



KV-CV180

SD/HD/3G-SDI to HDMI&VGA&AV Multifunction Converter



Overview

KILOVIEW® KV-CV180 SD/HD/3G-SDI to HDMI &VGA & AV broadcast grade converter is a professional converter which supports various formats SD/HD/3G-SDI to HDMI&VGA&AV conversion. KV-CV180 is compatible with SD SDI(270M), HD SDI(1.485G) and 3G SDI(2.97G) standard, built-in SDI re-clock circuit and circuit equalizer that can recover attenuation and distortion SDI signal after long-distance transmission.

KV-CV180 supports many image enhancement and handling technology such as color conditioning, 3D denoise, interlacing/progressive video conversion, video amplification/scale, frame rate convert to guarantee image conversion meet professional quality standards.

KV-CV180 could convert SDI signal to HDMI, VGA or CVBS signal (either port), then our products could process resolution ratio, frame rate and image scaling of different interface. Audio signal that embedded in SDI could embed to HDMI through separating and converting and simultaneously transmit to analog circuit output interface.

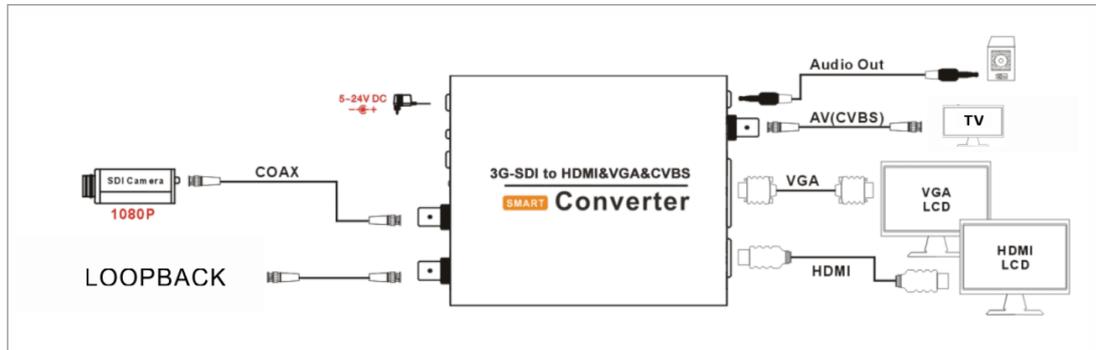
KV-CV180 supports HDMI/VGA DDC function and could self-adaptively output the best mode of HDMI/VGA. It supports remote control operation and could connect USB with PC for higher setup or firmware upgrading. KV-CV180 is equipped with free PC port management controlling software.

Our product KV-CV180 is widely applied in multimedia broadcast, program production and edit in broadcasting and television, HD video information release, HD video remote transmission, video conference, multimedia advertisement and video security monitoring and so on.

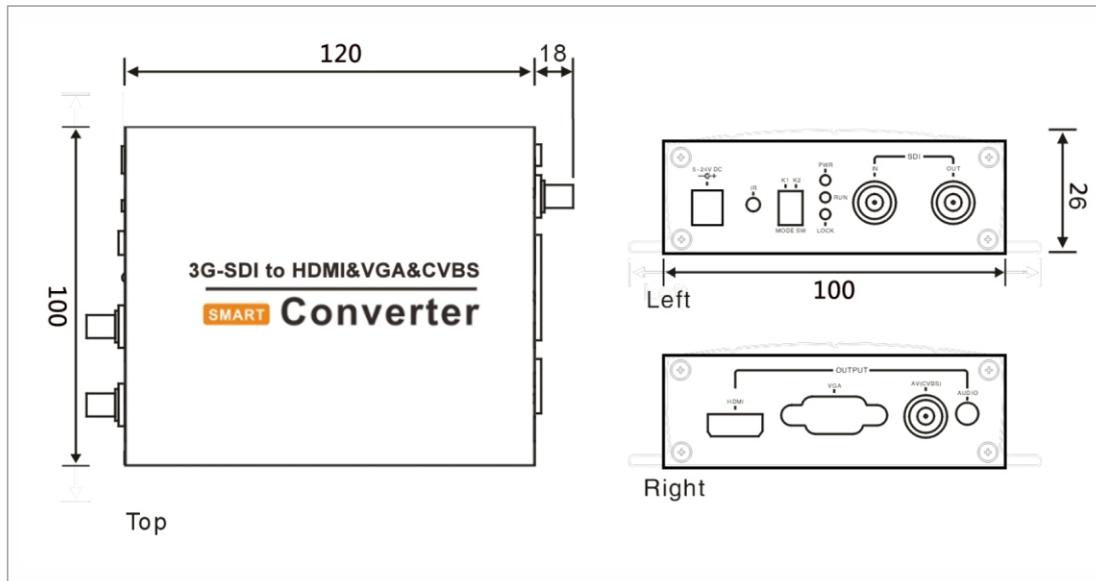
Features

- **Support any SDI input format:**
 - SD: 525i @ 59.94Hz, 625i @ 50Hz
 - HD: 720p @ 23.98Hz/24Hz/25Hz/29.97Hz/30Hz
720p @ 50Hz / 59.94Hz / 60Hz
 - 1080i @ 50Hz / 59.94Hz / 60Hz
 - 1080p @ 23.98Hz/24Hz/25Hz/29.97Hz/30Hz
 - 3G: 1080p @ 50Hz/59.94Hz/60Hz
- **Support SMPTE 425M, SMPTE424M, SMPTE292M;**
- **With 1 CH SDI signal loop;**
- **High quality 10bit YUV4:2:2 conversion, keeping color not distortion;**
- **Professional image enhancement, denoise, color conditioning, de-interlace and scaling;**
- **Support OSD and menu operation windows;**
- **Support HDMI DDC, self-adapt the best mode of HDMI/VGA;**
- **Support all above formats UP/DOWN interconversion; support Interlace/Progressive interconversion and frame rate convert;**
- **Blue screen warning when the signal loss;**
- **VGA specified output format: 720p/1080p;**
- **Embed SDI audio signal to HDMI signal automatically;**
- **Support AV(CVBS) signal output(PAL/NTSC standard optional);**
- **Support user to choose specified output format by remote-controller and set image output ratio.**

Application Notes



Panel Dimension



Specification

Model No.	KV-CV180
Input interface	1 × BNC SDI
Input signal type	SD-SDI(270Mbps),HD-SDI(1.485Gbps), 3G-SDI(2.97Gbps)
Support input format	525i 59.94,625i 50 720p 23.98/24/25/29.97/30/50/59.94/60 1080i 50/59.94/60 1080p 23.98/24/25/29.97/30/50/59.94/60
SDI signal amplitude	0.8Vp-p
SDI impedance	75 Ohm
SDI coupling type	AC
SDI signal jitter(typical)	SD-SDI ≤ 0.1UI HD-SDI ≤ 0.2UI 3G-SDI ≤ 0.4 UI
Maximum output coax length	Belden 1694A: SD-SDI 400m, HD-SDI 200m, 3G-SDI 140m Notice: Transmission distance depends on source quality and coax specification. This parameter is the value that Phabrix SDI tester making signal and transmit through Belden 1694A coax. It may be different in practical application.
SDI loopback interface	1*BNC SDI
HDMI output interface	1*HDMI
AV (CVBS) output	1*AV
VGA output	1*VGA
Frequency bandwidth	165MHz/comply standard (HDMI 1.3)
Dimensions	4.97x 3.94 x 1.02"/ 120 x 100 x 26mm
Weight	12.34oz / 350g
Operation temperature	14 to 140° F / -10 to 60° C
Storage temperature	-22 to 140° F / -30 to 60° C
Relative humidity	20-90% RH (Non-condensation)
Power supply	DC 12V, 1A