



XI200XE-mini Dual HD+ Audio Capture Adapter

User's Guide

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1 Preface

Thank you for purchasing XI200XE-mini Dual HD video Capture Adapter!

XI200XE-mini is featured with superior performance and can capture kinds of signal.

XI200XE-mini can simultaneously capture two High-Definition video signals. The HD input can connect with HDMI, DVI, YPbPr, VGA (RGB-HV), composite video broadcast signal (CVBS).

The user's guide will provide with necessary instruction for proper use of XI200XE-mini Capture Adapter.

2 Minimum Hardware Configuration

- Intel Core Solo
- 1G of RAM
- Available PCI-Express x4 expansion slot on motherboard

3 Recommended Hardware Configuration

- Intel Core i7
- 2G of RAM
- Available PCI-Express x4 expansion slot on motherboard

4 System Requirements

System should be one of the following systems (x 86 version or x64 version):

- Microsoft Windows XP
- Microsoft Windows Server 2003
- Microsoft Windows Vista
- Microsoft Windows Server 2008
- Microsoft Windows 7
- Microsoft Windows Server 2008 R2

5 Hardware and Driver Installation

Please refer to "XI200XE-mini Installation Guide" to install the hardware and the driver.

6 Connection of HD Input

6.1 DVI-D/DVI-I Signal

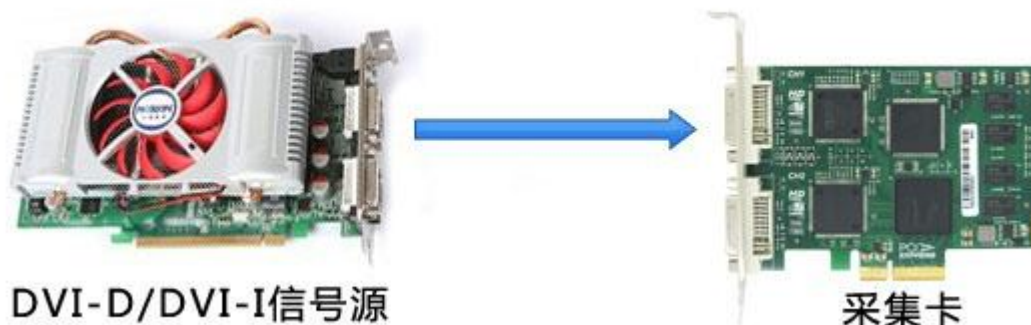


Figure 1, DVI signal connection sketch map

6.2 HDMI Signal



Figure 2, HDMI signal connection sketch map

6.3 VGA Signal (RGB-HV)



Figure 3, VGA signal connection sketch map

6.4 YPbPr Signal



Figure 4, YPbPr signal connection sketch map

6.5 Composite Video Broadcast Signal (CVBS)

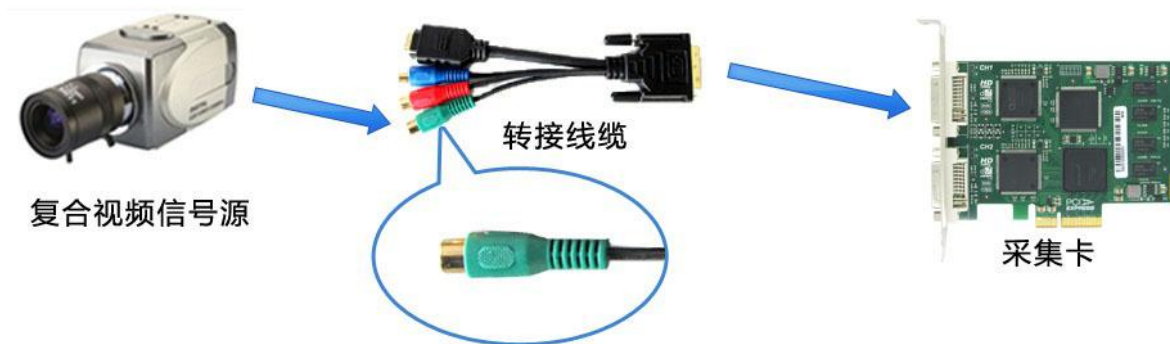


Figure 5, composite video broadcast signal connection sketch map

7 Video Capture Device Instruction

XI200XE-mini is based on Microsoft DirectShow interface, two HD video captures will be increased in operating system after installation:

- HD Video (XI200XE-mini Adapter 1)

- HD Video (XI200XE-mini Adapter 2)

HD Video (XI200XE-mini Adapter 1) is corresponding to DVI-I HD input interface 1;

HD Video (XI200XE-mini Adapter 2) is corresponding to DVI-I HD input interface 2.

XI200XE not only offers basic options, such as image brightness, contrast, hue, saturation, Gamma and so on, but also provide additional options for setting function.

You can use "**Filter Properties dialog window**" in DirectShow to set these options.

7.1 Display "Filter Properties Dialog Window" In Common

Software

AMCAP: Double click "**AmCap.exe**", select HD video device "**HD Video (XI200XE-mini Adapter1)**" in "**Devices**" menu, then click "**Video Capture Filter ...**" in "**Settings**" menu, pop-up "**Filter Properties dialog window**".

7.2 “Devices” Instruction



Figure 6, Device Properties page

Device Number: display serial of card, the number should be accorded with the barcode on the card.

Version: display related version number, versions include hardware version, firmware version, driver version, and device serial. You may request user to provide relevant version number when you solve problems.

Firmware: if new features need to upgrade the firmware, we should first backup it and then upgrade the firmware.

Notes: The different versions of the firmware and hardware cannot be mixed together,

or else it will get error when upgrade. Additionally, do not power outage in the process of firmware upgrade, otherwise it will lead to upgrade firmware fail, then the Capture Adapter will not work. You have to return the Capture Adapter back to factory for being repaired.

7.3 "Advanced Settings" Instruction

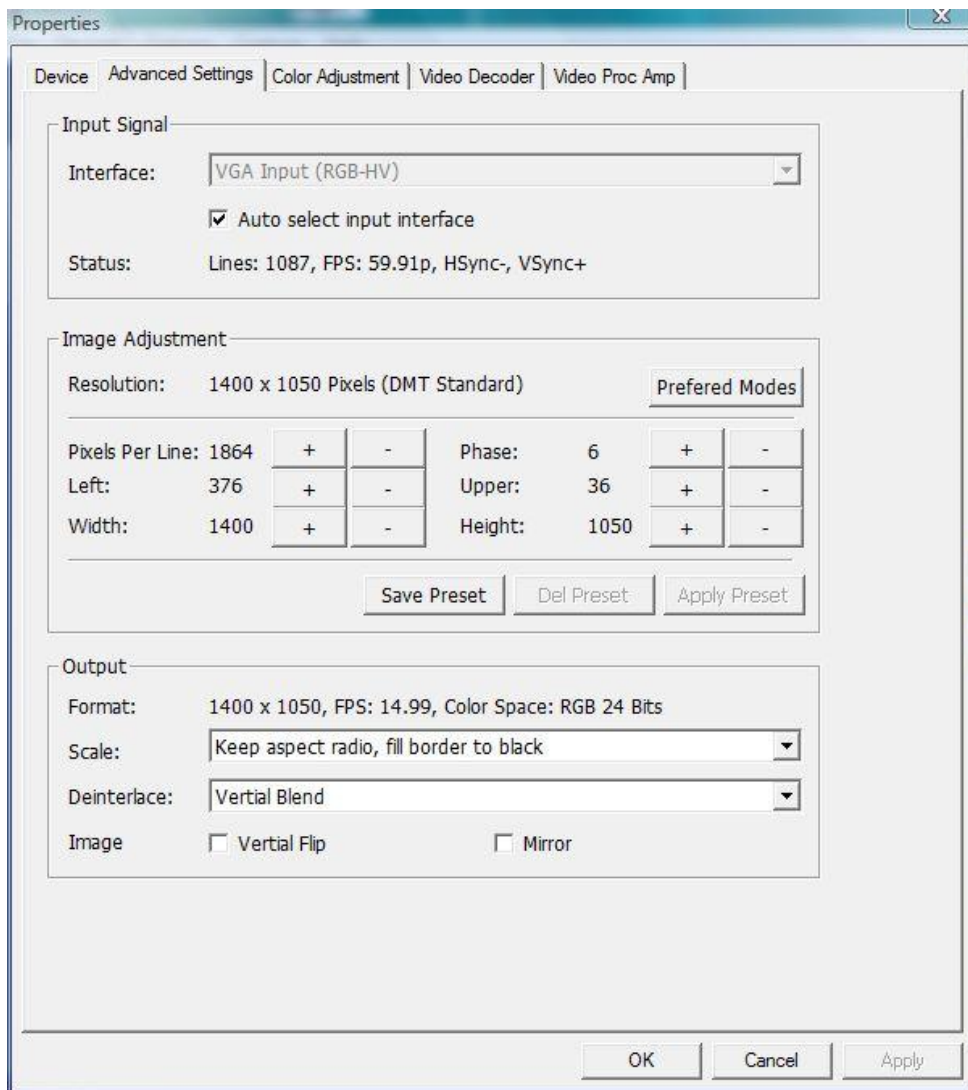


Figure 7, "Advanced Settings" page

7.3.1 Input Signal

7.3.1.1 Input Interface

By default, check “Auto Select Input Interface”, supporting input interface includes: DVI / HDMI input, VGA input, YPbPr input, composite video input (CVBS).

Notes: when “Auto Select Input Interface” is selected, if HDMI and YPbPr input interfaces both have signal access, then HDMI input is preferred. You must select CVBS input manually, otherwise it will be identified with YPbPr input. Signal must access Y interface (green RCA interface).

7.3.1.2 Signal Status

The relevant parameters of signal are shown, such as total number of rows, frame rate (p is progressive scan, i is interlaced), mode, audio frequency.

7.3.2 Image Adjustment

By default, image is auto, but it cannot achieve desired effect, such as black border, unclear image, picture which needs clipping, it must be adjusted manually. After adjustment, you can save the preset. Then you can apply preset values without adjustment when the same signal accesses.

For example as VGA signal adjustment:

Black border adjustment: Through adjust left margin and top margin to eliminate black border. Every time you can adjust 1 pixel.

Text definition adjustment: adjust line number of samples and sampling phase to achieve desired definition of text.

Select correct resolution quickly: the capture card cannot identify correct resolution with the same number of rows, such as 1024x768, 1280x768, 1360x768, 1368x768, lines are all 768, auto may be all identified as 1024x768, then click “**auto**”, a list will pop up as shown below, user can select the correct resolution.

1024 x 768 Pixels (GTF Standard)
1280 x 768 Pixels (GTF Standard)
1360 x 768 Pixels (GTF Standard)
1368 x 768 Pixels (GTF Standard)

Figure 8, auto pop-up menu

Image clipping: Through adjust image width, height, left margin and top margin to achieve desired requirement. Increasing/reducing width of image starts from right, increasing/reducing height of image starts from bottom.

Skills of image clipping as follows:

1. Set scale “fill output image” to confirm whether clipping adjustment is appropriate.
2. Cut off image left: firstly increase left margin, then reduce image width.
3. Cut off image right: reduce image width.
4. Cut off image top: firstly reduce image height, and then increase top margin.
5. Cut off image bottom: reduce image height.

After image adjustment completes, click "Save Preset" to save current adjustment; click "Del preset" to delete preset you saved; click "Apply Preset" to apply the saved preset to current settings.

7.3.3 Image Output

Display output format of current image, set image zoom scale, de-interlace and image flipping.

- Format: display output image size, frame rate, color format.
- Scale: provide three ways, full output image and keep aspect ratio, fill border to black and keep aspect ratio, clip border.
- De-interlace: vertical blend, motion adaptive. Motion adaptive is better, but it takes up high CPU usage, also you can select “disabled”.
- Image: offer two ways, vertical flip and mirror.

7.4 "Color Adjustment" Instruction

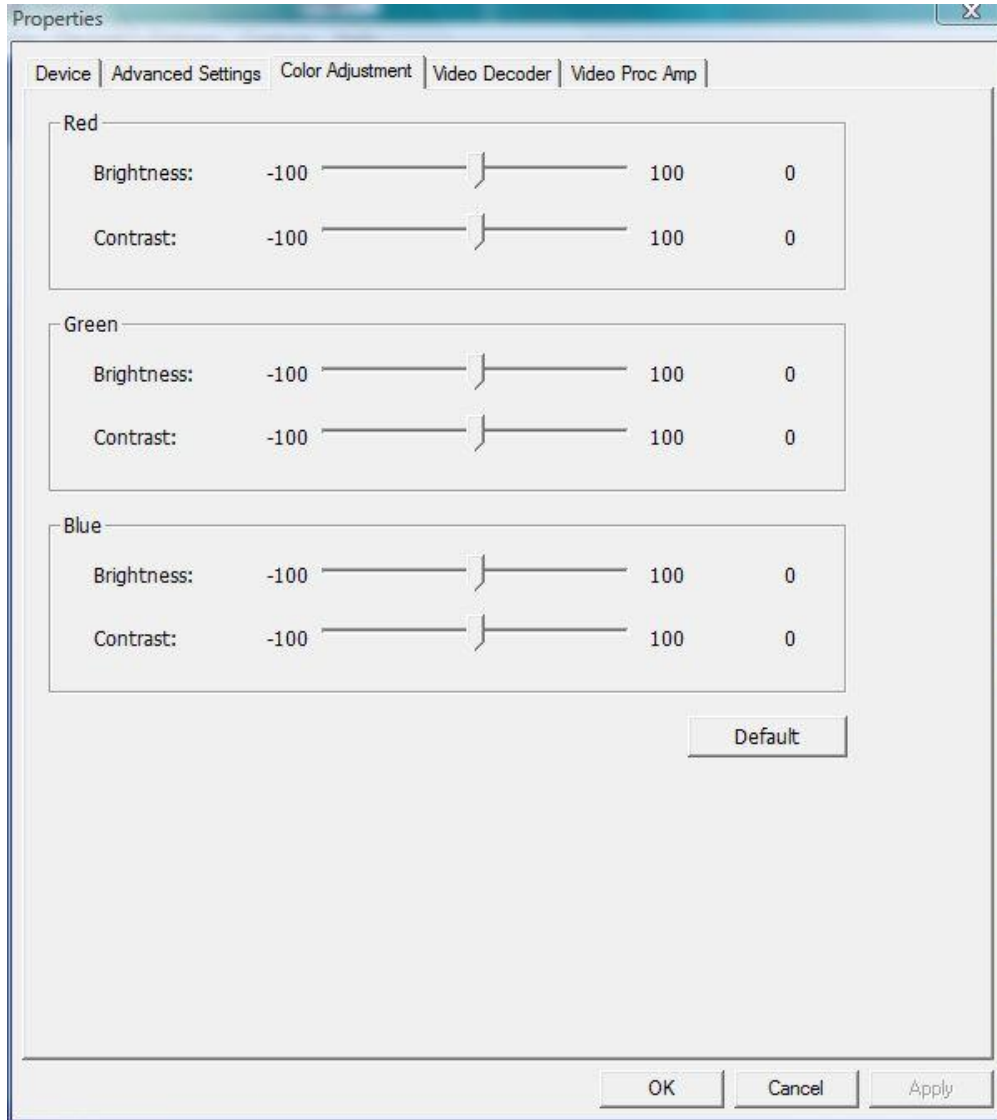


Figure 9 , HD device "Color Adjustment" properties page

Here can be adjusted R, G, B brightness and contrast separately, click "Default" to restore default values.

8 Video formats setting

驱动对“过滤器输出引脚”设置界面进行重新定义，输出分辨率可以支持任意大小，对剪切过的特

殊分辨率也支持。The driver re-defines the “filter output pin” , and it supports resolutions of any size, and supports special resolutions.

8.1 Methods of showing “filter output pin” by regular software

- **AMCAP** : Double click “AmCap. Exe” , and select “HD Video 1 (XI200XE-MINI Adapter1)” in the menu of “Devices” , click “Video Capture Pin” in the menu of “Options” and the “Filter output pin” dialogue will pop out.
- Instruction of “Video formats”



Figure 11 “Filter output pin”

- Color: provide 5 color space, YUYV、UYVY、I420、RGB 24 Bits、RGB 32 Bits
- Size: You can set the size of the output image manually or you can select the output resolution in the “preset” . The resolution of the font on the top of preset is the same as the current captured image, which is the best resolution.
- Frame rate: You can set the output frame rate manually, or you can select in “preset” . If the application has set the output frame rate, settings here will not work. Please start it to recover to the frame rate of the application.

9 Audio Capture Device Instruction

XI200XE-mini is based on the Microsoft DirectShow interface. After installation the relevant audio devices will be added under operating system. Any software which is

compatible with DirectSound, DirectShow can use the recording device for capturing sound.

9.1 Windows XP, Windows 2003

The name of audio capture device under Windows XP, Windows 2003:

- HDMI In 1 (XI200XE-mini Adapter 1)
- HDMI In 2 (XI200XE-mini Adapter 2)

Through system "Volume Control" to adjust recording volume, specific steps as follows:

1. In system notification icon area on right corner double-click " " button to pop-up "Open Volume Control" window.
2. Open "Options" menu, select "Properties" menu item.
3. In "Mixer", select "Audio (XI200XE Adapter x)", click "OK" button.
4. Corresponding volume control project will be displayed, this time you can operate volume and "Quiet" according to your requirement.




Figure 10 , Windows XP/2003 "VolumeControl" - "Properties" dialogue

9.2 Windows Vista, Windows 7, Windows 2008, Windows 2008 R2

Under these operating systems, each Capture Adapter will show two audio capture devices:

- HDMI In (XI200XE-mini Adapter 1)
- HDMI In (XI200XE-mini Adapter 2)

Through system "**Volume Control**" to adjust the recording volume, specific steps as follows:

1. In system notification icon area on right corner right-click "" button, select "**Recording devices**" in pop-up menu.
2. In the pop-up list which displays recording device, select "**HDMI In**", click "**Properties**" button, system will pop up device properties dialog window.

3. In Properties dialog box, select "**Levels**" property page, then you can operate volume control and "**Quiet**" according to your requirement.

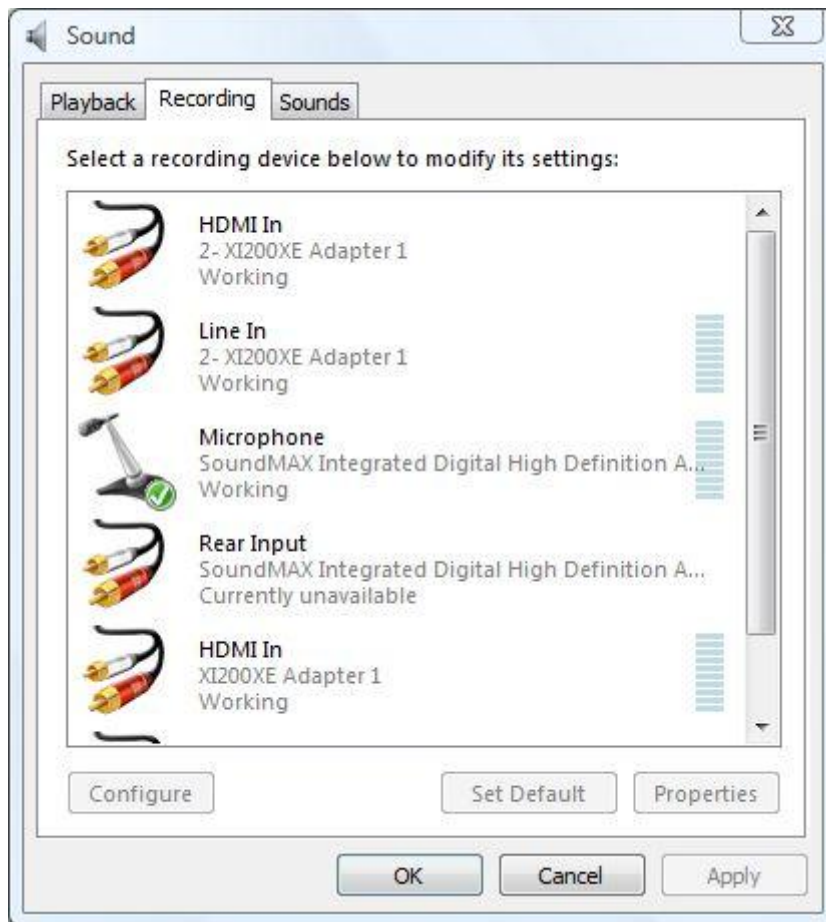


Figure 11, Windows Vista/7 recording device properties dialog windows

10 Compatible Software Instruction

XI200XE can be compatible with variety of audio and video capture software which is based DirectShow interface, and audio capture software which is based DirectSound interface, such as:

- Windows Media Encoder
- Adobe Flash Media Live Encoder
- Real Producer Plus
- VideoLAN for Windows

