VC100XUSB-Pro Installation Guide

Please contrast parts list and parts in package to confirm that there is no lack of any parts.

Parts List

Parts	Number
VC100XUSB-Pro capture box	1
DVI-I breakout HDMI+ component signals	1
DVI-I adapter VGA	1
DB9 to A/V Interface Breakout Cable	1
USB3.0 Cable	1
Driver Installation CD	1
Installation Guide(the document)	1
Quality Guarantee Specifications	1

Installation Steps

1. The USB 3.0 capture box supports hot plug. Connect the capture box by the USB cable to the USB 3.0 interface of the computer.
2. Cancel the system promotes that new hardware is founded.
3. Insert the application installation CD and run the Autorun.exe in the directory of the CD.
4. Click the installation items in the Autorun. Exe and complete the following operations.
5. After the installation, run the AmCap in the CD to check whether the installation is successful.

VC100XUSB-Pro Specifications

（V1.0）

Feature

- Capture one HD or SD video signal and one stereo analog audio signal.
- 1080P@60Hz for HD signal input.
- HD signal can capture SDI, DVI, VGA, HDMI, Y/Pb/Pr.
- Capture LPCM audio signal via HDMI.
- Capture the embedded audio in SDI
- Microsoft AVStream standard driver, support majority multimedia video software or streaming media software.
- Super small size: 98mm x 98mmx25mm (L/W/H)

Attention:

For copyright protection, you cannot use for capturing HD signal which blu-ray player outputs.

Advanced Feature

- HD input can switch signal dynamically：

  SDI/DVI/HDMI/VGA/Y/Pb/Pr.

- HD input supports automatic detection of input video format, automatic detection of the valid area of video and automatic detection of VGA capture phase.

- It supports manual settings for valid area of video which can be used to support the image clip and timing for special input signals

- HD input supports for multi-stage image zoom and provides with three scales for image aspect ratio.

- De-interlace supports Vertical Blend and Motion Adaptive.

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- Hardware color conversion, it can output YUYV, UYUV, I420, RGB24，RGB32.

- HD input supports color adjustment, it can adjust image brightness, contrast, hue, saturation, Gamma; also R, G, B brightness and contrast can be adjusted separately.

- HD input supports image vertical flip and mirror.

- The firmware can upgrade.

Product Specifications

Connection	
Host Interface	USB3.0，*300-350MB/s transmission throughout
Input Interface	1 DVI-I interface (can connect to HDMI, VGA, YPbPr) 1 BNC interface (can connect to SD/HD/3G-SDI) 1 DB9 interface (to YPbPr, S-Video, CVBS,1 unbalanced stereo audio line in)
DVI Input	1 1080P/60Hz HD DVI signal
HDMI Input	1 1080P/60Hz HDMI signal
SDI Input	1 SD/HD/3G-SDI signal, it can reach 1080P/60Hz
VGA Input	1 VGA
YPbPr Input	1 YPbPr
CVBS Input	1 SD video signal
HDMI Input	1 LPCM audio signal
SDI Input	1 embedded SDI audio
Analog audio	1 analog audio
Standard	
DVI Input formats	It meets DVI 1.0 standard, single connection (480i, 576i, 480p, 576p, 720p, 1080i, 1080p)
HDMI Input	It meets HDMI 1.3 standard, support 36 bits DeepColor

formats	
SDI Input formats	SD/HD/3G-SDI，it meets standards of SMPTE-259/274/296/372/424/425/292
YPbPr Input formats	480i, 576i, 480p, 576p, 720p, 1080i, 1080p
VGA Input formats	640x400—2048x1536 when the pixel is below 170MHz; provides safe mode for VGA signals and can capture irregular resolutions
CVBS Input standards	PAL/NTSC
HD Output format	40 x30-2048x1536, frame rate: 1-100fps
SD Output format	176x144-768x576, frame rate:1-30fps
Analog audio sampling rate and SNR	Up to 96 KHz, 85db, 24-bit
Video sampling rate	CVBS: 57.27MHz (4x Oversampling) RGB/component: 170MHz HDMI/DVI: 225MHz
Video sampling precision	10 bits
Color Space	YUYV, UYVY, I420，NV12, RGB 24 Bits, RGB 32 Bits
Video Processing	
Color space switch	Hardware color switch
De-interlacing	Vertical filter de-interlacing; motion-adaptive de-interlacing
Image Scale	Hardware 5-Tap scale
Image Mirror	Horizontal; vertical
Image Clip	Yes
Image Adjustment	Brightness/contrast/hue adjustment/ saturation adjustment/control of monochrome and color/ Gamma adjustment separately adjust the brightness and contrast of R/G/B

Others	
Operating System Support	Support following operating systems (x 86 version or x64 version) : Windows XP Professional Windows Server2003 Windows Vista Windows Server 2008 Windows 7 Windows Server 2008 R2
Software Compatibility	Windows Media Encoder Adobe Flash Media Live Encoder Real Producer Plus VideoLAN for Windows
Onboard Memory	128MB DDR2, working rate is 160 Mhz, bit width is 32bits
Update	Firmware can be updated.
Size	98mm x 98mmx25mm(L/W/H)
Power Consumption	<= 3.5W
Operating Temperature	0 to 50 deg C
Storage Temperature	-20 to 70 deg C
Relative Humidity	5% to 90%

Standard Accessories

- DVI-I breakouts to HDMI+ YPbPr 1

- DVI-I adapter 1

- DB9 to YPbPr+ CVBS+ S-Video+ Stereo audio cable 1

- USB3.0 cable   1

* Please note:

1. Actual USB 3.0 transmission bandwidth related to the host chipset and the computer's motherboard, it may be less than setting value here.