



USB Capture SDI

SDI to USB3.0 Video Capture Dongle

User' s Guide

Rev 1.1

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1 Preface

Thank you for purchasing USB Capture SDI, SDI to USB3.0 Video Capture Dongle!

USB Capture SDI USB3.0 Dongle, it is easy to carry, have a superior performance, superior compatibility, simple installation and many other features. It can capture one SDI 1080p60 input and output signal; compatible with Windows, Linux, Mac OS X and USB 2.0 interface, Compatible with many USB 3.0 chipset (Intel, Renesas, ASMedia, Fresco Logic), compatible with PCIe Gen1.1 x1 expansion via USB 3.0 interface; The SDI video capture meets UVC and UAC standard, without having to install drivers and settings, the real PnP, easy to use.

The user's guide will provide with necessary instruction for proper use of USB Capture SDI capture adapter.

2 Minimum Hardware Configuration

- Intel Core Solo
- 1G of RAM
- Available USB3.0 interface

3 Recommended Hardware Configuration

- Intel Core i5
- 2G of RAM

- Available USB3.0 interface

4 System Requirements

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

- Microsoft Windows Server 2003
- Microsoft Windows Server 2008 R2
- Microsoft Windows 7
- Microsoft Windows 8, 8.1
- Microsoft Windows 10
- Linux (Kernel version 2.6.38 and above)
- OS X (10.8 and above)

5 Hardware and Driver Installation

- USB Capture SDI USB3.0 dongle supports hot-plugging/swap. Insert the USB3.0 cable head to USB3.0 interface, the other side of the cable into your computer's USB3.0 interface.
- It's PnP devices, without having to install drivers, if POWER and ACTION lights lit, which means it working properly

Recommendation: In actual use, first plug SDI cable, then plug the USB3.0 interface. Because an SDI signal sources are often not reliable grounding, Ground and the computer will be relatively large voltage difference, it may cause the signal source or capture not working properly.

6 Components and Connection

6.1 Components

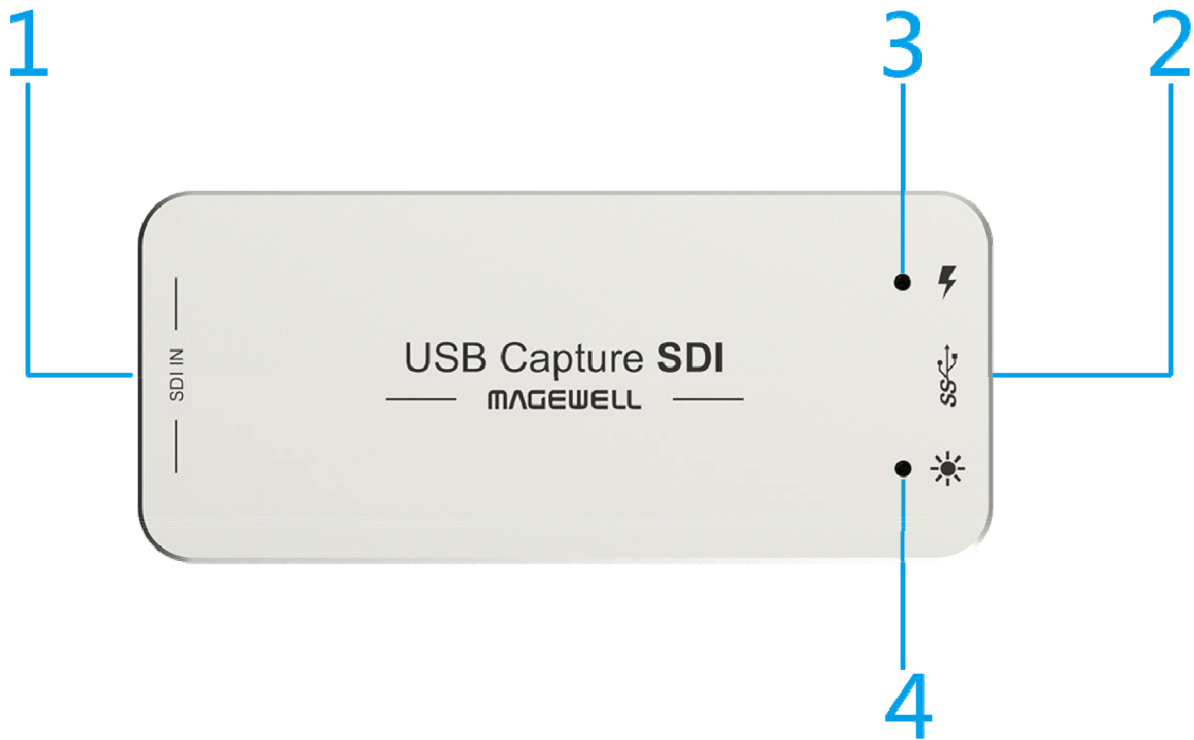


Figure 1, components

1. SDI video input interface
2. USB 3.0 capture output
3. Power Power indicator
4. Action Working lights

6.2 Connection

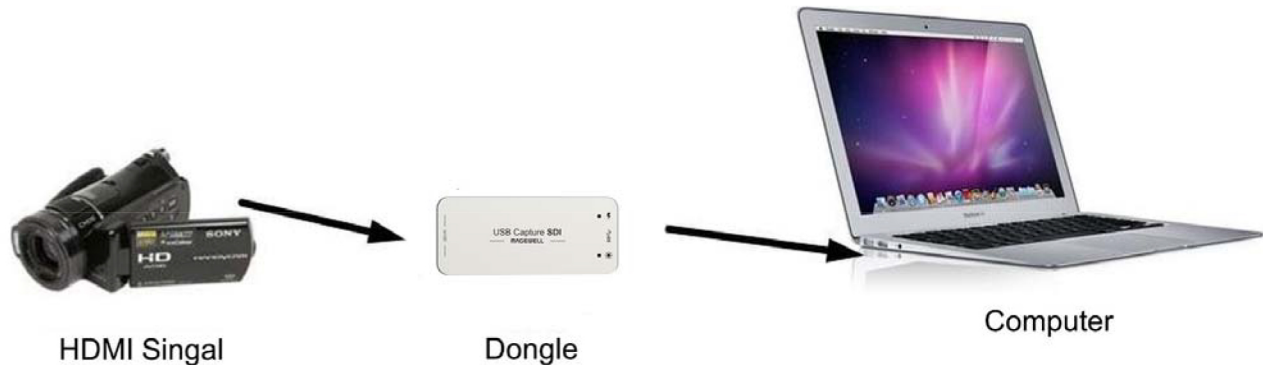


Figure 2, connection

7 Video Capture Device Instruction

USB Capture SDI is based on UVC (USB video class), UAC (USB audio class) STANDARD, without having to install drivers and settings.

Different types of operating systems compatible with the corresponding interface:

Windows: DirectShow, DirectSound

Linux: V4L2 / ALSA

.....

In Windows, for example, will have a new image device:

- USB Capture SDI Video

USB Capture SDI provides screen brightness, contrast, hue, saturation, and other options set by DirectShow "filters" dialogue box to set these options.

7.1 Display "Filter Properties Dialog Window" In Common Software

AMCAP: Double click "**AmCap.exe**", choose HD video device " USB Capture SDI Video " in "**Devices**" menu, then click "**Video Capture Filter ...**" in "**Settings**" menu, pop-up " **Filter Properties dialog window**".

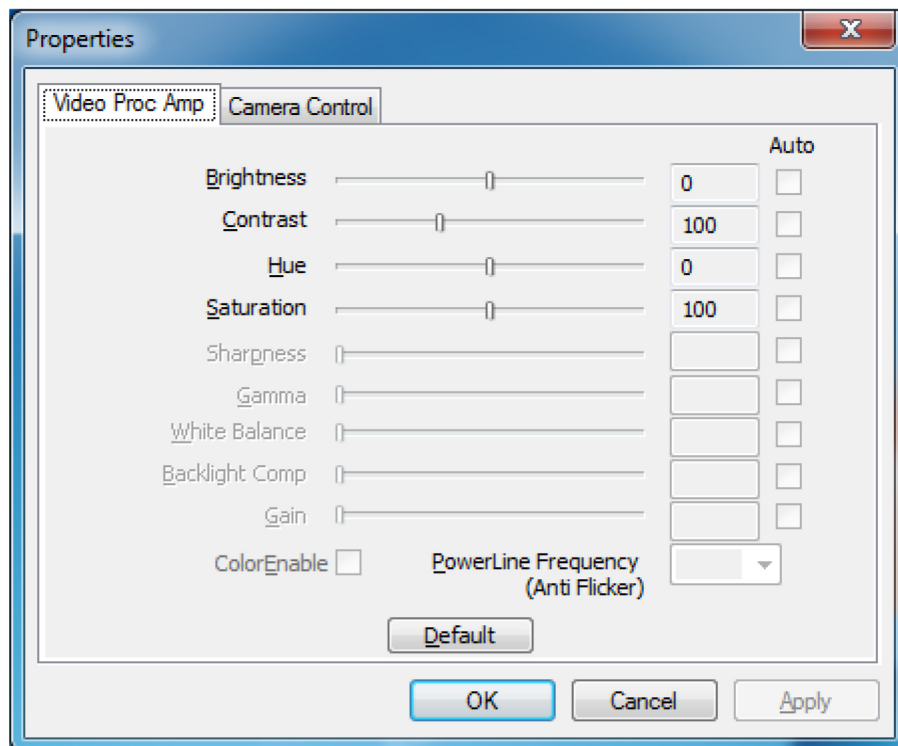


Figure 3, Video property page

- In the " Proc Amp" panel, you can set the brightness, contrast, hue, saturation, and other relevant parameters

7.2 Display " Filter output pin " In Common Software

AMCAP: Double click "**AmCap.exe**", choose HD video device " USB Capture SDI Video " in "**Devices**" menu, then click "**Video Capture Pin ...**" in "**Option**" menu, pop-up " **Filter output pin**" window.

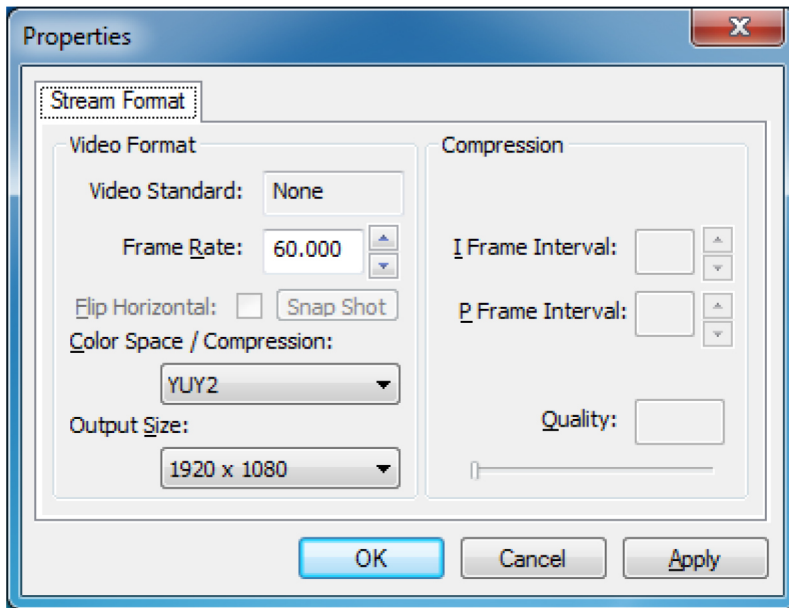


Figure 4, “Filter output pin “page

- **Frame Rate:** Set the output frame rate, currently supports 25/29.97/30/50/59.94/60 fps
- **Color Space / Compression:** currently offers two kinds of color spaces, YUY2 and RGB 24
- **Output:** Set the screen output size, resolution is currently supported 640x480/720x480/720x576/768x576 / 800x600/1024x768/1280x720/1280x800/1280x960/1280x1024/1368x768 / 1440x900/1600x1200/1680x1050/1920x1080/1920x1200, the default output is 1920 * 1080.


8 Audio Capture Device Instruction

For Windows as an example, USB Capture SDI is based on the Microsoft DirectShow interface. After installation in operating system, the relevant audio devices will be added on. Any software which is compatible with DirectSound, DirectShow can use the recording device for capturing sound.

In Windows7, for example, will show a new audio device:

- USB Capture SDI Audio

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. In the pop-up display recording equipment list, select "Digital Audio Interface (USB Capture SDI Audio)", click the "Properties" button, the system will pop up the corresponding device's properties dialog box
3. In Properties dialog box, select "**Levels**" property page, then you can operate volume control and "**Quiet**" according to your requirement.

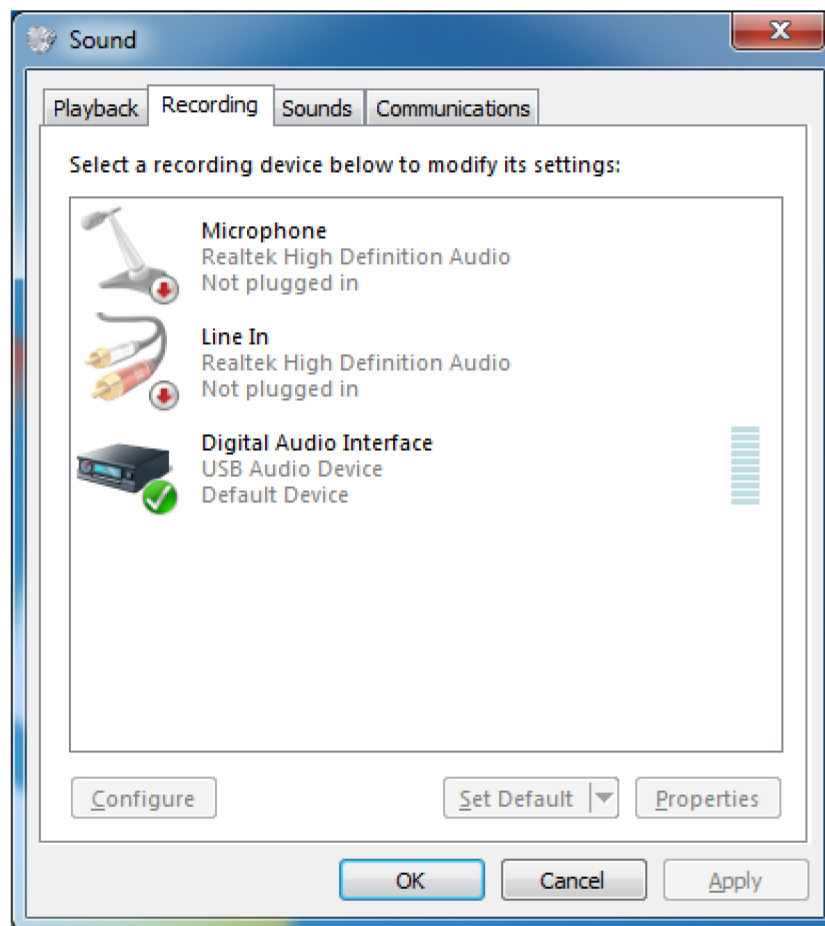


Figure 5 , Windows 7 Recording Device Properties dialog box

9 Compatible Software Instruction

USB Capture SDI is currently compatible with the following capture software

(tested):

- Windows Media Encoder (Windows)
- Adobe Flash Media Live Encoder (Windows, OS X)
- Real Producer Plus (Windows)
- VLC (Windows, OS X, Linux)
- QuickTime Broadcaster (OS X)
- QuickTime Player (OS X)
- Wirecast (Windows, OS X) etc...