



# Univox<sup>®</sup> CLS-1

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

User Guide



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# Introduction

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

Univox® CLS-1 is a compact yet powerful loop amplifier for wireless listening through your hearing aid.

Connect your TV, stereo, MP3, microphone or any other sound source that you want to hear clearly to one of 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® CLS-1 box contains a hearing loop driver and switched power supply as well as the chosen loop solution.

You can buy accessories making it possible to use your Univox® CLS-1 in more ways. For example you can connect Univox® CLS-1 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® hearing loop drivers have a very high output current capability resulting in powerful and secure products fulfilling existing standards, IEC 60118-4, when correctly installed.



Loop pad

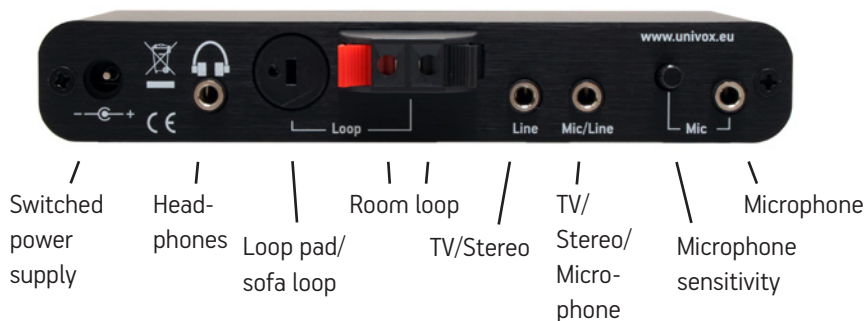


Sofa loop cable



Room loop cable with  
50 clips

# Installation



## Place the hearing loop driver and connect the chosen loop solution

Place the loop driver in a suitable place near the TV/stereo. If needed, use the velcro pads included to fasten the loop driver to the side or back of the TV. The loop driver has very efficient cooling and can therefore get warm in use, as the metal case leads off the heat from the electronics. For this reason, keep the loop driver away from sensitive materials.

### Loop pad

Put the loop pad under/on the cushion on the sofa/chair where you want to sit when watching TV. Connect it to the DIN output on 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 on 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 as this will influence the performance of the system. Connect the wire ends to the loop terminal on the rear panel. See the outputs on the rear panel on the previous page.

## Connect Univox® CLS-1 to your TV and/or other sound source

Univox® CLS-1 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 on the rear panel on the previous picture.

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

Obtain the necessary cable/s for you Univox® CLS-1, if you have not already done so. You'll find a list of cables and other related parts in section Accessories.

Connect your TV and/or other sound sources to the Univox® CLS-1 with the appropriate 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 a 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 want to connect the audio output of your TV (RCA) to the driver, use an audio cable with double RCA connectors at one end and a 3.5mm/ 1/8 inch connector at the other end (Audio cable, see section Accessories). To connect your stereo to the Univox® CLS-1 you need the same cable.

## Microphone

If a microphone will 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 (13T, 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 on the rear panel (12V AC/DC). Finally connect the power supply to a power outlet.

## Adjusting sound level, tone and microphone sensitivity

When all connections are done the indicator for mains power to the right on 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 of the loop is adjusted with the volume control (thumb wheel) on 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 on the front panel. Adjust the controls until desired sound balance is achieved.

## **Microphone sensitivity**

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

### **Attention!**

If no microphone is connected to the mic input the sensitivity control should be turned to minimum (counter clockwise) to avoid poor sound intelligibility.

# Listen to music with headphones

Univox® CLS-1 with its built-in automatic gain control (AGC) is developed for superior speech intelligibility when used as a loop driver. 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 output on 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.

# Indication lights and controls

There are three blue LED's on the front panel to indicate that all functions of the hearing loop driver work in a proper way.



## Mains power

The mains power indicator is placed on the right side on the front panel. If this LED is lit the driver is correctly connected to the mains outlet and the driver 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.

## 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 on the front panel.



# Safety and warranty

The equipment should be installed by a competent audio visual technician observing 'good electrical and audio practice' at all times and following all the instructions contained within this document.

Only use the power adapter supplied with the unit. If the power adapter or cable is damaged, replace with a genuine Univox part.

Power adapter must be connected to a mains outlet close to the amplifier and easily accessible.

The installer is responsible for installing the product in a way that may not cause risk of fire. Do not cover the power adapter or loop driver. Only operate the unit in a well ventilated, dry environment.



Do not remove any covers as there is a risk of electric shock. Please observe that the product warranty doesn't include faults caused by tampering with the product, carelessness, incorrect connection/mounting or maintenance.

## Maintenance

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

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

## Trouble shooting

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

Is the mains power indicator lit? If not, check that the power supply is correctly connected to the power outlet and to the driver.

Is the loop current indicator lit? This indicates that the system works. If not, check that the loop pad, sofa or room loop is not broken and or incorrectly connected. Check also all other connections.

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

The loop current indicator is lit but there is no sound in the hearing aid: 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 is sent to Bo Edin AB, please enclose a filled Service Form, [www.Univox.eu](http://www.Univox.eu), Support.

## Environment

Please follow existing disposal regulations in your country. If you respect these instructions you ensure human health and environmental protection.

## Technical data

Correctly installed Univox® CLS-1 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](http://www.Univox.eu). If other technical documents are required they can be ordered from [support@edin.se](mailto:support@edin.se).

# Accessories

<b>Part No</b>	<b>Description</b>
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, 0,75mm <sup>2</sup> , incl cable clips, light grey, cable=30m
289002	Adaptor cable for car cigarette lighter for Univox CLS-1
281015	Audio cable, 3.5mm male to two RCA male, cable=1.5m
281041	HDA-2M D/A Converter incl. optical cable
282007	Ramification cable, 2 pin DIN male to two 2 pin DIN female, cable=0.2m
241501	13T, Electret microphone, condenser capsule, boundary
289015	Holder for wall mounting, black aluminium

## Kits

<b>CLS-1 w.</b>	<b>Loop pad</b>	<b>Sofa loop</b>	<b>Room loop</b>
Part no	202050P	202050S	202050R



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Distributor

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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

