

## USER MANUAL

### VCF-009ES

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



Our Broadcast level HDMI& AV(CVBS) are designed to broadcast system and this device is used to convert HDMI and composite video with analog audio to SD HD 3G-SDI display and also support USB interface to upgrade product or format switch by our soft

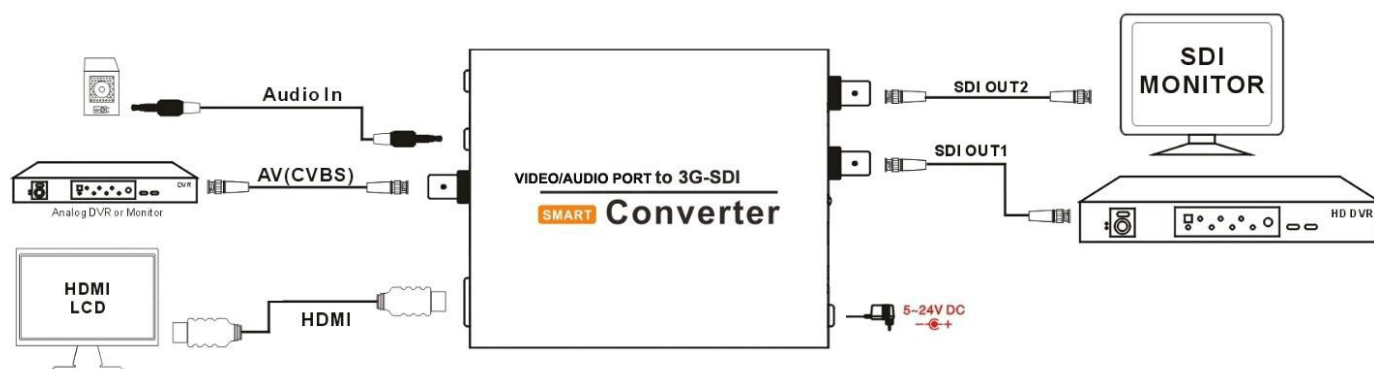
#### Features

- \* Convert AV signal to SD/HD/3G-SDI signal
- \* Auto-learning input AV format : NSTC or PAL
- \* SDI Output format: All SDI Formats
- \* 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 (A level and B level),  
SMPTE424M, SMPTE292M, SMPTE259M-C.Carry  
1 channel SDI signal loop out.
- \* Max. cable length (Belden 1694A): SD-SDI 400m/1300ft,  
HD-SDI 200m/600ft, 3G-SDI 140m/450ft
- \* Support HDMI DDC and HDCP1.0/1.2
- \* Support scale function :force any resolution output by OSD

## Technical Specifications

|                        |                                                                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                  | HDMI&AV to SD/HD/3G-SDI converter                                                                                                                                                                                                           |
| Input Interface        | 1x BNC (75ohm)                                                                                                                                                                                                                              |
| Output Signal Type     | SD-SDI (270Mbps), HD-SDI (1.485Gbps),<br>3G-SDI (2.97Gbps)                                                                                                                                                                                  |
| Support output Format  | SD: 525i @ 59.94Hz, 625i @ 50Hz<br>HD: 720p @ 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz<br>720p @ 50Hz / 59.94Hz / 60Hz<br>1080i @ 50Hz / 59.94Hz / 60Hz<br>1080p @ 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz<br>3G:1080p @ 50Hz / 59.94Hz / 60Hz |
| SDI Signal Range       | 0.8V p-p                                                                                                                                                                                                                                    |
| SDI Impedance          | 75 ohms                                                                                                                                                                                                                                     |
| SDI Coupling Type      | AC Coupling                                                                                                                                                                                                                                 |
| Max. Input Coax Length | Belden 1694A<br>SD-SDI 400m / 1300ft ; HD-SDI 200m / 600ft ;<br>3G-SDI 140m / 450ft                                                                                                                                                         |
| HDMI input interface   | HDMI                                                                                                                                                                                                                                        |
| HDMI format            | 482i,576i,720p50/60,1080p25/30 ,1080i50/60,1080p50/60                                                                                                                                                                                       |
| Input interface        | AV (BNC)                                                                                                                                                                                                                                    |
| AV (CVBS) Format       | CVBS: PAL / NTSC                                                                                                                                                                                                                            |
| Power Supply           | DC 12V                                                                                                                                                                                                                                      |
| Power Consumption      | 3~6 Watts                                                                                                                                                                                                                                   |
| Operating Temperature  | 32°F ~ 104°F / 0°C ~ 40°C                                                                                                                                                                                                                   |
| Storage Temperature    | -4°F ~140°F / -20°C ~ 60°C                                                                                                                                                                                                                  |
| Relative Humidity      | 20~90% RH (Non-condensation)                                                                                                                                                                                                                |

## Application:



## DIP Switching tutorial:



OFF= UP , ON=Down

Dip 1&2 : Output Resolution / Source Port selection ( By manual setting )

| 1   | 2   | Function        | 1   | 2   | Function            |
|-----|-----|-----------------|-----|-----|---------------------|
| OFF | OFF | Auto Resolution | OFF | OFF | Auto Port Selection |
| OFF | ON  | 720p60          | OFF | ON  | HDMI                |
| ON  | OFF | 1080P30         | ON  | OFF | Idle                |
| ON  | ON  | 1080P60         | ON  | ON  | CVBS                |

Upper Dip switching is default setting ,Pleas use our embedded management soft to control input or output resolution or Dip setting by connect the converter to PC .