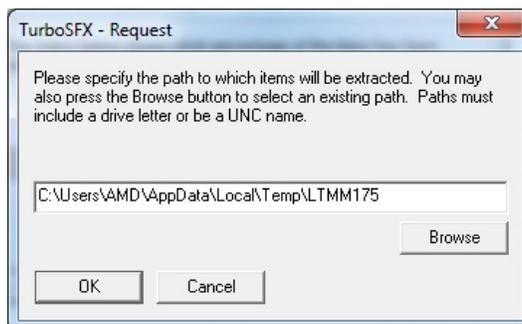


Figure B-13: Specify Extraction Path

Step 5: If the below screen appears, click **Yes** to continue.

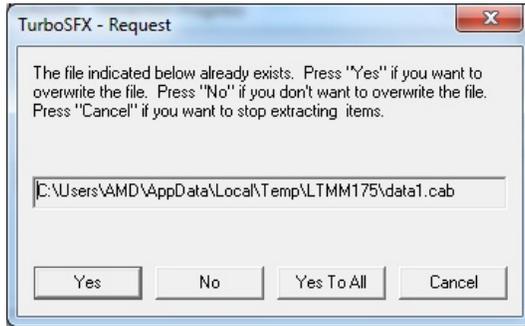


Figure B-14: Overwrite the Indicated File

Step 6: The extraction progress is shown as below.

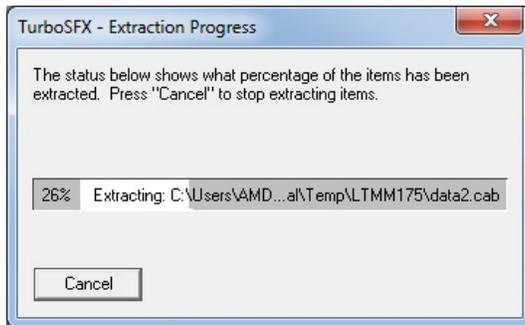


Figure B-15: Extracton Progress

Step 7: When the setup file is completely extracted, the **LEADTOOLS Installation Wizard** appears (**Figure B-16**). Click **Next** to continue.

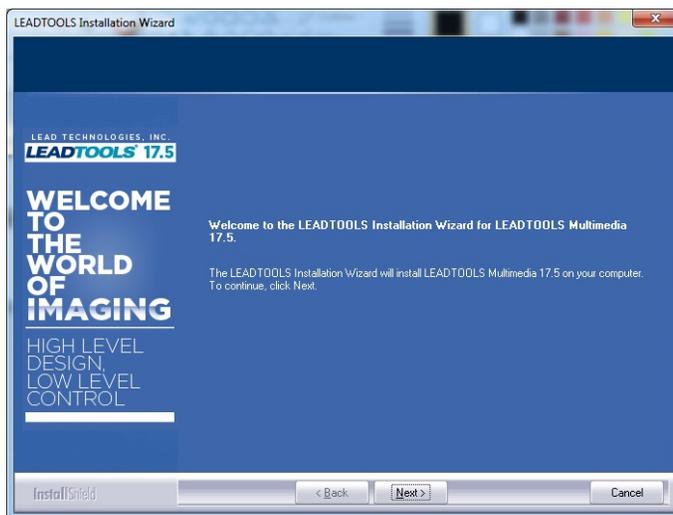


Figure B-16: LEADTOOLS Installation Wizard

HDx-301 Series SDK (Windows)

Step 8: Select **No, I want to evaluate the product**, and then click **Next** to continue (Figure B-17).

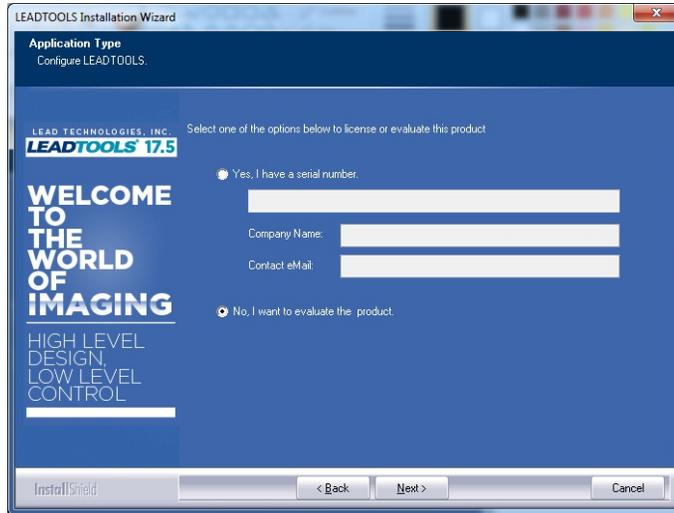


Figure B-17: Application Type

Step 9: The License Agreement in Figure B-18 appears. Select **I accept the terms of the license agreement**, and then click **Next** to continue.



Figure B-18: License Agreement

Step 10: Select **Complete** and click **Next** to continue (Figure B-19).

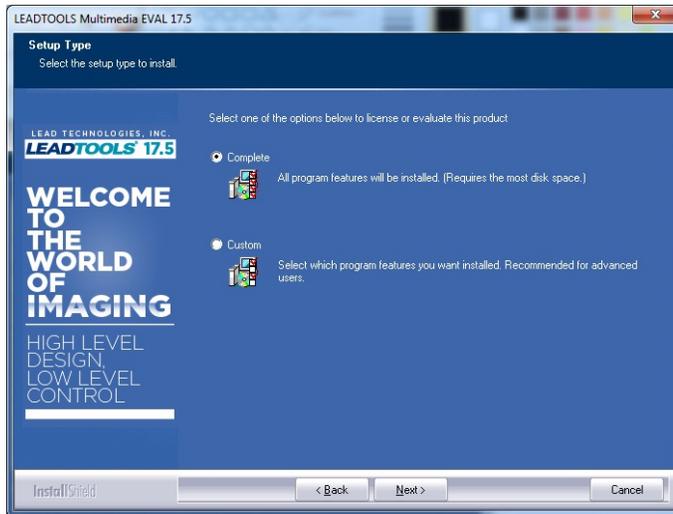


Figure B-19: Setup Type

Step 11: The LEADTOOLS Multimedia Notification in **Figure B-20** appears. Read the notification, select **I read and accept the terms of the LEADTOOLS Multimedia Notification**, and then click **Next** to continue.

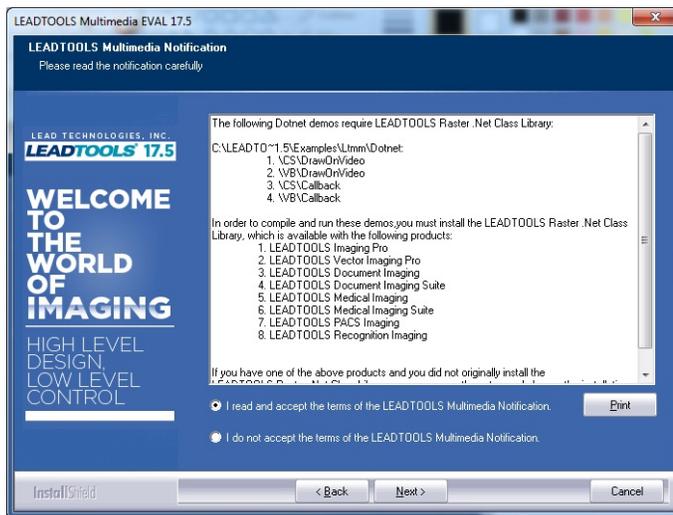


Figure B-20: LEADTOOLS Multimedia Notification

Step 12: Select a folder for LEADTOOLS installation (**Figure B-21**). Click **Next** to continue.

HDx-301 Series SDK (Windows)

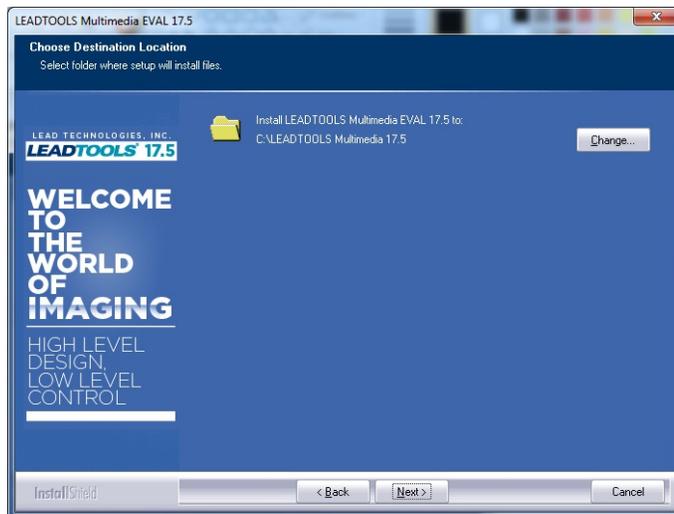


Figure B-21: Choose Destination Location

Step 13: Select **Register the LEADTOOLS documentation files only** (Figure B-22).

Click **Next** to continue.

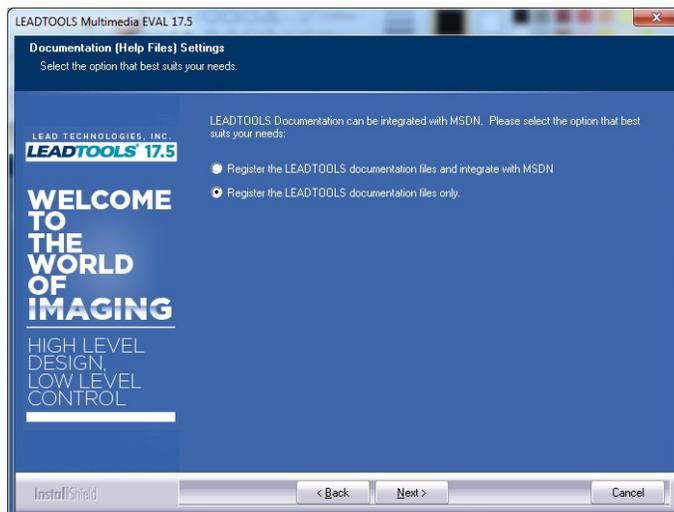


Figure B-22: Documentation (Help Files) Settings

Step 14: Specify a folder where to place the LEADTOOLS program icons (Figure B-23).

Click **Next** to continue.

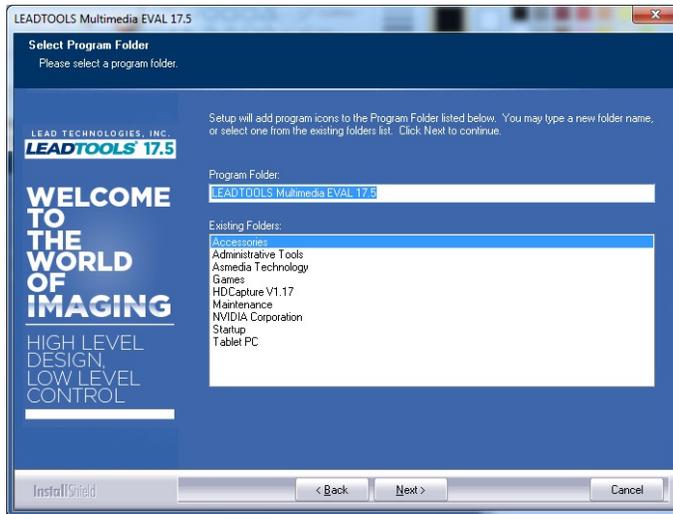


Figure B-23: Choose Program Folder

Step 15: The following screen appears. Click **Install** to start the installation.

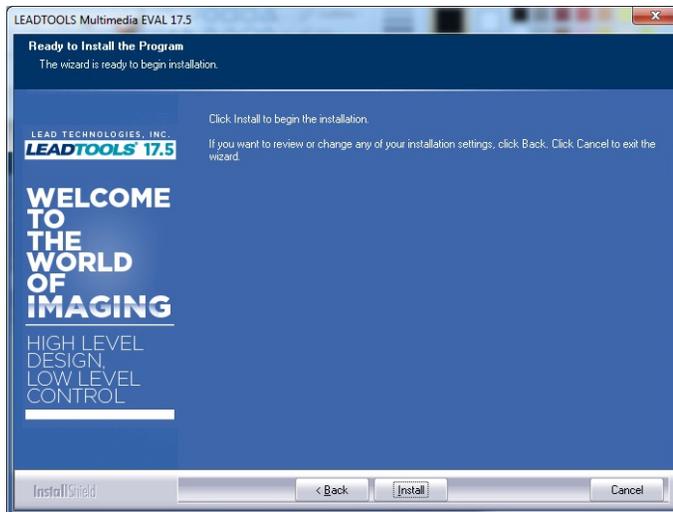


Figure B-24: Ready to Install the Program

Step 16: The screen in **Figure B-25** shows the installation status.

HDx-301 Series SDK (Windows)

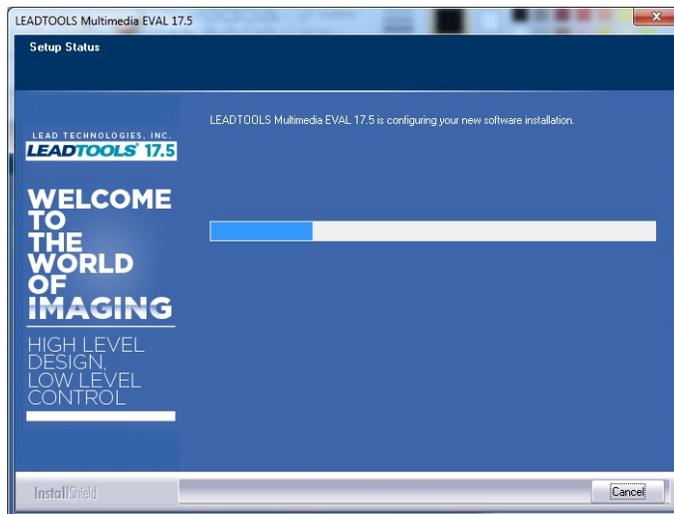


Figure B-25: Setup Status

Step 17: When the LEADTOOLS is completely installed, the following screen appears.

Click **Finish** to exit.

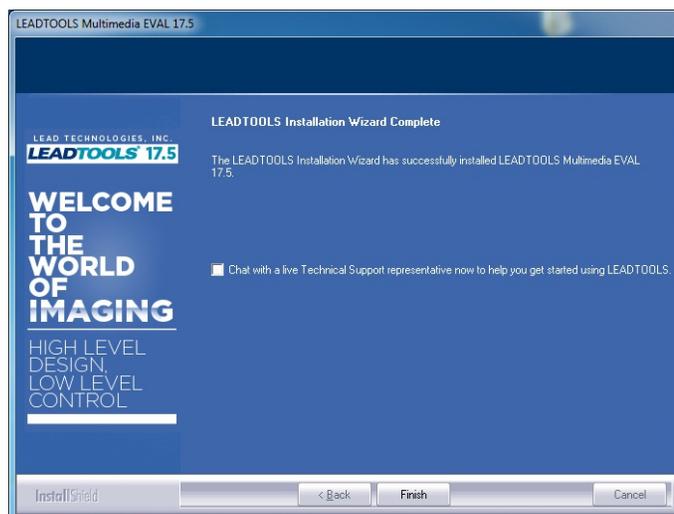


Figure B-26: LEADTOOLS Installation Wizard Complete

Step 18: Go to **Control Panel > Programs > Programs and Features** to ensure the LEADTOOLS has been properly installed. See **Figure B-27** for the details.

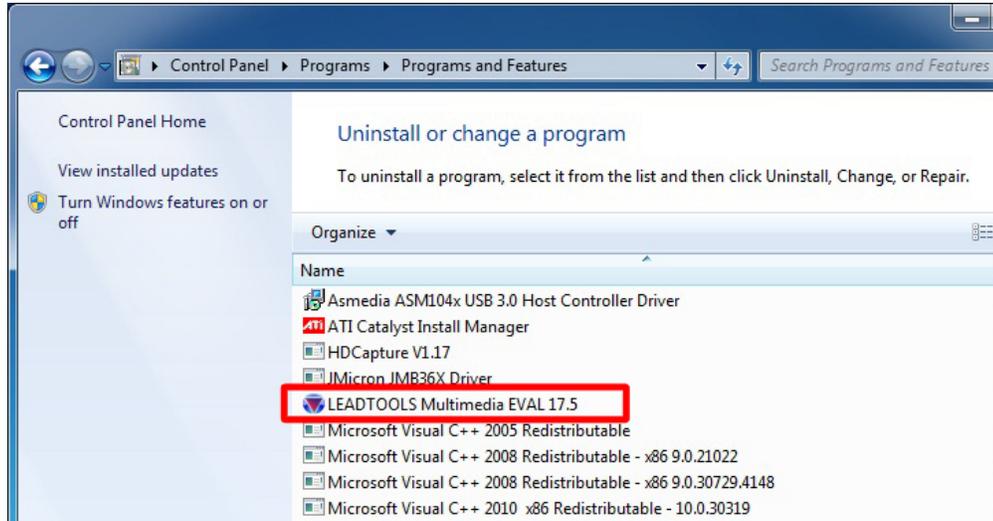


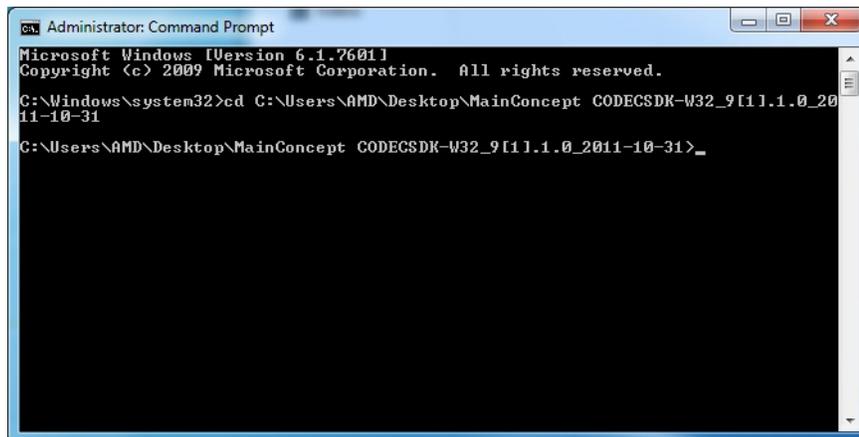
Figure B-27: Control Panel – LEADTOOLS

B.1.3 MainConcept

Follow the steps below to proceed with the MainConcept setup procedures.

- Step 1:** Go to <http://www.mainconcept.com/home.html> to download the MainConcept decoder pack.
- Step 2:** There will be a setup file and a text file after extracting the decoder pack. To install the MainConcept decoder, all the .AX files listed in the text file must be registered. The following steps will show you how to register the .AX files.
- Step 3:** Run a **Command Prompt** as an administrator (right click the **Command Prompt** and select **Run as administrator**).
- Step 4:** Key in the MainConcept setup file directory, and press **Enter** (**Figure B-28**).

HDx-301 Series SDK (Windows)

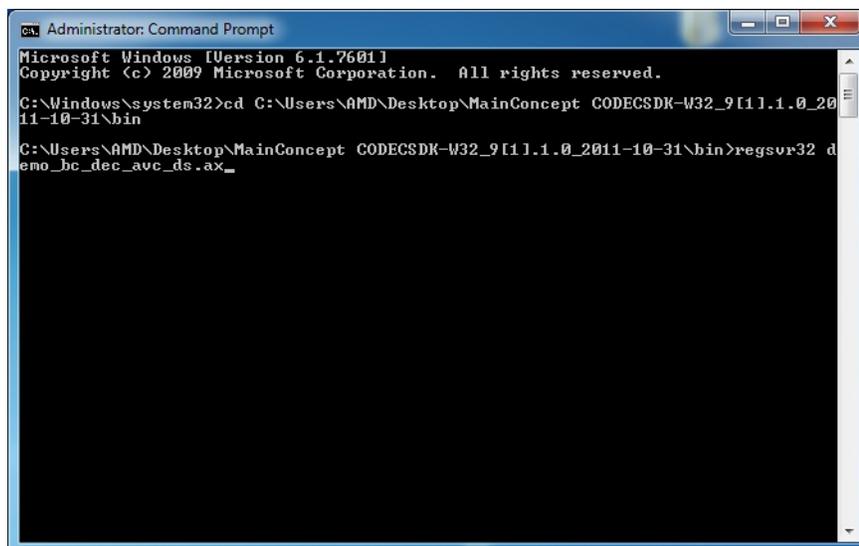


```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\Users\AMD\Desktop\MainConcept CODECSDK-W32_9[11.1.0_2011-10-31
C:\Users\AMD\Desktop\MainConcept CODECSDK-W32_9[11.1.0_2011-10-31>
```

Figure B-28: Command Prompt – Setup File Directory

Step 5: Key in `regsvr32 xxxxxx.ax` and press **Enter** (Figure B-29). `xxxxxx` should be the .AX file name.



```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\Users\AMD\Desktop\MainConcept CODECSDK-W32_9[11.1.0_2011-10-31\bin
C:\Users\AMD\Desktop\MainConcept CODECSDK-W32_9[11.1.0_2011-10-31\bin>regsvr32 demo_bc_dec_auc_ds.ax_
```

Figure B-29: Command Prompt – File Name

Step 6: The following screen appears if the .AX file is registered successfully. Click **OK** to exit.

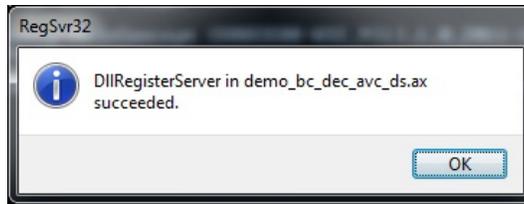


Figure B-30: Register Succeeded

Step 7: Repeat **Step 3 ~ Step 5** to register all the .AX files listed in the text file.