



KV-CV190

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



Overview

KILOVIEW®KV-CV190 HDMI&VGA&AV to SD/HD/3G-SDI multi-function converter is a professional converter which transforms various formats HDMI&VGA&AV (CVBS) to HD serial digital interface SDI signal. KV-CV190 could assign by hands or automatic identification of HDMI, VGA and AV (CVBS) input signal, and under the option of user configuration, converting video and audio to output SD/HD/3G SDI specified format.

KV-CV190 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-CV190 integrates with enhanced SDI circuit driver, under Belden 1694A and same cable quality conditions, ensuring SD SDI transmission distance 400 meters, HD SDI transmission distance 100 meters and 3G SDI transmission distance 100 meters. KV-CV190 also supports 2 channels output simultaneously.

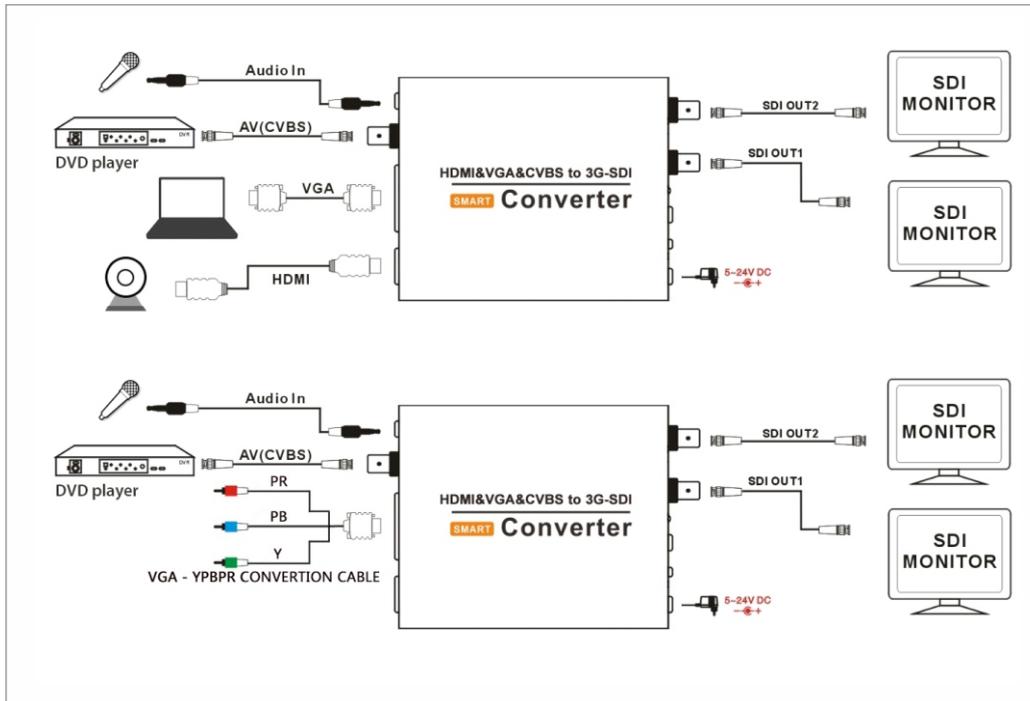
KV-CV190 supports HDMI audio separating or analog audio input (alternative), and embeds audio to SDI signal; supporting remote-control operation, supporting USB connecting to PC for higher setup or firmware upgrading. KV-CV190 is equipped with free PC port management control software.

KV-CV190 is widely applied in many fields such as broadcasting and TV program editing, HD video information release, HD video remote transmission, video conference, multimedia advertisement and video security monitoring and so on.

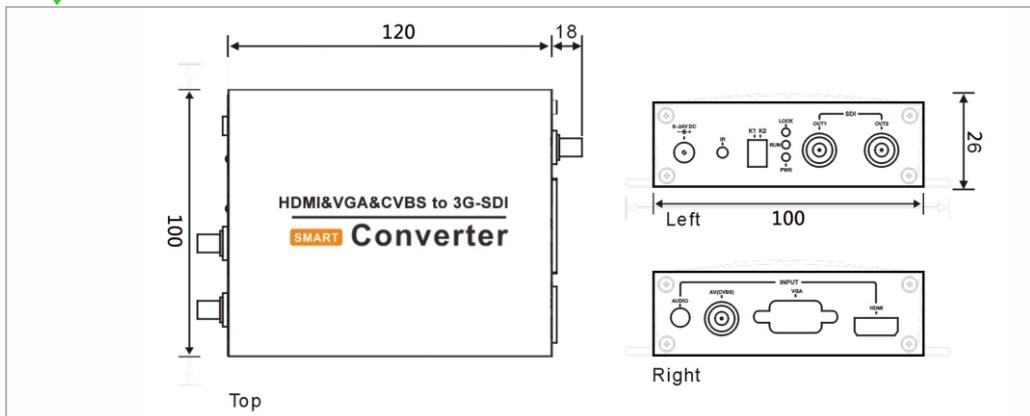
Features

- Support HDMI input format; 480i,576i,480p,576p,720p50/59.94/60, 1080p24/25/29.97/30,1080i 50/59.94/60,1080p 50/59.94/60;
- Compatible Up to 1920x1080@60HzVGA format;
- Support VAG resolution format max1920x1080@60Hz, compatible with various VESA standards and common non-VESA standard resolution format;
- Compatible with YpbPr video(from VGA interface, use the cable of VGA-YpbPr (equipped with converter) support format : 720p50/59.94/60、1080i50/59.94/60 and 1080p24/25/29.97/30/50/59.94/60;
- Support PAL(576i)/NTSC(480i) AV(CVBS) signal input;
- SDI output support SD, HD, 3G standard;
- With 2 channels SDI output (redundant output)
- Support HDMI DDC function, support HDCP content protection;
- Input to output format can be arbitrary scaling and frame rate conversion, supporting many image proportion models like maintaining, stretching and etc.
- Support Interlace to Deinterlace interconversion;
- Support HDMI audio or analog audio input;
- With remote control operation and menu on screen;
- Support OSD input/output signal format;
- Support lock the last screen when signal loss, lock and time-delay is adjustable, option blue/black screen warning when signal loss;
- Option semaphore: stripped, gridding, white screen, blue screen, gray gradual change etc. is convenient to adjust by monitor;
- Anti-static, anti-surge and lightning protection.

Application Notes



Panel Dimension



Specification

Model No.	KV-CV190
Input interface HDMI	1 × HDMI
Input interface VGA	1 × VGA / with VGA-YPbPr converting cable, support YPbPr signal input
Input interface AV (CVBS)	1 × AV
Audio input	1 × 3.5mm dual sound track analog audio 1Vp-p
Frequency bandwidth (HDMI)	225MHz/comply standard (HDMI 1.3)
Support input format	HDMI: 480i,576i,480p, 576p, 720p@50/59.94/60, 1080i@50/59.94/60, 1080p@24/25/29.97/30, 1080p50/59.94/60, compatible VGA format up to 1920x1080@60Hz VGA: Max 1920x1080@60Hz, supporting all VESA standard and common non-VESA standard resolution format YPbPr: (use cable of VGA-YPbPr) support 720p50/59.94/60, 1080i50/59.94/6 and 1080p24/25/29.97/30/50/59.94/60 format AV (CVBS): PAL(576i) / NTSC(480i)
Output interface	2 × SD/HD/3G-SDI
Output signal type	SD-SDI(270Mbps), HD-SDI(1.485Gbps), 3G-SDI(2.97Gbps)
SDI signal amplitude	0.8Vp-p
SDI impedance	75Ohm
SDI coupling type	AC
SDI timing jitter	SD SDI: ≤ 0.15UI HD SDI: ≤ 0.8UI 3G SDI: ≤ 2.0UI
SDI adjusting jitter	SD SDI: ≤ 0.15UI (1KHz) HD SDI: ≤ 0.2UI (10KHz) 3G SDI: ≤ 0.3UI (10KHz)
Maximum output coax length	Belden 1694A: SD-SDI 400m, HD-SDI 200m, 3G-SDI 140m Notice: the test result will be different due to the above transmission distance is depend on different coax
Dimensions	4.97x 3.94 x 1.02"/ 120 x 100 x 26 mm
Weight	12.34oz / 350g
Power supply	DC 12V, 1A
Operation temperature	-10° C ~ 60° C
Storage temperature	-30° C ~ 60° C
Relative humidity	20~90% RH (Non-condensation)