



VL1

12V VEHICLE INDUCTION LOOP AMPLIFIER

C-TEC's new VL1 induction loop amplifier is specifically designed to help hearing aid users communicate more effectively in cars, taxis, buses and other motor vehicles.

Timed to coincide with the Disability Discrimination Act's new 'Provision and use of transport vehicles supplement' (published December 2006), the amplifier includes two 3.5mm jack inputs (microphone and line), both with their own level controls, and a metal compensation feature which can be used to offset the frequency problems associated with running an induction loop close to metal.

Two kitted versions are available the VL1/B1 12V kit and the VL1/B2 24V kit.

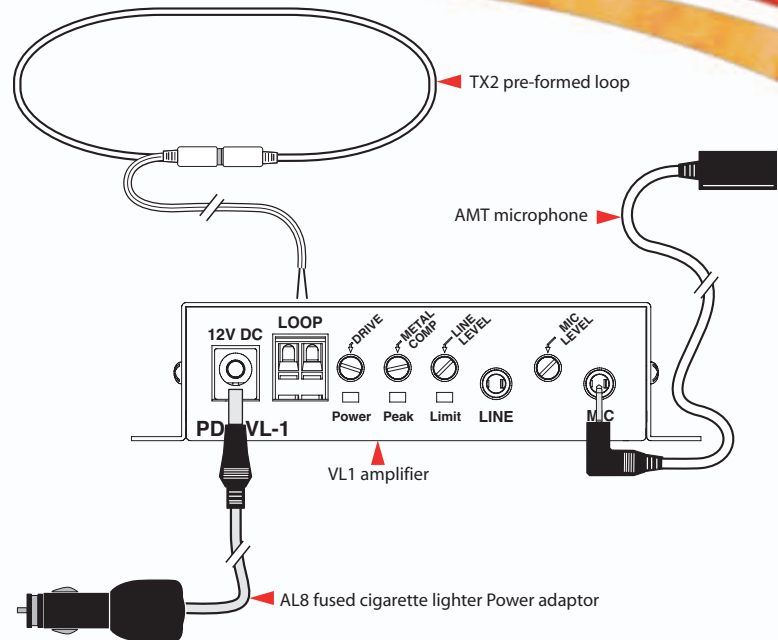
Measuring just 120mm wide, 31mm high and 60mm deep, the VL1 is ideal for dashboard mounting. It includes three indicators - Peak, Limit and Power On - and meets or exceeds the requirements of BS7594 and EN60118-4 when correctly installed.



- Ideal for cars, taxis, buses and other private/commercial vehicles
- Generates a loop listening field of approximately 1.2m²
- Available in two kit formats
- VL1/B1 12V kit includes:-
 - 1 x VL1 amplifier
 - 1 x TX2 pre-formed loop
 - 1 x AMT microphone
 - 1 x AL8 fused cigarette lighter power adaptor
 - 1 x 'AFILS' fitted sticker
- The VL1/B2 24V kit includes:-
 - 1 x VL1 amplifier
 - 1 x TX2 pre-formed loop
 - 1 x AMT microphone
 - 1 x 24V to 12V convertor
 - 1 x AL7 2.5mm DC power plug to bare ended lead
 - 1 x 'AFILS' fitted sticker
- Compact amplifier ideal for dashboard mounting
- Optional VL9 lead available for connecting the amplifier's line input to a vehicle's audio system
- Includes one 3.5m microphone input and one 3.5mm line input
- Metal compensation control helps offset the frequency response problems associated with vehicle loops
- User-adjustable drive, mic level and line level controls
- Includes Power On, Peak and Limit indicators
- Fully compliant with BS7594 and EN60118-4 when correctly installed

VL1/B1 wiring overview

Full details can be found in the VL1 12v Mini audio-frequency induction loop amplifier instructions (approved document No. DCM0003479 Rev 0)



POWER REQUIREMENTS

Rated supply voltage and current	12V DC
Rated power consumption	500mA

INPUTS

MICROPHONE	
Input connector	3.5mm stereo jack
Input Impedance	1k Ω
Input voltage	-60dB
LINE	
Input connector	3.5mm mono jack
Input impedance	100k Ω
Input voltage	-27dB stereo unbalanced

OUTPUT

Type	Current mode
Loop connector	2-way push terminal
Cable	Use the TX2 pre-formed loop supplied in our VL1/B1 and VL1/B2 kits
Loop coverage	1.2m ² (using the TX2 pre-formed loop)
Maximum RMS output current	1A
Maximum peak output current	2A
Maximum RMS load voltage	4V

PERFORMANCE

Total harmonic distortion	<0.5%
Frequency response -1dB	120Hz – 16kHz
Frequency response -3dB	120Hz to 5kHz as per IEC 60118-4
Signal to noise ratio	-60dB A weighted (reference maximum RMS current, maximum gain)
AGC range	3dB change in output current, reference rated input voltage: 10dB

INDICATORS & CONTROLS

LED indicators	Power LED, Limit LED, Peak LED
Controls	Mic Level control, Line Level Control, Metal Compensation Control, Drive current control.

DIMENSIONS & WEIGHT

W x H x D (VL1 amplifier only)	120mm x 31 mm x 60 mm
Weight	220g (amplifier only)