

VGA & Stereo Audio CAT5 Extender With Chainable Output

ITEM NO.: VE10DAL, VE02ALR, VE02DALS



VE010DAL is designed for VGA +Stereo Audio/Digital Audio signal over cost effective CAT5 cable to instead of VGA and Audio cable. VE02AL/VE02DALS receiver built in chainable output/skew corrector to cascade the other receiver for working range over 300 meters. It is optimum video performance under long cable run and perfect for multiple monitor display.

This AV Extender is the smart, fast and cost-effective, eliminates costly and bulky VGA and Audio cable and the most efficient way to move multimedia content from player to display. Used in pairs, the VGA & Audio Extender is used in Shopping malls, public address systems, airports, train & bus station, boardrooms, trade shows, computer based training application.

VE10DAL 1 in 11 Out VGA & Stereo/Digital Audio CAT5 Extender Distribution Amplifier In 1U Rack Mounting Panel

- Extends and distributes VGA and stereo/digital audio over one UTP CAT5 cable.
- Supports up to 1600x1200 @85Hz.
- Long range transmission up to 300 meters (Max.)
- Dual output: 1 VGA loop output for local, plus 10 x CAT5 RJ45 output for remote side.
- Built in one loop out allows cascading connection multi units for larger display system.
- Built in EDID and auto back up Monitor EDID.
- Audio by digital encoding process for sound undistorted.
- Digital audio support coax and optical input, auto selection.
- CAT5 receiver option model: VE02ALR, VE02DALS.

Option Model:

VE02ALR VGA with Stereo Audio CAT5 Receiver– Chainable function

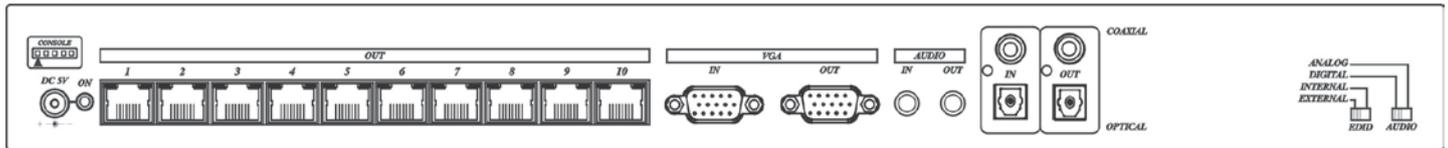
- Work with VE02ALT, VE05ALT as receiver for extra remote VGA display equipment.
- It could be daisy chained for another VE02ALR to extended working range over 300 meters and multiple displays.
- Built in equalization, gain adjustment.
- Supports up to 1600x1200 @85Hz.

VE02DALS VGA & Stereo/Digital Audio CAT5 Receiver– Built in Skew Corrector

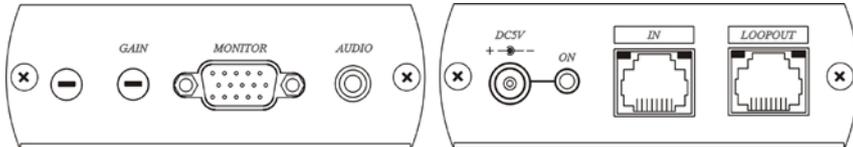
- Work with VE01T, VE02T, VE05T, VE02DAT, VE02ALT, VE05ALT CAT5 VGA transmitter as a high quality receiver.
- Built in RGB skew adjustment for the optimum video performance under long cable run.
- It could be daisy chained for another VE02DALS to extended working range over 300 meters and multiple displays.
- Built in analog audio, digital audio output (coaxial, optical)
- Built in equalization, gain adjustment.
- Supports up to 1600x1200 @85Hz.
- Digital transmission on analog stereo audio for sound undistorted.
- support LPCM 44.1K 、48K 、96K / 16bit stereo decode function, digital and analog could simultaneously output. Dolby Digital (AC3) and DTS digital output supported.

Panel View:

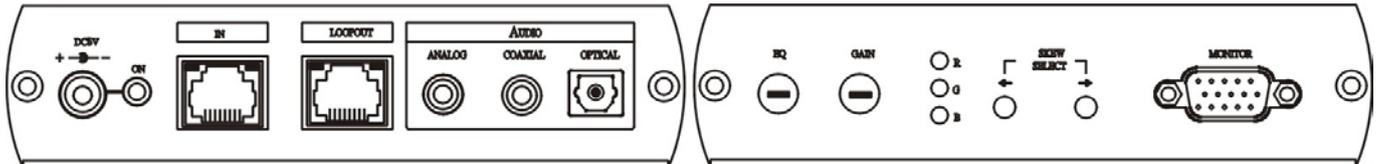
VE10DAL



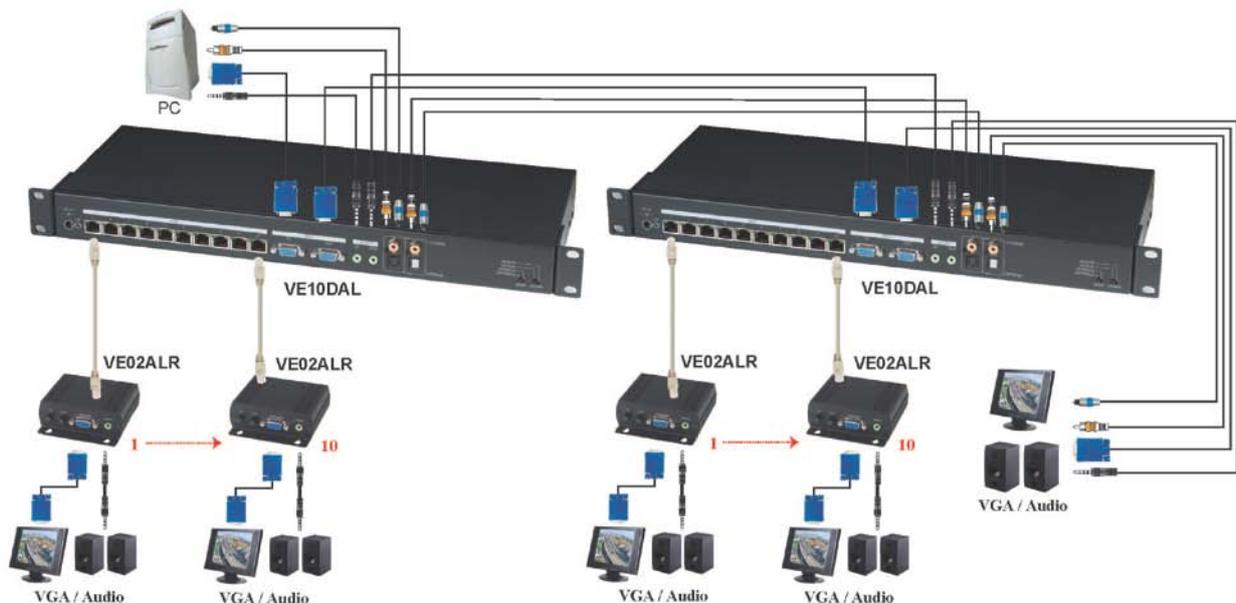
VE02ALR



VE02DALS



View of installation:



Cable:

Video Link cable use high quality CAT5E UTP/STP or CAT6 UTP cable.

Please noted STP cable could enhance noise rejection, but also less transmission range and picture sharpness quality.

RJ45 Define:

Link Cable (TIA/EIA-568-B)

- | | |
|-----------------|---------------|
| 1. Orange-white | Video Blue - |
| 2. Orange | Video Blue + |
| 3. Green-white | Video Green - |
| 4. Blue | Audio + |
| 5. Blue-white | Audio - |
| 6. Green | Video Green+ |
| 7. Brown-white | Video Red- |
| 8. Brown | Video Red+ |

Connection Port:

VGA IN	VGA signal input
VGA OUT	VGA signal LOOP OUT output
AUDIO IN	Analog stereo audio input.
AUDIO OUT	Analog stereo audio input LOOP OUT output
COAXIAL IN	Coax digital audio input.
COAXIAL OUT	Coax digital audio LOOP OUT output
OPTICAL IN	Optical digital audio input
OPTICAL IN	Optical digital audio LOOP OUT output
OUT 1 – 10	Remote Cat.5e output
DC 5V	Power input
CONSOLE	Reserve

LED Indication:

Bule	Power ON/OFF.
RJ45 Green	ON/OFF Video Signal
	Flash Non-Detected Sync Signal
RJ45 Yellow	ON/OFF Digital Audio Signal
	Flash Analog Audio input distortion

ON/OFF Instruction:

EDID	←	Use external (Loop Out) EDID.
	→	Use Internal default EDID.
AUDIO	←	select digital audio input
	→	select analog audio input

Auto Backup EDID:

If VGA Loop Out connect with local monitor, the VE10DAL will auto backup its EDID. When EDID mode switch with external EDID and also not connect with monitor, it will jump to previous EDID for computer recognition use.

Auto Selection Digital Audio Input:

When audio input select "digital audio", it will auto select the audio signal with input one, either from coax or optical fiber.

When optical fiber and coax both with digital audio input, it will select optical fiber as priority.

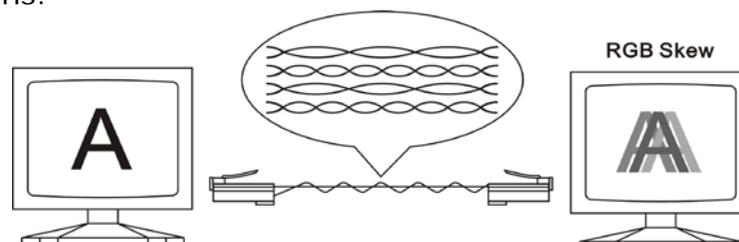
When digital audio input disconnect over 0.5 seconds, it will auto re-detect the new digital audio input source.

Caution:

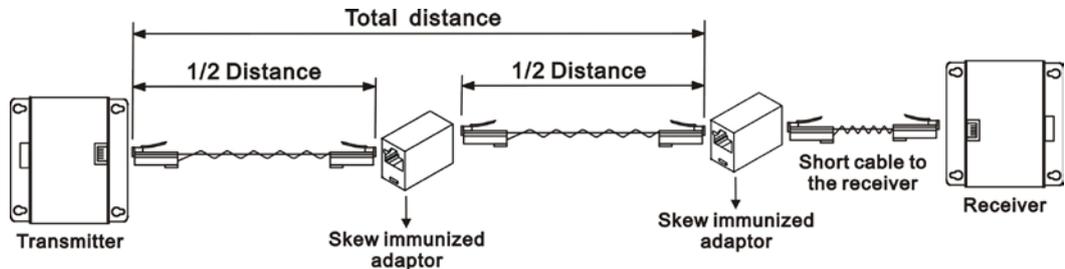
1. The wiring must away from any equipment with electromagnetic wave, i.e.: microwave, cell phone, wireless AP, radio equipment, power lines in order to avoid interference or affect picture quality , reliability.

Installation Tips:

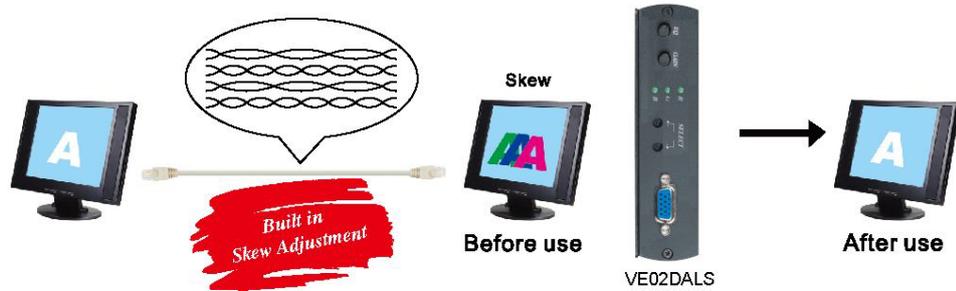
Due to the inside of CAT5 cable that the pairs of wires are twisted at different rates, AND the different quality on cable itself and installation that will cause different signal arrival time at each pair. If there are big different at arrival time, that will cause RGB skew status. This is seen on the monitor as separation, or lack of convergence in colors. Normally it happens on long CAT 5 cable runs.



1. Recommend to use following cabling way to reduce skew status, to add special made "skew immunized adaptor", 2 pieces included at the package.



2. Recommend to change VE01R CAT5 receiver to VE02DALS, which built in RGB skew adjustment for the optimum video performance under long cable run. It also could be daisy chained for another VE02DALS to extended working range over 300 meters and multiple displays



Specification:

ITEM	VE10DAL
Resolution	Up to 1600 x 1200 @ 85 Hz
Video Bandwidth	Loop Out 500MHz (-3dB) / Cat.5e Out 350MHz (-3dB)
Video Input / Output	R & G & B Video 75Ω 1Vp-p / H & V Sync TTL
Video Connector	DB15 x 2
Audio Bandwidth	20-20Khz (-3dB)
Audio Input / Output	10KΩ 3Vp-p (Max), 75Ω SPDIF
Audio Connector	3.5mm Stereo Phone Jack x 1, COAXIAL:RCA x2 / OPTICAL x1
Power Supply	5V DC 2000mA
Power Consumption	1500mA (Max)
Dimensions mm	483 x 177 x 44 (1U)
Weight g	1870

ITEM NO.	VE02ALR	VE02DALS
Resolution	Up to 1600 x 1200 @ 85 Hz	
Video Bandwidth	150MHz	122MHz(-3dB)
Video Output	RGB Analog, 75Ω, 0.7Vp-p	
Sync Output	H/V Separated, 5V TTL	
Horizontal Frequency	30-95 KHz	
Vertical Frequency	50-180 Hz	
VGA Connector	DB15 x 1	
Audio Bandwidth	20-20KHz (-3dB)	
Link Connector	RJ45 x 2	
Analog Audio Output	10KΩ, 3Vp-p (Max)	
Analog Audio Connector	3.5mm Stereo Phone jack x 1	
Digital Audio Connector	X	Coaxial RCA x 1 (75Ω) · Optical x 1
Skew Adjustment	X	0 – 62ns (2ns Step)
Max Distance	Up to 1000 ft. (300M)	
Power Supply	5V DC 2000mA	
Power Consumption	700mA (Max)	1000mA (Max)
Dimensions mm	88 x 95 x 30	125 x 95 x 30
Weight g	205	285

