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LV2 *e*

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WIRELESS LOUDSPEAKER LV2 E

FCC ID: XCO-HSMLV2E
FCC IC: 7756A-HSMLV2E

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Pour satisfaire aux exigences de la FCC d'exposition aux radiofréquences, une distance de séparation de 20 cm ou plus doit être maintenue entre cet appareil et des personnes lors de fonctionnement du dispositif. Pour assurer la conformité des opérations au plus près que cette distance n'est pas recommandée. L'antenne utilisée pour ce transmetteur ne doit pas être co-localisés en conjonction avec toute autre antenne ou transmetteur.

Cet appareil est conforme à la Partie 15 des règlements de la FCC. L'opération est soumise aux deux conditions suivantes: (1) cet appareil ne peut causer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences qui peuvent provoquer un fonctionnement indésirable.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

ENGLISH

FEATURES

- Built-in wireless receiver in each speaker
- Wireless full CD quality sound
- Range room to room: up to 20 m
- Same room: up to 50 m
- In line of sight: up to 100 m
- No interference or delays
- Works with both Mac and PC
- RF band: 2.4 GHz
- Sample rate: 48 KHz
- Dedicated proprietary protocol
- USB 2.0 interface

PACKING CONTENTS

DEDICATED LEFT AND RIGHT SPEAKER
Only right speaker is equipped with remote receiver.
To use remote, always aim at right speaker.

Left speaker   Right speaker

Remote receiver on Right speaker only

LED, blue for established wireless connection. Red for no wireless connection or no transmission. Display shows volume, House Code and Zone.

1 X TX100 WIRELESS TRANSMITTER

LED, blue for established wireless connection. Red for no wireless connection or no transmission.

House Code switch   3.5 mm stereo jack*

*With a 3.5mm stereo jack you can transmit wireless audio from devices with an audio output (line out/headset out), e.g. iPad/iPhone/iPod dock, Airport Express, stereo, radio, etc. TX100 then requires a USB power adapter, sold separately.

SPECIFICATIONS

Type:
Powered wireless loudspeaker system with DSP,2 way bass reflex cabinet

Amplifier:
2 x 25 W digital Class D,
left and right speaker

Tweeter: 1" soft dome

Woofer: 4.5" aluminum cone

Frequency range:
45 – 22.000 Hz
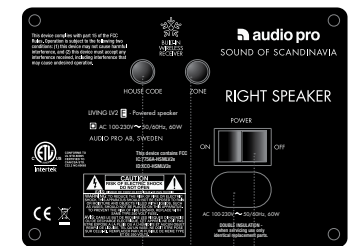
Crossover frequency:
4000 Hz (24 dB/octave L/R)

Dimensions HxWxD:
210x145x180 mm

REAR PANEL
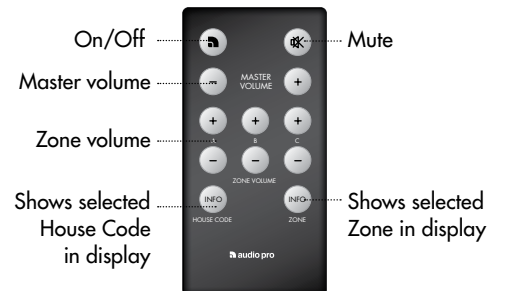
RIGHT SPEAKER

House Code button   Power switch
Zone button   To power outlet
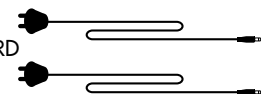
REMOTE

On/Off   Mute
Master volume
Zone volume
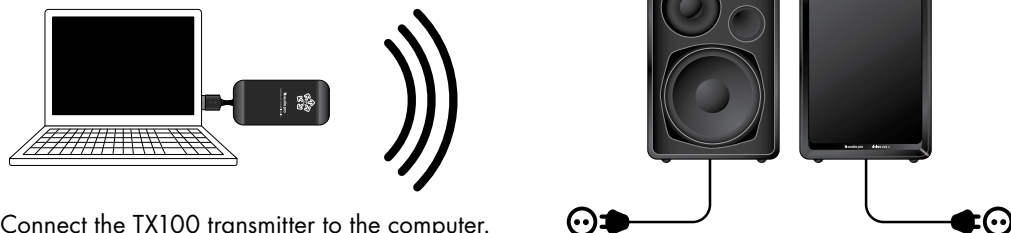Shows selected House Code in display   Shows selected Zone in display

2 X POWER CORD

BASIC CONFIGURATION

Before connecting to computer, see Mac or PC setup.

1. Connect the TX100 transmitter to the computer.
2. Connect both LV2e speakers to 230V outlet.
3. Set the House Code on the transmitter and speakers.
   Done! Play your music on your computer.

WIRELESS STATUS:
LED lights up blue on speakers and transmitters when wireless connection is established.
LED lights up red on speakers and transmitters when no wireless connection is established.

Note:
If speakers are in standby mode, LED is red even though wireless connection is established.
Turns blue when speakers receives signal.

MAC SETUP
1. Insert TX100 transmitter to a free USB socket.
2. Go to System Preferences, choose Sound under Hardware.
3. Click Output in menu, choose "USB Headset".
   Done! You can now send audio from your computer.

PC SETUP
Please do following setup before using music playing software.
1. Insert TX100 transmitter to a free USB socket.
   Wait until software has been installed.
   (See lower right hand corner, message window will open when sound device is ready to use.)
   Done! You can now send audio from your computer.

For some PC computers you may need to perform these settings:
2. Click Start button, go to Control Panel and choose Sound & Sound devices.
3. Under playback of audio, default unit, choose "USB Headset".
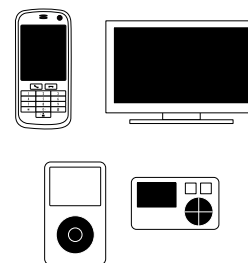   Done! You can now send audio from your computer.

TIPS AND INSPIRATION
On our homepage, www.audiopro.se, we share our experiences and also tips regarding wireless audio. *A few examples:*
- Play your audio wirelessly directly from iPad/iPhone/iPod touch
- Play your audio wirelessly directly from an Android OS device
- We give you tips about a number of easy hook-ups and multiroom solutions

Visit us at Facebook to find out more about Audio Pro and our products.
www.facebook.com/audiopro

CONNECT TO ANY ANOTHER AUDIO SOURCE

The TX100 transmitter can be connected to any audio source with an audio output (e.g. a headset outl). Connect a cable to the audio source and the audio input on TX100. TX100 is then powered with a separate USB power supply (available as an extra accessory).

Example: connect to iPad/iPhone dock, Airport Express, TV, radio, stereo/receiver, mobile phone, network player, NAS, media player.

ADD MORE LV2E SPEAKERS TO THE AUDIO NETWORK

You can add limitless number of LV2e speakers to your system within wireless range of transmitter.
All LV2e spekaers receives wireless signal from transmitter using same House Code.
You can add more speakers to one room, or add speakers in several rooms.

CHANGING HOUSE CODE AND VOLUME ZONE

The rear panel has buttons for changing the House Code and Zone.
Push to change the House Code: 1 - 2 - 3, and back to 1.
Push to change the Zone: A - B - C, and back to A.

Note: House Code and Zone buttons on the remote control only show the selected House Code/Zone. Any changes must be made on the speaker.

USE LV2E WITH LV-SUB SUBWOOFER

LV2e can be used in two modes, satellite or fullrange. The satellite mode is adapted for use together with Living LV-SUB. Push and hold both the House Code and Zone buttons for 3 seconds, SAT will be shown in the display. To switch to fullrange, repeat the same procedure. Repeat the procedure on both speakers.

Note: In satellite mode, frequencies under 80Hz are disregarded for LV2e frequency playback. When LV2e is used in satellite mode together with LV-SUB, you can play back at a considerably higher volume.
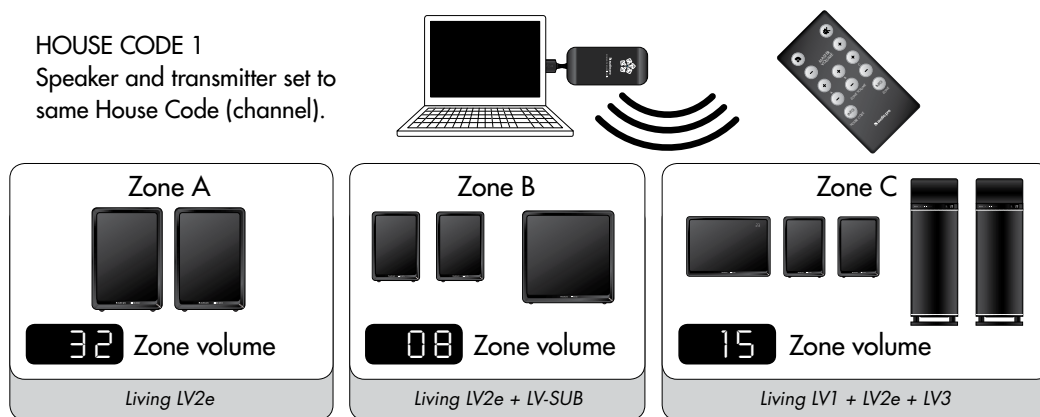
USE MULTIPLE TRANSMITTERS AND SPEAKERS SIMULTANEOUSLY WITH THE HOUSE CODE 1, 2 AND 3

Transmitter: House Code 1
Speaker: House Code 1

Transmitter: House Code 2
Speaker: House Code 2

Transmitter: House Code 3
Speaker: House Code 3

By using the House Codes (channels) you can share the wireless network for up to three separate networks. Then you can simultaneously play music from various audio sources (from three different transmitters) to different pairs of LV2e speakers in the same house or apartment.

ADJUST THE VOLUME SEPARATELY IN THREE DIFFERENT ZONES

In order to be able to have the same music at different volumes in different rooms/areas, you can divide each House Code into 3 different volume zones. Each zone can have a different volume. This is very handy if, for example, you want to have one volume level in the living room and a lower volume in the kitchen. You can have as many LV2e speakers in each zone as you want, or just a pair. The zone volume is easily controlled with the remote unit.

HOUSE CODE 1
Speaker and transmitter set to same House Code (channel).

Zone A	Zone B	Zone C
32 Zone volume	08 Zone volume	15 Zone volume
Living LV2e	*Living LV2e + LV-SUB*	*Living LV1 + LV2e + LV3*

Note:
1. All LV2e speakers are default Zone A, and volume level 17.
2. Each House Code (1, 2 and 3) can be split into up to 3 zones (A, B and C).
3. You can have as many speakers you like on each House Code, and as many as you want in each zone.
   A zone does not have to be one room, can be whole floor in house.

TROUBLESHOOTING

THE SPEAKERS PLAY BACK AT DIFFERENT VOLUMES
Use the zone-volume buttons for the zone that is set on the speakers, adjust the volume up or down with the remote, and all speakers will be synchronised to the same volume level in the entire zone.

ONE SPEAKER IS ON, OTHERS OFF
If one of the speakers is disconnected from the power supply whereas others are connected to the power supply, the On/Off function may get out of sync. Proceed as follows in such cases: switch off the main power switch on the left speaker. Depending on the status, switch on or off the right speaker (main speaker with receiver for remote control). Then switch on the power switch on the left speaker again and start up the system with the remote control on the right speaker (while doing this, you should play music so that the speakers are receiving an audio signal).

NETWORK TROUBLESHOOTING

Is the LED light on the transmitter blue?
If the light is red, try moving the transmitter and receiver closer together. Does this turn the LED blue?

Are you using more than one TX100 transmitter?
Make sure that the TX100's aren't running on the same House Code. If more than one TX100 uses the same House Code, interference may occur. Disconnect one TX100, or change the House Code.

Are you using the same House Code on transmitter and receiver?
Make sure the same House Code is set on both the transmitter and the receiver.

How far apart are the transmitter and receiver?
If distance between the transmitter and receiver is too far, the, connection might be lost.
Try placing the transmitter and receiver in closer proximity, does this help?

Are there walls between the transmitter and receiver?
If your home has thick concrete walls, or walls of plaster with wire lath, the wireless range will decrease. Try placing transmitter and receiver in the same room, does this help?

Are there more wireless networks in the area?
If there are many wifi networks running in the area, wireless range can decrease. There are useful apps for iPhone/iPad/iPod touch and Android to detect local wifi networks, and see which channel might be crowded. You can also try to change the channel on your wireless router to improve Audio Pro network range and your own home network wifi performance. (Audio Pro network transmits on channel 1, 6 or 11.)

Is your computer connected to the internet via cable or wifi?
The Audio Pro network can weaken a local wifi network (but not weaken itself). If possible, you should change channel on your wireless router, the Audio Pro network transmitts on channel 1, 6, or 11. Choose a new channel on your router, for example 3, 8 or 13. (in total there are 13 channels on the 2.4 GHz band.) There are useful apps for iPhone/iPad/iPod touch and Android to detect local wifi networks, and see which channel might be crowded. If you cannot change the channel on your wireless router, try connecting computer via Ethernet cable instead. Does this help?

Are there Bluetooth units active in the area?
Shut down all active Bluetooth devices. Does this help?

Windows 7 and Mac OS, sound output
When connecting the TX100 transmitter to a computer using Windows 7 or Mac OS, you need to select the sound output. Go to: system settings, find sound settings, and select USB HEADSET as your sound output. *(In older Windows OS there is no need for this, TX100 will take over automatically as the sound output device.)*