

PRODUCT OVERVIEW

The KDA is a high quality audio/video distribution amplifier, allowing one video and audio source to simultaneously supply up to four other devices. It uses very high quality high bandwidth IC's to ensure that each output is indiscernible from the input, making it ideally suited to multiple copying applications. It also features a "line drive" option, allowing video to be sent over abnormally long cable runs.



INSTRUCTIONS FOR USE

Plug a suitable power adapter into the DC input socket and the power LED will illuminate. Connect the source into the individual sockets on the front panel, (use either the composite video or S-Video socket, but not both), Route the matching output sockets on the rear to the equipment. If you are using long cable runs then use the "line drive" switch on the front panel, (see below).

LINE DRIVE FEATURE

This function gives an equalised overall boost to video level with emphasis at colour and detail frequencies sufficient to neutralise the effect of losses in the cable. With the correct cable this feature can successfully drive video through up to 100M of cable per output. As a rule of thumb, switch the line drive on when using cable lengths greater than 10M, (or 5M with naff cable).

NOTES

The KDA is an amplifier only and it will not convert from S-VHS to composite or vice-versa. When monitoring the output from the KDA through a VCR the effect of the line drive may not always be apparent because of the VCR's automatic gain control. If possible monitor the output directly before deciding to use line drive. Only one video input (composite or SVHS) may be used at a time. The Elantec IC's are a high current high bandwidth power IC and it is perfectly normal for them to get warm during operation. For best results use good quality, correctly graded audio and video cables for every connection.

TECHNICAL SPECIFICATION

- Power requirements By external supply to DC input socket, (2.1mm centre positive) 12-18v DC @ 300mA or greater.
- Video 4 buffered video outputs
- Bandwidth – 50MHz
- Level - Composite / Luminance 1v pp, Chrominance 0.3v peak to peak.
- Distortion components < -50db up to 10Mhz
- Open circuit voltage gain is X2 (unity gain when correctly terminated)
- Back terminated series 75R out puts for reflection free performance
- DC coupled on Composite video and Luminance outputs
- AC coupled on Chrominance output
- Slew rate up to 1000v/uS
- Uses Elantec EL2099 military spec high current video IC for optimum performance
- Audio 4 buffered audio outputs
- Distortion <0.1%
- Bandwidth 20Hz – 30KHz
- Output impedance, 1K ohms each output
- Input impedance >10K ohms
- Unity gain