

D VA 5720

SDTV / HDTV

SERIES 5000

CardModules

SD/HD Dual Analog Video Distribution Amp.

Description

The D VA 5720 is a flexible solution for high quality SD and HD analog video or Sync distribution which can be used as a dual 1>4 amplifier or a single 1>8 device. This module is ideally suited for demanding high quality broadcast and professional video applications.

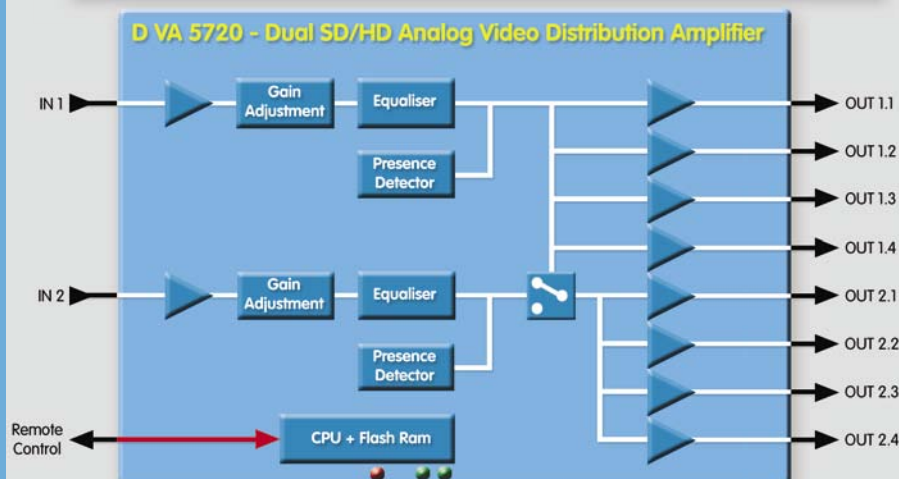
Each channel has digitally adjustable video gain and equalization provided for system calibration with input signal presence detection for SD or HD video. Inputs can be AC or DC differential coupled with or without input clamping (selected by links on the module)

The module can also function as a Sync DA, handling both HD Tri-level or SD Bi-level sync inputs.

Microprocessor control and on board flash ram enable configurations and settings to be stored within the module (through power cycles and module removal). Local control capability is provided via the integrated dip switch and multifunction switch. Remote control, status monitoring and error reporting is possible when using the LYNX control system.

Features

- Single 1>8 or dual 1 > 4 Channel operation
- Wide band amplifier for both SD and HD analog video
- Signal presence detection.
- Adjustable video gain.
- Adjustable Cable equalization.
- Selectable input clamp.
- Selectable AC or DC coupled differential inputs.
- Can be used as SD/HD Tri Level sync DA
- Microprocessor controlled with internal flash ram for storing configuration.
- Remote control, status monitoring and error reporting possible when used with LYNX control system.
- Full SNMP support when used with master controller option.
- Hot Swappable.



Backplane

SD/HD Dual Analog Video Distribution Amplifier

Specifications

Video Inputs

Signal Type	Video: SD or HD Analog video Sync: SD or HD (tri-level) Sync
Input coupling	Differential AC or DC (selectable via on-board jumpers)
Input Impedance	75 Ohms
No. Of inputs	1 (with passive loop through)
Connector	BNC
Input clamp	ON/OFF selection via on-board jumpers
Return loss	> 31dB to 10MHz
Common mode rejection	> 65dB to 10KHz
Max input Level	2v (peak to peak)

Video Outputs

No. Of Outputs	Dual Channel: 2 x 1 > 4 Single Channel: 1 x 1 > 8
Signal Type	Analog Video
Return loss	46.5dB to 10MHz
Phase match	< 0.1 degrees at 4.43MHz
Response variation	< 0.15dB to 8 loads
Connector	BNC
Output Impedance	75 Ohms
Adjustment range	-3.2dB to +3.6dB in 256 increments

Performance

Frequency response	+/- 0.1dB to 30MHz, -3dB at 66MHz
Differential gain	< 0.60%
Differential phase	< 0.4 degrees
Hor / vert tilt	< 0.5%
Signal to noise ratio	> 69dB to 17MHz (RMS noise/700mv, unweighted)
Hum	< 0.5 mv
Gain	-3.2dB to +3.6dB in 256 increments
Cable Equalization	Adjustable for up to 200m SDTV or 100m HDTV using Belden 8281
Control	Local settings using on board dip switches and push buttons. Remote control possible when used with LYNX controller
Status monitoring (LED)	SD/HD Signal presence / general alarm

Electrical Specifications

Operating Voltage	12 VDC
Power Consumption	< 3W
Safety	IEC 60950/ EN 60950/ VDE 0805

Mechanical

Size	283mm x 78mm
Weight	CardModule 120g, connector plate 50g

Ambient

Temperature	5°C to 40°C Maintaining specifications
Humidity	90% Max non condensing

Specifications subject to change

Settings and Control

Local Settings

Adjustment selection	Gain or Equalization
Unity selection	Yes / No
Adjustment	Adjust gain or equalization UP/DOWN

Settings Available from Control System

Local controls duplicated. No additional parameters provided via the control system

On Board Indicators / LEDs

Signal Present / No input
General Alarm Indicator – 3 Color

Ordering Information

Model #	Part Number	Description	Includes
D VA 5720	6155005620	SD/HD Dual Analog Video Distribution Amp	CardModule, Rear termination Panel, + Mounting Screws, and Reference Manual