VC104XUSB Installation Guide

Please check the item list to confirm that nothing is missing.

Item List

Item	Quantity
VC104XE Capture Card	1
DVI-I to HDMI+ component breakout cable	1
DVI-I to VGA adapter	1
DB9 to quad CVBS+ dual stereo audio breakout cable	1
USB3.0 cable	1
Installation CD ROM	1
Installation Guide (this document)	1
Quality Assurance Guide	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.

VC104XUSB Specifications

（V1.0）

Feature

- Simultaneously capture one HD signal, quad SD video signals, and dual analog audio signals.

- 1080p/60 Hz for HD signal input.
- HD DVI, VGA, HDMI and Component signals can be captured.
- It can capture the LPCM audio in HDMI
- Microsoft AVStream standard driver, support most multi-media video software or stream media software.

- Super small size: 98mm x 98mmx25mm (L/W/H).

Advanced Feature

- The VGA input support automatic detection of input video format, automatic detection of the effective area of video, automatic phase adjustment of capturing VGA.
- Offer safe mode for VGA signal, capture VGA signal which max line sampling number is not more than 4095.
- Support setting effective image area manually, it can be used for image flipping and supporting for the timing of special input signal.
- Supports for multi-stage image zoom and provides with three scales for image aspect ratio.
- Support multi-level image scale and have three scale models for image width and height ratio.
- De-interlace supports Vertical Blend and Motion Adaptive.

- Hardware color conversion, it can output RGB24，RGB32，YUY2，UYVY，I420.
- HD input supports color switch feature, it can adjust the contrast, brightness, hue, saturation, Gamma; also R, G, B brightness and contrast can be adjusted separately.
- Image vertical flip and mirror.
- Firmware can be updated.

Product Specification

Connection	
Host Interface	USB3.0 , *300-350MB/s transmission bandwidth
Input Interface	1 DVI-I interface (can switch to HDMI, VGA, YPbPr) 1 DB9 interface (can switch to quad CVBS+ dual stereo audio)
DVI Input	1 1080P/60HZ HD DVI signals
HDMI Input	1 1080P/60HZ HD HDMI signals
VGA Input	1 VGA
YPbPr Input	1 YPbPr
CVBS Input	Quad SD video signal
HDMI Audio Input	1 LPCM audio signal
Analog Audio Input	Dual analog audio signal
Standards	
DVI Input Formats	Meet DVI 1.0 standard, single connection (480i, 576i, 480p, 576p, 720p, 1080i, 1080p)
HDMI Input Formats	Meet HDMI 1.3 standards, support 36 bits DeepColor
YPbPr Input Formats	480i, 576i, 480p, 576p, 720p, 1080i, 1080p
VGA Input Formats	640×400-2048×1536 when the pixel rate is below 170MHz. Offer safe mode to VGA and can capture irregular resolutions.
CVBS Input Standards	PAL/NTSC
HD Output Formats	40×30-2048×1536, frame rate: 1-100 fps
SD Output Formats	176×144-768×576, frame rate: 1-30 fps

Analog Audio Sampling Rate and SNR	Up to 48KHz, 85db, 24-bit
Video Sampling Rate	CVBS:27MHz RGB/Component: 170MHz HDMI/DVI: 225MHz
Video Sampling precision	10 bits
Color Space	YUYV, UYVY, I420, 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 Saturation/black and white/ color control Gamma Adjustment Separate adjustment of brightness and contrast of R/G/B
Others	
Support Operating Systems	Support the following operating systems, including x86 and x64: 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 32 bits
Upgrade	Firmware can be upgraded
Size	98mm x 98mmx25mm(L/W/H)
Power Consumption	<= 3.5W
Working Temperature	0-50 deg C
Storage Temperature	-20-70 deg C
Storage Humidity	5%-90%

Standard Accessories
- DVI-I to HDMI + YPbPr breakout cable   1
- DVI-I to VGA adapter   1
- DB9 to quad CVBS+ dual stereo audio breakout cable 1
- USB3.0 cable 1

* Please note:
  1. The actual USB 3.0 transmission bandwidth is related to the chip and the mainboard of the computer and may be lower than the figure stated here.