

## GAV Series Digital Video/Audio Optical Equipment

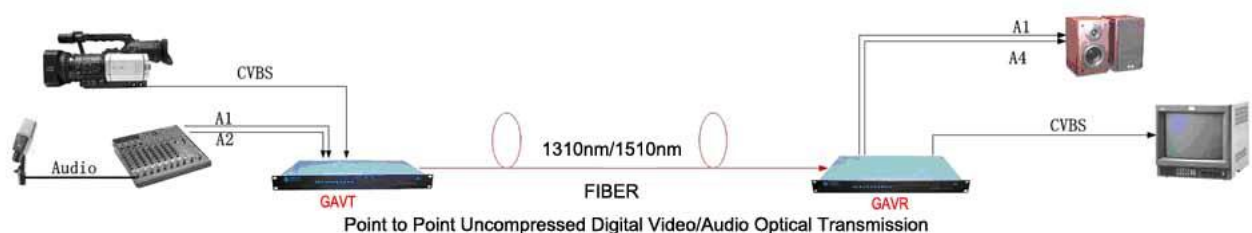


The GAV series digital video/audio optical equipment is made up of Greatway GAVT optical transmitter and GAVR optical receiver. The input to the GAVT optical transmitter can be 1 video with 2 audios, 2 videos with 4 audios, 4 videos with 8 audios. The analog video is converted into data in 10bit A/D and the audio is converted into data in 20bit A/D. The uncompressed muxed video/audio data is transmitted to the GAVR receiver, which outputs the high quality analog video and audio.

### Features:

- | 10bit video conversion and 20bit audio conversion
- | Wide dynamic video AGC supports 0.6V~1.6V video input level
- | Audio output can be balanced/unbalanced auto switching with ESD protection
- | Maximum fiber distance up to 120Km
- | System topology can be point to point or point to multi-point

### Applications:



## Specifications

Video Input		Audio Input	
Video Channel	1 or 2 or 4	Audio Channel	2 or 4 or 8
Video Level	0.6~1.6 V <sub>P-P</sub>	Max. Audio Level	17.4 V <sub>P-P</sub> (+18dBm)
Video Impedance	75Ω	Audio Bandwidth	20Hz~20 KHz
Connector	BNC	Audio Impedance	600Ω
		Connector	XLR
Optical Parameter			
Wavelength	1310 nm/1550 nm or CWDM wavelength		
TX power	-12dBm~3 dBm		
RX sensitivity	-32dBm~-3 dBm		
Transmission	20Km, 40Km, 60Km, 80Km, 100Km+		
Connector	SC/PC		
Video Output		Audio Output	
Video Channel	1 or 2 or 4	Audio Channel	2 or 4 or 8
Output Level	1 V <sub>P-P</sub>	Maximum Level	17.4 V <sub>P-P</sub> (+18dBm)
SNR	> 71dB	SNR	> 86 dB (unweighted)
Differential Gain	< 1%	Harmonic Distortion	< 0.2 %
Differential Phase	< 1°	Bandwidth	20Hz~20 KHz @-0.5 dB
Flatness	±0.2dB to 5.75MHz	Audio Channel Isolation	> 90 dB @ 1KHz
Lum/Chr Delay	< 10ns		> 90 dB @20KHz
Impedance	75Ω	Impedance	40Ω
Connector	BNC	Connector	XLR
<b>Operation Temperature</b>		0~45°C	
<b>Power Supply</b>		AC 95~265V, 50/60Hz	
<b>Power Consumption</b>		<20W	
<b>Dimension</b>		430×230×43 (mm)	

## Ordering Information:

**GAV-AB-CD-E** (e.g. GAV-24-60)

**A:** Analog video channel number 1 or 2 or 4

**B:** Analog audio channel number 2 or 4 or 8

**CD:** Fiber distance 20-20Km, 40-40Km, 60-60Km, 80-80Km, 100-100+Km

**E:** Optional CWDM wavelengths