

## Analog Video to 3G/HD/SDI Converter

Lightem Systems analog video to HD video converter can convert analog video to 3G-SDI/HD-SDI HD digital video or SD-SDI SD digital video and is with analog audio embedder function. Lightem Systems analog video to HD video converter has high supreme signal precision, high supreme stability, high supreme reliability, which is a ideal digital video converter for TV station, CMMB,IPTV, mobile TV, mobile phone TV, telecommunication operator, government video conference system and other new media field.



## FEATURES

- Convert analog video to 3G-SDI/HD-SDI video
- Functions with analog audio embedder
- Compliant with the standards of SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
- Auto adaption to the speed of SDI
- 143/177/270/360/540/1483.5/1485/2970Mbps
- When signal output, with driver function
- When signal output, with re-clocking function
- Perfect LED indicators design, very convenient to monitor device work well or not
- PCB boards made with environment friendly Pb-free
- PCB boards made with multilayer design, to ensure stable and reliable signal conversion
- All components, including connectors, are ordered from public-known manufacturers in the world, high stability and reliability ensurance
- Enclosure box material is made of aluminum, elegant appearance, and light weight
- Switching power supply design, wide voltage range, reliable long-term running
- Mini box design, small and exquisite, convenient to setup and operate
- Can manually adjust the resolution

## APPLICATIONS

- HD Video at TV Stations
- Telecommunication Operators
- Government Video Conference
- New Media Field

## SPECIFICATION

|                                       |  |
|---------------------------------------|--|
| <i>Analog Video Input</i>             |  |
| <i>Standard</i>                       | PAL,NTSC,525/625 Lines   |
| <i>Channel Number</i>                 | 1  |
| <i>Input Level</i>                    | 0.6-1.6Vp-p  |
| <i>Color Delay</i>                    | <10ns  |
| <i>Differential Gain</i>              | <1.0%  |
| <i>Differential Phase</i>             | <0.7 degree  |
| <i>SNR(Weighted)</i>                  | >70dB  |
| <i>Connector</i>                      | BNC 75 Ohms  |
| <i>Analog Audio Input</i>             |  |
| <i>Channel</i>                        | 2  |
| <i>Frequency response</i>             | 20Hz-20KHz@-0.5dB  |
| <i>Max input level</i>                | 17.4Vp-p(+18dBm)   |
| <i>Isolation</i>                      | >90dB@1kHz, >90dB@20kHz  |
| <i>Input impedance</i>                | 600Ω   |
| <i>Connector</i>                      | XLR  |
| <i>3G/HD/SDI Digital Video Output</i> |  |
| <i>Channel Capacity</i>               | 1  |
| <i>Standard</i>                       | SMSMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M |
| <i>Signal Level</i>                   | 800mVp-p±10%   |
| <i>3G-SDI Rise/Fall Time</i>          | <135ps@2970Mbps  |
| <i>HD-SDI Rise/Fall Time</i>          | <270ps@1485Mbps  |
| <i>SDI Rise/Fall time</i>             | <0.6ns@270Mbps   |
| <i>3G-SDI Jitter</i>                  | <0.3UI   |
| <i>HD-SDI Jitter</i>                  | <0.2UI(134ps)@100kHz, <1.0UI(673ps)@10Hz <0.2UI(740ps)@10Hz        |
| <i>SDI Jitter</i>                     | <0.2UI(740ps)@1kHz   |
| <i>Impedance</i>                      | 75Ω  |
| <i>Connector</i>                      | BNC  |
| <i>Physical</i>                       |  |
| <i>Dimension(HxWxD,mm) Mini box</i>   | 44×200×164   |
| <i>Power Supply</i>                   | 130 - 260VAC, 50-60Hz, 19-inch 1RU box                             |
| <i>Temperature</i>                    | 0 to +50 Degree  |
| <i>Humidity</i>                       | 0 to 95% RH Non-condensing   |
| <i>LED Indicator</i>                  | Power, Video detect and lock                                       |

## ORDERING INFORMATION

| P/N      | DESCRIPTION                         |
|----------|-------------------------------------|
| LBAVHSDI | Analog Video to 3G/HD/SDI Converter |