XI100DUSB-SDI Specification

(V1.0)

Product Features

- It can capture one single channel SD/HD/3G-SDI video signals.
- The input and output video signal can reach 1080p/60 Hz.
- It is compatible with UVC video capture and YUV 422 video output.
- The UAC is compatible with HDMI audio capture and 48 KHz PCM audio output.
- It doesn't need to install a driver, and it is truly PnP.
- It is compatible with Windows, Linux, OS X operating systems.
- Size: 84.25x42.8x12.6 (L/W/H, mm).

Please note:

1. For the copyright protection, the user shall not use the device to capture the HD output of blue ray player.

Advanced Features

- USB3.0, 300-350MB/s throughput and it is compatible with USB 2.0.
- The process of video and audio is done by the dongle and will not occupy the CPU.
- It can automatically detect the input video formats and it will adjust to the set output size and frame rate automatically.
- It can automatically detect the input audio formats and swift it to 48KHz PCM audio.
- It supports the image adjustment features, like brightness, contrast, hue and saturation.
- Multiple dongles can be used on one PC
- The firmware can be updated.

Product Specification

Connection	
Host Interface	USB3.0, *300-350MB/s throughput
	USB2.0, *40MB/s throughput
Input Interface	1 MCX interface (can convert to BNC interface)

SDI Input	1 1080p/60Hz SD/HD/3G-SDI
SDI Audio Input	1 embedded SDI audio
Standards	
SDI Input Formats	SD/HD/3G-SDI, SMPTE-259/274/296/372/424/425/292
Output Formats	Resolution: 640x480/640x360/720x480/720x576/768x576/856x480/960x540/1024x576/1280x720/1920x1080 frame rate: 25/29.97/30/50/59.94/60 fps
Video Sampling Rate	SDI : 270Mb/s , 1.485Gb/s , 2.97Gb/s
Audio and video capture	It meets the standards of UVC (USB video class) and UAC (USB audio class)
Output color space	YUY2, RGB24
Video Process	
Color space switch	Hardware Color Space Switch
Image Scale	Hardware scale
Image Adjustment	The image adjustment of brightness, contrast, hue, saturation.
Others	
The support of OS	It supports the following operating systems (x86 and x64 versions): Windows 7 Windows Server 2008 R2 Linux (Kernel version 2.6.38 and above) OS X (10.8 and above)
Software compatibility	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) and etc.
Development interface compatibility	DirectShow (Windows), DirectSound (Windows), V4L2 (Linux), ALSA (Linux)
Onboard memory	64MB DDR2, the work rate is 300 MHz, the bit width is 16 bits
Upgrade	the firmware can be upgraded
Size	84.25x42.8x12.6 (L/W/H, mm)
Power consumption	<= 2.5W
Working Temperature	0-50 deg C
Storage Temperature	-20-70 deg C
Storage Humidity	5%-90%

Standard Accessory
- USB3.0 cable: 1
- MCX to BNC cable:1

Please note:
1. The actual USB 3.0 throughput is related to the chip of the host and motherboard of the PC and the figure shall be lower than the figure stated here.