



VA50-A12

audio frequency
induction loop systems

Automotive / In-vehicle Loop

VA50-A12 Loop

Fully compliant with EN60118-4

The **VA50-A12** is an induction loop amplifier specifically for use in automotive applications such as coaches, buses, trains, taxis and cars. It has been designed for simple installation and easy adjustment. Loops can be installed behind the head-lining (for cars), around the entire passenger compartment for coaches etc, or at passenger entry points for buses. Contact Vivid Acoustics to discuss your specific requirements.

Fit and Forget

Once installed the **VA50-A12** is literally a “Fit & Forget” solution.

All units feature the distinctive logo, which makes them instantly recognisable.



Power & Loop Active Indication

The top face of the amplifier houses two brightly coloured LEDs. The “Power” LED illuminates to indicate that the **VA50-A12** is connected to the vehicle supply, whilst the “Active” LED will flicker during use indicating that speech is being received and is being transmitted by the induction loop.

Inputs

The **VA50-A12** has one microphone input and one stereo line level input as standard, and is supplied with a high quality boundary layer microphone. The line level input can be driven from any suitable on-board audio system, e.g. car stereo, AV entertainment system, PA etc. The Balance between the two inputs can be adjusted to provide the desired audio mix, prior to the Gain being set to the required drive level.

Connections

Power and loop connections to the **VA50-A12** are via a latching automotive grade connector, whilst audio connections are via 3.5mm jack sockets.

Area coverage:	up to 50m ²
Audio inputs:	1 microphone, 1 stereo line level, with balance adjustment
Phantom power:	5V for electret condenser microphones
Frequency response:	Flat frequency response <100Hz to >5kHz (exceeds the requirements of EN60118-4 and BS 7594: 1993)
Supply voltage:	13.8VDC nominally

VA50-A12 Specifications

Set-up & Operation

Once the balance and gain controls have been adjusted to give the desired audio level, there are no other user adjustments required. Simply follow the installation instructions in the user guide supplied.

Power supply

The **VA50-A12** will operate normally over the standard range of supply voltages found on all 12V vehicles.

Technical Information

Overall dimensions:	185mm x 87mm x 45mm
Weight:	220g
Finish:	ABS, fine textured
Fixing holes:	For 2 off No.8 screws on a 140mm pitch
Colour:	Black.
Inputs:	1 microphone input with 5V phantom power, via a mono 3.5mm jack socket 1 stereo line level input, via a stereo 3.5mm jack socket
Output:	Current driven, via a latching automotive style connector
Output current:	0.9A _{RMS} average 3.0A _{RMS} (125ms peak)
Loop resistance:	0.1 to 1 ohm
Dynamic range:	> 60dB
THD+N:	< 0.5% (amplifier only)
DC input:	13.8V nominal @ 1A maximum
Operating temp:	0°C to +45°C. Unit must be kept dry
Storage temp:	-20°C to + 45°C. Unit must be kept dry
Approvals:	EN50081-1: 1992 EN61000-3-2: 2000 EN61000-3-3: 1995, A1: 2000 EN61000-6-1: 2001 EN60950: 2000

The product herewith complies with the requirements of Directives 89/336/EEC; 1995/5/EC and 73/23/EEC; 1995/5/EC and carries the CE-marking accordingly.

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