

Distributor:



# UniVox® DLS-50

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

## User Guide

### UniVox® DLS-50 (Part No. 202052)

We thank you for having chosen a UniVox product and hope that 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 DLS-50 box contains loop amplifier and transformer aswell as the chosen loop solution (see pictures below). You can buy accessories making it possible to use your DLS-50 in even more ways. For example you can connect 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. You can find a list of accessories at the end of this user guide.

Start by unpacking the parts. On the next pages we'll explain how to connect your UniVox DLS-50.



Bo EDIN AB, founded in 1965, develops, produces and sells wireless loop systems and assistive listening devices under the brand name UniVox®. To ensure a high quality all products undergo careful tests and to fulfil our customers' needs the wide range also includes products from other companies. Approximately 50% of our sales are exported.

**Bo EDIN AB**  
Stockby Hantverksby 3  
SE-181 75 LIDINGÖ

**Visiting address**  
Förrådsvägen 2 B  
SE-181 41 LIDINGÖ

**Telephone**  
+46 8 7671818  
**Telefax**  
+46 8 7671820

**E-mail**  
info@edin.se  
**Website**  
www.edin.se

2008-12-16 Z:\Products Public\Loop Amplifiers - Systems\DLS-50\English\Service\DLS-50\_DuGbV5.indd Copyright © Bo EDIN AB



Loop amplifier



Transformer



Loop pad



Sofa loop cable



Room loop cable  
with clips

## Place the amplifier and connect the chosen loop solution

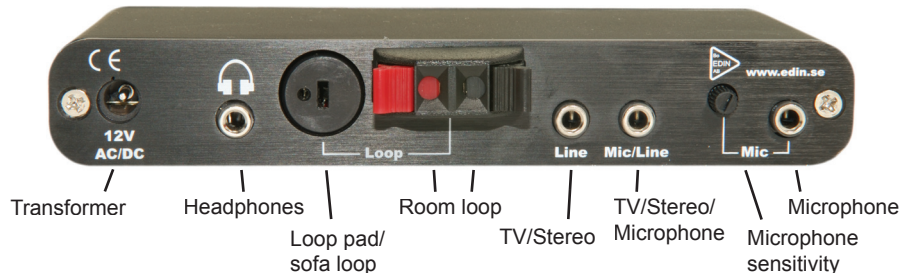
Place the loop amplifier in a suitable place near the TV/stereo. If there is a need, use the velcro pads included to fasten the amplifier to the side or back of the TV. The amplifier has a very efficient cooling and can therefore get hot in use. (the metal case leads off the heat from the electronics). 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. 1m above the floor) as this will influence the performance of the system. Connect the wire ends at the loop terminal in the rear panel.

See the outputs in the rear panel in the picture below.



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

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 inputs in the rear panel in the picture above.

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.)

## Troubleshooting

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-O 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 fill in and enclose a Service Form, see [www.edin.se](http://www.edin.se), Support.

## Technical information

UniVox® DLS-50 fulfills 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 "Product databank" at [www.edin.se](http://www.edin.se). If required, spare part lists or other technical documents can be ordered through [support@edin.se](mailto: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.

## Listen to music with headphones

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.

## Accessories and spare parts

**Transformer** (part no. 289003) 20VA, 230V/12V

**Loop Pad** (part no. 283002) 400x400x5mm, 10m cable, grey

**Extension cable** (part no. 283210) for loop pad, 10m, black

**Sofa loop** (part no. 283220) 8m, incl. 10m extension cable, black

**Room loop** (part no. 283240) 30m roll, incl. 50 clips, light grey

**AutoScart** (part no. 284016) automatic scart connector, 3.5mm male

**Scart2** (part no. 284005) scart cable, 3.5mm male, 2.3m cable

**Adaptor cable for car use** (part no. 289002) for 12V/cigarette lighter output

**Audio cable** (part no. 281015) 3.5mm male > 2xRCA male, 1.5m, black

**Ramification cable** (part no. 282007) 2 pin DIN male > 2x2 pin DIN female

**Microphone 13A** (part no. 242401) for speakers, 3.5mm male, 3m cable

**Microphone 13B** (part no. 241201) handheld, 3.5mm male, 7.5m cable

**Microphone 13C** (part no. 241101) tie-clip, 3.5mm male, 3m cable

**Wall holder** (part no. 289015) aluminium, excl. screws, black

## Maintenance

Under normal circumstances UniVox® loop amplifiers do not need any special maintenance. Should the unit become dirty, wipe the unit with a slightly damp cloth. Do not use solvent or heavy cleaning agents.

Purchase the right cable/s if you haven't done that in connection with the purchase of your DLS-50. A list of cables and other accessories/spare parts can be found on page 6.

Connect your TV and/or other sound sources to the 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 on page 4). 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 Accessories and spare parts on page 6).

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 Accessories and spare parts on page 6). To connect your stereo to the 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 Accessories and spare parts on page 6).

It's also possible to pick up TV or stereo sound by attaching a special microphone on the speaker grid (13A, see Accessories and spare parts on page 6). 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 center speaker.

**Transformer:** Connect the transformer to the output for mains power in the rear panel (12V AC/DC). Finally connect the transformer to a power outlet.

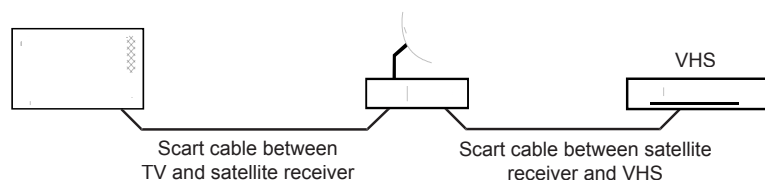
## Automatic Scart connection

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 Accessories and spare parts).

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 (thumbwheel) 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 thumbwheel 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 center 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 thumbwheel** and the **bass and treble controls** are also located at the front panel.

