

CVG-3V/3S/3AB

CVG-3Vxl/3Sxl

Video/s-Video/Audio Distribution Amplifiers

The **CVG-3V/xl**, **CVG-3S/xl** and **CVG-3AB** series distribution amplifiers are high quality, state-of-the-art DAs, designed for use in studios, shops, showrooms and other demanding applications. Each unit in the series splits one signal input to 3 acceptors.

The **CVG-3V/xl** distributes either a composite or a single video “component” signal, the **CVG-3S/xl** machine distributes Super-Video (YC), and the **CVG-3AB** distributes stereo or Balanced mono audio channels.

All units in this series are compact units, fed externally from any 12V DC supply, therefore, they are ideal for field operation.

Operation

- Connect all inputs to the source to be distributed, taking care to use the right high quality cables.
- Connect all outputs to the acceptors, again using high quality cables, turn on all units - sources, acceptors and the **CVG-3V(xl)/3S(xl)/3AB** units and you are ready to go!
- If you have the **CVG-3Vxl** or the **CVG-3Sxl** your distribution system may be easily extended by using the looping option of the machines. Use a “T” connector, loop the inputs of all the machines in the chain. Each machine will provide you with 3 additional outputs. Release the termination switches on all the machines but the last in the chain. In this setup you will have 3 outputs from each and

every DA you are using (if you use 5 machines for example, you’ll have 15 outputs).

- If you have the **CVG-3V**, **CVG-3S** or **CVG-3AB**, you may cascade two machines to increase the number of outputs, e.g., connect video or audio source to the input of the first machine, and then each of its outputs to the inputs of other DAs, thus creating a 1:9 DA using four machines.

Uses

The **CVG-3V/xl**, **CVG-3S/xl**, **CVG-3AB** series distributors can be used in the following applications:

- Studio use for duplicating one source to several acceptors.
- Shops and showrooms for distributing one source to several areas.
- Security and other CCTV applications.
- Field operation for monitor distribution.

Application Hints

- You may loop several **CVG-3Vxl** or **CVG-3Sxl** in order to increase system capability.
- You may connect in series several of the **CVG-3V/3S/3AB** DAs to increase the number of outputs.
- As all units are DC operated, thus they can be used in field operation.
- Insert a **CVG-3V/xl** or a **CVG-3S/xl** in a video line to force AC coupling when DC coupling causes problems.

Technical Specifications:

	CVG-3S / CVG-3Sxl	CVG-3V / CVG-3Vxl
Function	1:3 s-Video DA	1:3 Composite/Single Component Video DA
Input	1 s-Video, 1Vpp/75ohm (Y), 0.3Vpp/75ohm (C) on a 4P connector	1 Composite Video, 1Vpp/75ohm, on a BNC connector
Output Type	3 s-Video, 1Vpp/75ohm (Y), 0.3Vpp/75ohm (C) on 4P connectors	3 Composite Video, 1Vpp/75ohm, on BNC connectors
Output Coupling	AC	AC
Controls	Termination Switch (CVG-3Sxl only)	Termination Switch (CVG-3Vxl only)
S/N Ratio	70dB (80 dB for CVG-3Sxl)	73dB (77dB for CVG-3Vxl)
Video Bandwidth	60 MHz -3dB (Y); (200 MHz -3dB, Y, CVG-3Sxl)	60 MHz -3dB; (430 MHz -3dB, CVG-3Vxl)
Max. Output	2Vpp (Y)	2Vpp
Diff. Gain	0.03%	0.05%
Diff. Phase	0.03Deg.	0.13Deg.
K-Factor	0.4% (0.3% for CVG-3Sxl)	<0.5% (0.2% for CVG-3Vxl)
Dimensions (W, D, H)	11.7cm x 6cm x 3.2cm 4.6" x 2.4" x 1.3"	11.7cm x 6cm x 3.2cm 4.6" x 2.4" x 1.3"
Weight	0.240kg (0.53lbs) Approx.	0.28kg (0.62lbs.) Approx.
Power Source	12VDC, 70mA	12VDC, 50mA

Please note that if the output signal is disturbed or interrupted by very strong external electromagnetic interference, it should return and stabilize when such interference ends. If not, remove the power from the machine and reapply it to reset the machine.

The socket-outlet shall be installed near the equipment and shall be easily accessible. To fully disconnect equipment, remove power cord from its socket - if the machine is fed off a wall transformer.

CVG-3V/xl CVG-3S/xl CVG-3AB INSTRUCTION MANUAL