

## USER MANUAL

### VCF-005PEA

#### Broadcast level SD/HD/3G-SDI to HDMI&AV Converter with USB



Our Broadcast level SD/HD/3G-SDI to HDMI&AV(CVBS) is designed according to broadcast requirement This device is used to convert HD-SDI signal to HDMI and AV display with analog audio independent audio output

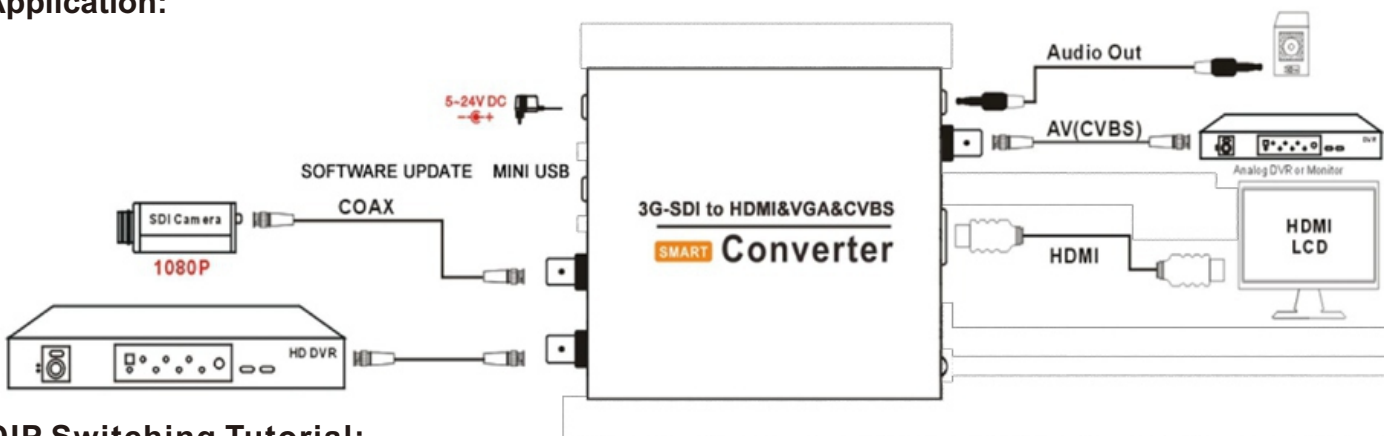
#### Features

- \* Up,Down or Cross scaling from SD/HD/3G-SDI to HDMI by dip switch or soft
- \* Automatically format switch from HD-SDI to HDMI &AV Auto-detecting NTSC/PAL output
- \* 2Ch professional balance analog audio Output from HD-SDI signal de-bedding
- \* HD-SDI format :  
480i,576i,525i,625i ,720P50/59.94/60 ,1080P23.98/24/25/29.97/30  
1080i50/59.94/60 , 1080P50/59.94/60
- \* Support SMPTE 425M(A and B level) · SMPTE424M ;  
SMPTE292M · SMPTE259M-C ;
- \* Support HDMI 1.3a, HDCP 1.3 ,HDMI EDID-learning
- \* LED indicator : Power, SDI input detected, HDMI detected
- \* Power supply :DC12V,1A

## Technical Specifications

Modle	SD/HD/3G-SDI to HDMI&CVBS Converter
Input interface	1X SD/HD/3G-SDI ( 1X SD/HD/3G-SDI Loop-out)
Standard	SD-SDI(270Mbps), HD-SDI(1.485Gbps), 3G-SDI(2.97Gbps)
Format	SMPTE-259/274/292/296/372/424/425
Output format	480i,576i,480p, 576p, 720p@50/59.94/60,1080i@50/59.94/60, 1080p@24/25/29.97/30, 1080p50/59.94/60
SDI Latitude	0.8Vp-p
SDI Impedence	75OHM
SDI Couple	AC
SDI Jitter value(typical)	SD-SDI≤0.1UI HD-SDI≤0.2UI 3G-SDI≤0.4 UI
Distance	Belden 1694A: SD-SDI 400m · HD-SDI 200m · 3G-SDI 140m
Output interface	
HDMI1.3A	1×HDMI
CVBS	1×BNC-F
Audio (Two channel analog audio 1Vp-p)	1×3.5mm phone jack
HDMI bandwidth	165MHz/ ( HDMI 1.3 )
Color Encoding	4:2:2 YUV
Input format	480i,576i,480p, 576p, 720p@50/59.94/60,1080i@50/59.94/60, 1080p@24/25/29.97/30, 1080p50/59.94/60 · AV ( CVBS ) : PAL(576i) / NTSC(480i)
USB interface	USB2.0 / firmware upgrade or switch format soft
Power supply	5~24VDC
Measure ( mm )	156*100*36
Weight	520g
Working Temperature	-10 -- + 80
Storage temperature	-20-- + 70

## Application:



## DIP Switching Tutorial:



Output Side

SDI to HDMI&CVBS Smart Converter	
DIP switching tutorial	
DIP	ON = DOWN
1	DIP Enable
2	CVBS: PAL
3	HDMI: RGB Colorspace
4	AUTO CONV.
SEE BELOW	
5-8 COMB	5 6 7 8
	OFF OFF OFF OFF - 720p60
	ON ON OFF OFF - 480p
	OFF OFF OFF ON - 720p59
	ON ON OFF ON - 576p
	OFF OFF ON OFF - 720p50
	ON ON ON OFF - 480(525i)
	OFF OFF ON ON - 1080p30
	ON ON ON ON - 576(625i)
	OFF ON OFF OFF - 1080p25
	ON ON OFF ON - 1080p60
	OFF ON ON OFF - 1080p59
OFF ON ON ON - 1080p50	
ON OFF OFF OFF - 1080i60	
ON OFF OFF ON - 1080i59	
ON OFF ON OFF - 1080i30	
ON OFF ON ON - NA	