XI101XE-HD Specification

（ V1.0 ）

Product Features

- It can simultaneously capture 1 full HD video signal and 1 SD/HD/3G-SDI video signal.
- The full HD input signal can reach 1080p/60 Hz.
- The SDI input signal can reach 1080p/60 Hz.
- The full HD capture includes DVI, VGA, HDMI and component signals.
- It can capture the LPCM audio signal embedded in the HDMI.
- It can capture the embedded audio signal in SD.
- It adopts Microsoft AVStream standard driver, and can support a majority of multimedia video software or streaming media software on Windows.
- Small size: 120.78mm x 68.88mm and Low-Profile.

Please note:
1. Due to copyright protection, users are not allowed to capture HD signals output by blue-ray player.

Advanced Features

- High performance DMA transmission.
- The input full HD signals can be dynamically switched: DVI/HDMI，VGA and component.
- DVI-I is compatible with composite (CVBS) input signals.
- The full HD input support automatic detection of input formats, effective video area and VGA capture phase adjustment.
- It supports manual setting of effective video area and can be used to clip image, and support sequence of special input signals.
- It supports multi-level image scale and provides three scale models based on the aspect ratio.
- It supports vertical filtering and motion-adoptive de-interface feature.
- The hardware switch can output YUYV, UYVY, I420, RGB24, RGB32 color formats.
- It supports color adjustment features, such as adjustment for contrast brightness, saturation, hue, Gamma; brightness and contrast for R, G, B can be adjusted individually.
- It includes image horizontal and vertical mirror features.
- Firmware can be updated.

Product Specification

Connection	
Host Interface	PCI-Express x4 , Low Profile , *700MB/s throughput
Input interface	1 DVI-I interface (can switch HDMI, VGA, YPbPr) 1 BNC interface (can connect SD/HD/3G-SDI)
DVI Input	1 1080P/60HZ HD DVI
HDMI Input	1 1080P/60HZ HD HDMI
SDI Input	1 SD/ HD/ 3G-SDI video signal, can reach 1080p/60HZ
VGA Input	1 VGA signal
YPbPr Input	1 YPbPr signal
CVBS Input	1 SD video signal
HDMI Audio Input	1 LPCM audio signal
SDI Audio Input	1 SDI embedded audio
Standard	
DVI Input	It meets DVI 1.0 standard, single connection (480i, 576i, 480p, 576p, 720p, 1080i, 1080p)
HDMI Input	HDMI 1.3, 36bit DeepColor
SDI Input	SD/HD/3G-SDI, SMPTE-259/274/296/372/424/425/292
YPbPr Input	480i, 576i, 480p, 576p, 720p, 1080i, 1080p
VGA Input	640×400-2048×1536, when the pixel rate is below 170MHz. provides safe mode to VGA signals and can capture irregular resolutions
CVBS Input	PAL/NTSC
HD output	40×30-2048×1536, frame rate: 1-100 fps
SD output	176×144-768×576, frame rate: 1-30 fps

Video Sampling Rate	CVBS: 54MHz (4x Oversampling) RGB/component: 170MHz HDMI/DVI: 225MHz SDI maximum sampling rate: 3G
Color Space	YUYV, UYVY, I420, RGB 24 Bits, RGB 32 Bits
Video Processing	
Color Space Switch	Hardware color switch
De-interlace	Vertical filtering de-interface; motion-adaptive de-interlace
Image Scale	Hardware 5-Tap scale
Image Mirror	Horizontal, vertical
Image Clip	Support
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 Systems	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 Windows 8
Software Compatibility	Windows Media Encoder Adobe Flash Media Live Encoder Real Producer Plus VideoLAN for Windows
Onboard Memory	256MB DDR2 @ 160 Mhz, bit width is 64 bits
Update	Firmware can be updated

Size	128.78mm x 68.88mm
Power Consumption	<= 6W
Operating Temperature	0-50 deg C
Storage Temperature	-20-70 deg C
Relative Humidity	5%-90 %

Standard Accessories
- DVI-I To HDMI + YPbPr breakout: 1
- DVI-I To VGA adapter: 1
- Low-Profile bracket: 1

Please note:
1. The actual transmission throughput is related to chipsets and motherboard of the host machine, which may be lower than the figures stated hereabove.
2. The actual output frame rate is limited by PCI-Express transmission throughout, and may be lower than the set figures.