

## Vi-A12 Distribution Amplifier



### 1 Overview

The Vi-A12 Distribution amplifier accepts 1,2,3 or 4 video inputs identified as A, B, C and D. Each input has associated amplifiers that drive three video outputs:-

- Input A drives outputs A1, A2 and A3.
- Input B drives outputs B1, B2, and B3.
- Input C drives outputs C1, C2, and C3.
- Input D drives outputs D1, D2, and D3.

Each section is completely separate and may be used for the same or different video sources. Configuration switches on the underside of the unit make this a very flexible product.

Configuration switches allow inputs to be linked so that three, six, nine or twelve outputs can be driven from a single video input.

Termination on each input can be switched. If inputs are linked, termination should be off on all but one of the linked inputs.

When inputs are linked, the input connectors that are not being used for the video input may be used for loop-through, for example to gang units. If such loop-through is required, termination should be off on all inputs.

### 2 Switch Settings

1	Terminate input A
2	Terminate input B
3	Terminate input C
4	Terminate input D
5	Link Inputs A & B
6	Link Inputs B & C
7	Link Inputs C & D
8	Not used

## 3 Standard Configurations

### 3.1 Single mode: 1 input to 12 outputs

Connect video source to input A. Switches 1,5,6,7 ON switch 2,3,4 OFF.

### 3.2 Dual mode: dual 1 input to 6 outputs

Connect video sources to input A and C. Switches 1,3,5,7 ON switch 2,4,6 OFF.

### 3.3 Quad mode: quad 1 input to 3 outputs

Connect video sources to input A,B,C and D. Switches 1,2,3,4 ON switch 5,6,7 OFF.

### 3.4 Mixed Mode1: 1 input to 6 outputs and dual 1 input to 3 outputs

Connect video sources to input A, C and D. Switches 1,3,4,5 ON switch 2,6,7 OFF.

### 3.5 Mixed Mode2: 1 input to 9 outputs and 1 input to 3 outputs

Connect video sources to input A and D. Switches 1,4,5,6 ON switch 2,3,7 OFF.

### 3.6 Ganging multiple units: 1 input to 24, 36, 48, 60, 72, 84, 96 outputs

Unit 1: Connect video source to input A. Switches 5,6,7 ON switch 1,2,3,4 OFF.

Unit 2: Connect Unit 1 Input B (loop through) to Input A. Switches 1,5,6,7 ON switch 2,3,4 OFF.

Unit 3,4,5 etc : Connect prior Unit Input B (loop through) to Input A. Switches 1,5,6,7 ON switch 2,3,4 OFF.

## 4 Specification

- 4 Inputs, PAL, 75 Ohms, 1V pk-pk, BNC
- 12 Outputs, PAL, 75 Ohms, 1V pk-pk, BNC
- Gain 0dB  $\pm$ 0.5dB (when terminated with 75 Ohms)
- DIP switch for configuration
- Flexible configuration
  - Single mode: 1 input to 12 outputs
  - Dual mode: dual 1 input to 6 outputs
  - Quad mode: quad 1 input to 3 outputs
  - Mixed Mode1: 1 input to 6 outputs and dual 1 input to 3 outputs
  - Mixed Mode2: 1 input to 9 outputs and 1 input to 3 outputs
- Switchable input termination
- Loop-through on inputs allows expansion up to 1 to 96 and beyond
- High quality amplifiers with DC restoration on all inputs
- Individual power regulators for low cross-talk between channels
- Bandwidth 7MHz ( $\pm$ 1dB)
- High reliability, cool running
- Robust metal enclosure
- Dimensions: 180mm x 42mm x 200mm (WxHxD)
- 12V power input, 160mA
- Mains power supply included: 90 to 264Vac 50/60Hz 5W
- Temperature: 5 to 35deg C (operating), -10 to 40deg C (storage)
- Humidity: 5 to 95% non-condensing
- Manufactured in the UK