

# AUDIO VIDEO SYSTEM

## Lightem Systems LBAVA Series Broadcast Quality 1, 2, 4, & 8-channel Video 2, 4, 8 & 16-channel Audio Digital fiber optic Transmission System

Lightem Systems LBAVA-1 is high performance digital fiber optic transmission system supports 1-channel composite analog video and 2-channel analog audio.

Lightem Systems LBAVA-2 is high performance digital fiber optic transmission system supports 2-channel composite analog video and 4-channel analog audio.

Lightem Systems LBAVA-4 is high performance digital fiber optic transmission system supports 4-channel composite analog video and 8-channel analog audio.

Lightem Systems LBAVA-8 is high performance digital fiber optic transmission system supports 8-channel composite analog video and 16-channel analog audio.



LBAVA: 1



LBAVA: 2

### FEATURES

- PAL (625/50) and NTSC (525/60) standard auto-recognition
- Video 10 bits A/D conversion, audio 20 bits A/D conversion
- Video AGC (auto gain control)
- Audio output balance/unbalance can be transformed automatically
- ESD(Electric Static Discharge) functionality, more safer , more stable
- Transmission distance up to 120 km without relay



LBAVA: 4

### APPLICATIONS

- TV program signal transmission
- Video conference system
- Remote multimedia studio
- Distance learning system



LBAVA: 8

### SPECIFICATION

| Video              | LBAVA-1 | LBAVA-2 | LBAVA-3       | LBAVA-4 |
|--------------------|---------|---------|---------------|---------|
| Channel Number     | 1       | 2       | 4             | 8       |
| Bandwidth          |         |         | 7MHz          |         |
| Signal Resolution  |         |         | 10Bits        |         |
| Input Level        |         |         | 0.6-1.6Vp-p   |         |
| Output Level       |         |         | 1Vp-p         |         |
| Video Standard     |         |         | 525/625 lines |         |
| Color Delay        |         |         | <10ns         |         |
| Differential Gain  |         |         | <1.0%         |         |
| Differential Phase |         |         | <1 degree     |         |
| SNR(Weighted)      |         |         | >70dB         |         |
| Connector          |         |         | BNC 750hms    |         |

# AUDIO VIDEO SYSTEM

| Audio                  |                                           |   |   |    |
|------------------------|-------------------------------------------|---|---|----|
| Channel Number         | 2                                         | 4 | 8 | 16 |
| Operating Mode         | Balance/Unbalance                         |   |   |    |
| Signal Resolution      | 20Bits                                    |   |   |    |
| Input/Output Impedance | 600/50 Ohms(balance)                      |   |   |    |
| Max Input/Output Level | 17.4Vp-p(+18dBm)                          |   |   |    |
| Frequency Response     | 20Hz-20KHz @ -0.2dB                       |   |   |    |
| THD                    | <0.2%                                     |   |   |    |
| SNR(Weighted)          | >88 dB @ 1KHz                             |   |   |    |
| Channel Insulation     | >90dB @ 1kHz, >90dB @ 20 kHz              |   |   |    |
| Connector              | XLR                                       |   |   |    |
| Physical               |                                           |   |   |    |
| Dimension(HxWxD)       | 43×430×230 (mm)                           |   |   |    |
| Power Supply           | 130 - 255VAC,50-60Hz                      |   |   |    |
| Operating Temperature  | 0 - +50°C                                 |   |   |    |
| Humidity               | 0 - 95% RH, non-condensing                |   |   |    |
| LED Status Indicator   | Power, Optical Link, Video/Audio Activity |   |   |    |
| Optical                |                                           |   |   |    |
| Fiber Type             | Single mode or Multimode                  |   |   |    |
| Number of fiber        | 1                                         |   |   |    |
| Wavelength             | 1310nm and/or 1550nm                      |   |   |    |
| Fiber Optic Connector  | FC/PC                                     |   |   |    |
| Transmission Distance  | 0-120km                                   |   |   |    |

## ORDERING INFORMATION

| P/N     | DESCRIPTION                                                                                                              |
|---------|--------------------------------------------------------------------------------------------------------------------------|
| LBAVA-1 | Lightem Systems LBAVA Broadcast Quality 1-channel Analog Video + 2-channel Analog Audio fiber optic Transmission System  |
| LBAVA-2 | Lightem Systems LBAVA Broadcast Quality 2-channel Analog Video + 4-channel Analog Audio fiber optic Transmission System  |
| LBAVA-4 | Lightem Systems LBAVA Broadcast Quality 4-channel Analog Video + 8-channel Analog Audio fiber optic Transmission System  |
| LBAVA-8 | Lightem Systems LBAVA Broadcast Quality 8-channel Analog Video + 16-channel Analog Audio fiber optic Transmission System |