



Univox[®] DLS-50

Compact and powerful induction loop amplifier
for TV/music/microphone

User Guide



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Introduction

Thank you for having chosen a Univox® product. We hope you will be satisfied!

Univox® DLS-50 is a compact yet powerful loop amplifier for wireless listening through your hearing aid.

Connect your TV, stereo, MP3, a microphone or any other sound source that you want to hear clearly to the three inputs. Then complete the installation by connecting your choice of loop pad, sofa loop cable, room loop cable and/or headphones.

The Univox® DLS-50 box contains loop amplifier and switched power supply as well as the chosen loop solution (see pictures at first page).

You can buy accessories making it possible to use your Univox® DLS-50 in even more ways. For example you can connect Univox® DLS-50 to the 12V/cigarette lighter output in your car and with an extra loop pad and a ramification cable it's possible for two persons to share one amplifier. Accessories that are available for this product are listed in the section Accessories.

Please read this user guide carefully before installation and use of this product. All Univox® amplifiers have a very high output current capability resulting in powerful and secure products fulfilling existing standards, IEC 60118-4.



Loop pad

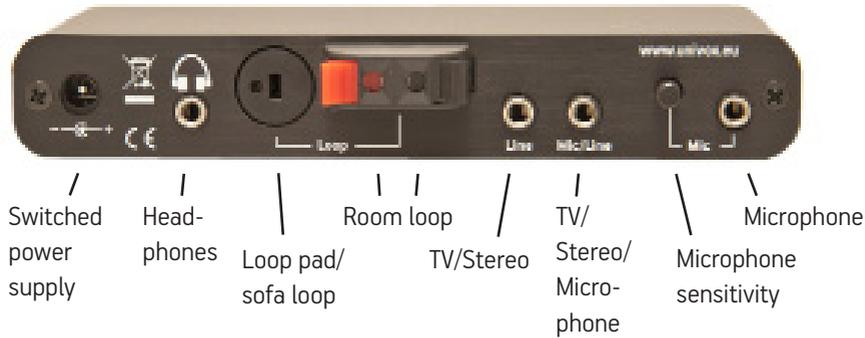


Sofa loop cable



Room loop cable with
50 clips

Functions, buttons and controls



Place the amplifier and connect the chosen loop solution

Place the loop amplifier in a suitable place near the TV/stereo. If there is a need, use the velcro pads included to fasten the amplifier to the side or back of the TV. The amplifier has a very efficient cooling and can therefore get hot in use, as the metal case leads off the heat from the electronics. For this reason, avoid the amplifier coming in contact with delicate materials.

Loop pad

Put the loop pad under/on the cushion in the sofa/chair where you want to sit when watching TV. Connect it to the DIN output in the rear panel.

Sofa loop

Attach the sofa loop underneath the sofa (be careful if you use a stapler) or put the loop on the floor around the sofa, for example underneath the carpet under the sofa. Connect it to the DIN output in the rear panel.

Room loop

The loop cable can for example be attached with the clips included on the floor trim along the walls of the room. It can also be placed under the carpet or in the ceiling. The loop should not be positioned at mid height (approx. 1 m above the floor) as this will influence the performance of the system. Connect the wire ends at the loop terminal in the rear panel. Wire area = 0,33mm².

See the outputs in the rear panel at the previous picture.

Connect Univox® DLS-50 to your TV and/or other sound source

Univox® DLS-50 has two inputs (3.5mm) that can be used to connect your TV, stereo or other sound source and a special microphone input (3.5mm), which makes it possible to pick up the sound from the speaker of the TV. The microphone input level can be adjusted for this input.

See the outputs in the rear panel at the previous picture.

Start by controlling your TV's audio outputs and the outputs of the other input sources you want to connect. Consult the manual for each source for information on audio outputs (RCA, Scart etc.)

Purchase the right cable/s if you haven't done that in connection with the purchase of your Univox® DLS-50. You find a list of cables and other related parts in section Accessories.

Connect your TV and/or other sound sources to the Univox® DLS-50 with the chosen cable according to the following guidelines:

TV/other sound sources

Connect TV, stereo etc. to the line input (Line). If you want to connect both TV and for example stereo, use the line input (Line) for one of the sound sources and the combined mic/line input (Mic/Line) for the other sound source.

If you watch TV by cable/satellite and also have a VHS or DVD player, we recommend to connect an automatic Scart control (AutoScart, read more in section Accessories). For connection to the TV's Scart output an ordinary Scart cable can also be used with a Scart connector at one end and a 3.5mm connector at the other end (Scart2, see section Accessories).

If you instead want to connect the audio output of your TV (RCA) to the amplifier, purchase an audio cable with double RCA connectors at one end and a 3.5mm connector at the other end (Audio cable, see section Accessories). To connect your stereo to the Univox® DLS-50 you need the same cable.

Microphone

If a microphone should be used, for example to make it possible for someone else to talk to you while using the loop, it should be connected to the special microphone input (Mic). The microphone shall be an electret type microphone (13B or 13C, see section Accessories).

It's also possible to pick up TV or stereo sound by attaching a special microphone on the speaker grid (13A, see section Accessories). This microphone is normally connected to the combined mic/line input (Mic/Line) but can also be connected to the special mic input (Mic) if you want to adjust the input level. Take off the paper cover of the loose round velcro pad and attach it to the speaker grid of the TV. Then use the attached velcro pad on the microphone to attach it onto the speaker. The microphone will then automatically be directed inwards and pick up the sound from the speaker. If you want to pick up the sound of a surround system with the 13A microphone, attach it to the centre speaker.

Switched power supply

Connect the switched power supply to the output for mains power in the rear panel (12V AC/DC). Finally connect the power supply to a power outlet.

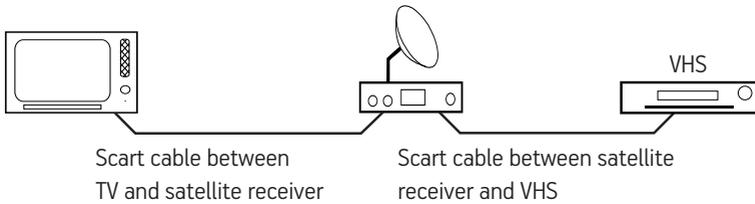
Automatic Scart connection

If you want to connect Univox® DLS-50 to the Scart output of your TV you should start with buying a special Scart connector, Univox® AutoScart. Univox® AutoScart always gives you the right sound in the loop, regardless if you watch TV through your digibox, cable or satellite or watch DVD or VHS (part no. 284016, see section Accessories).

If you already have a Univox® AutoScart, be sure that your TV works as intended with your VCR/DVD/satellite receiver/digibox. All units connected to your TV's Scart output must be serial connected (see example of serial connection below). If there are several Scart outputs on your TV you shall always connect Univox® AutoScart to the Scart output no. 1 on your TV.

Following a proper connection the sound and picture on your TV will automatically change to the program source you have chosen. This means that if you start your VCR sound and picture automatically change to the VHS movie. In the same way the sound and picture in your TV will automatically change to the sound and picture from the unit you have started if you start the DVD player, satellite receiver or digibox.

Serial connection TV / Satellite / VHS



Adjusting sound level, tone and microphone sensitivity

When all connections are done the indicator for mains power on the right in the front panel should light steadily. The system is now active and ready to use. It's now time to make your personal adjustments of loop current (volume), bass, treble and microphone sensitivity to receive the best possible sound intelligibility. Start by putting your hearing aid/s in T position.

Sound level

The sound level in the loop is adjusted with the volume control (thumb wheel) in the front panel. The level can be adjusted up or down according to the conditions on site and to your specific hearing deficit. Adjust the thumb wheel until you receive a comfortable level. It can be recommended to make a note of the ideal level for future reference.

Bass and treble:

You can adjust bass and treble if needed by using the two controls in the front panel. If it's hard to turn the controls by hand, use a small screwdriver. Adjust the controls until desired sound balance is achieved.

Microphone sensitivity

If a microphone is connected to the amplifier the input level of the microphone might need adjustment. This is done with the control located at the special microphone input (Mic) in the rear panel. Proceed as follows: Turn on your TV at desired volume or speak into the microphone. Adjust the control until the indicator at the left in the front panel lights up in program peaks or when somebody speaks into the microphone. Now the right level is set.

Attention!

If no microphone is connected to the mic input the sensitivity control should be turned to the left to avoid poor sound intelligibility.

Indication lights and controls



There are three blue LED's in the front panel to indicate that all functions of the amplifier work in a proper way:

Mains power

The mains power indicator is placed on the right side of the front panel. If this LED is lit the amplifier is correctly connected to the mains outlet and the amplifier is ready for use.

Correct microphone level

To the left the LED for indication of the microphone sensitivity of the mic input is located. If the mic sensitivity control is correctly set, this LED shall light up at program peaks. If no microphone is connected this LED is disabled.

Loop current

At the centre of the front panel the LED for loop current is located. This LED is blinking according to the program material and indicates that the loop is not broken. Please note that this LED only indicates that there is current floating in the loop, not that the level is sufficient.

The volume thumb wheel and the bass and treble controls are also located at the front panel.

Listen to music with headphones

Univox® DLS-50 with its built-in automatic volume control (AGC) is developed for superior speech intelligibility when used as a loop amplifier. However, while listening to music with your hearing aid/s in T position, the sound might be unsatisfactory. This happens because most hearing aids limit certain frequencies, for example bass tones, which might result in a flat sound without nuances.

You can receive a richer more nuanced sound if you take off your hearing aid/s and instead listen to the music with headphones connected to the headphones outlet in the rear panel. The quality enhancement resulting from listening with headphones depends on the type of hearing impairment you have and the type of headphones you use.

Security/warranty

Basic knowledge in audio and video installation techniques is required to achieve existing regulations. The installer/planner is responsible for the installation hereby avoiding any risk or cause of fire.

Please (also) note that warranty is not valid for any damage or defects on the product due to incorrect or incautious installation (or usage).

Maintenance

Under normal circumstances the product does not need any special maintenance.

Should the unit become dirty, swipe it with a clean damp cloth. Do not use solvent or strong detergents.

Trouble shooting

If the loop amplifier does not perform satisfactory, check the following:

Does the mains power indicator light? If not, control that the transformer is correctly connected to the power outlet and to the amplifier.

Does the loop current indicator light? As this indicator lights it's a guarantee that the system works. If not, check that the loop pad, sofa or room loop is not broken and correctly connected. Check also all other connections.

Attention! If headphones are connected the loop current indicator is disabled.

The loop current indicator lights but there is no sound in the hearing aid/headphones: check that the M-T-0 switch of the hearing aid is in T or MT mode. Also check the status of your hearing aid batteries.

Bad sound quality? Adjust the loop current, bass and treble controls. Bass and treble adjustment should normally not be needed.

Service

Should the system not work after having made the product test as described above, please contact the local distributor of the product for further instructions. If the product should be sent to Bo Edin AB, please enclose a filled Service Form, www.Univox.eu, Support.

Technical data

Univox® DLS-50 fulfils the demands of the international standard IEC 60118-4:2006.

For additional information, please refer to product data sheet/brochure and CE certificate which can be downloaded from www.Univox.eu, Downloads. If required other technical documents can be ordered from support@edin.se.

Environment

When this product is finished with, please follow existing disposal regulations. Thus if you respect these instructions you ensure human health and environmental protection.

Accessories

Part No	Description
900734	Switched power supply, 230/15V 18VA (EU)
900738	Switched power supply, 230/15V 18VA (UK)
900740	Switched power supply, 120/15V 18VA (US)
900744	Switched power supply, 230/15V 18VA (AUS)
283002	Loop pad, 400x400x5mm, 2 pin DIN, grey, cable=10m
283210	Extension cable for loop pad, 2 pin DIN, black, cable=10m
283220	Sofa loop cable incl. ext. lead, 2 turns, cable connector, 2 pin DIN, black, cable=8+10m
283240	Room loop cable roll, 0.33mm ² , incl cable clips, light grey, cable=30m
284016	AutoScart, Automatic scart switch, male to 3.5mm male
284005	SCART2, Scart connector, male to 3.5mm male, cable=2.3m
289002	Adaptor cable for car cigarette lighter for Univox DLS-50
281015	Audio cable, 3.5mm male to two RCA male, cable=1.5m
282007	Ramification cable, 2 pin DIN male to two 2 pin DIN female, cable=0.2m
242401	13A, Electret mic, velcro adhesive, 3.5mm male, cable=3m
581050	Tie-clip mic 3.5mm male, cable=1.5m
289015	Holder for wall mounting, black aluminium



Distributor

Univox DLS-50

Kits

Choice of	Loop pad	Sofa loop	Room loop
EU power supply	202052P	202052S	202052R
UK power supply	202054P	202054S	202054R
US power supply	202056P	202056S	202056R
AUS power supply	202058P	202058S	202058R

Univox by edin, the world's leading expert and producer of high quality hearing loop systems, created the very first true loop amplifier 1969. Ever since our mission is to serve the hearing community with the highest degree of service and performance with strong focus on Research and Development for new technical solutions.

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Hearing excellence since 1965

