LIVING LV22

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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

10. Only use attachments/accessories specified by the manufacturer.

11. Unplug this apparatus during lightning storms or when unused for long periods of time.

12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

13. Damage Requiring Service
Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under thee following conditions:
A. When the power-supply cord or plug is damaged,
B. If liquid has been spilled, or objects have fallen into the apparatus,
C. If the apparatus has been exposed to rain or water,
D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
E. If the apparatus has been dropped or damaged in any way, and
F. When the apparatus exhibits a distinct change in performance this indicates a need for service.

14. Object and Liquid Entry
Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit.

15. Batteries
Always consider the environmental issues and follow local regulations when disposing of batteries.

16. The power supply and power cord for this apparatus is intended for indoor use only.

ENGLISH

SPECIFICATIONS

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

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

Tweeter: 1" soft dome

Woofer: 4.5" paper cone

Frequency range:
45 – 22.000 Hz

Crossover frequency:
2700 Hz (24 dB/octave L/R)

Dimensions HxWxD mm:
213x148x205

Power consumption:
On: 3.4W to 60W max (each speaker)
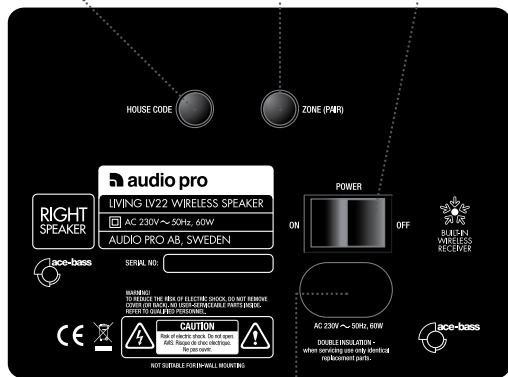Standby: 0.3W (each speaker)

FEATURES

- Built-in wireless receiver in each speaker
- Wireless full CD quality sound
- Wireless range room to room: Up to 20 m
- Wireless range in same room: Up to 50 m
- Wireless rangein open area: Up to 100 m
- No interference or delays
- Works with both Mac and PC
- RF band: 2.4GHz
- Sample rate: 48 kHz
- Dedicated proprietary protocol

OVERVIEW

REAR PANEL

House Code button   Zone/Pair button   Main power

HOUSE CODE   ZONE (PAIR)

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RIGHT SPEAKER
LIVING LV22 WIRELESS SPEAKER
AC 230V ∼ 50Hz, 60W
AUDIO PRO AB, SWEDEN
ace-bass
SERIAL NO:

POWER
ON   OFF

BUILT-IN WIRELESS RECEIVER

WARNING!
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE
COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE.
REFER TO QUALIFIED PERSONNEL.

CAUTION
Risk of electric shock. Do not open.
AVIS: Risque de choc électrique.
Ne pas ouvrir.

DOUBLE INSULATION
when servicing use only identical
replacement parts.

AC 230V ∼ 50Hz, 60W   ace-bass

NOT SUITABLE FOR IN-WALL MOUNTING

To 230V AC outlet

REMOTE

On/Off ....   ⌂   ⚟ .... Mute

Master volume ......   −   MASTER VOLUME   +

+   +   +
A   B   C

Shows selected House Code in display. 1, 2, 3 ......   −   −   −
ZONE VOLUME .... Zone volume

HOUSE CODE   SOURCE   INFO   .... Shows selected zone in display. A, B, C
ZONE

Source.
(Only used
in combination
with LV-HUB.)

NOTE:
 To use remote, aim at IR-eye on RIGHT speaker.
(Only RIGHT speaker can receive remote commands.)

IR receiver for remote
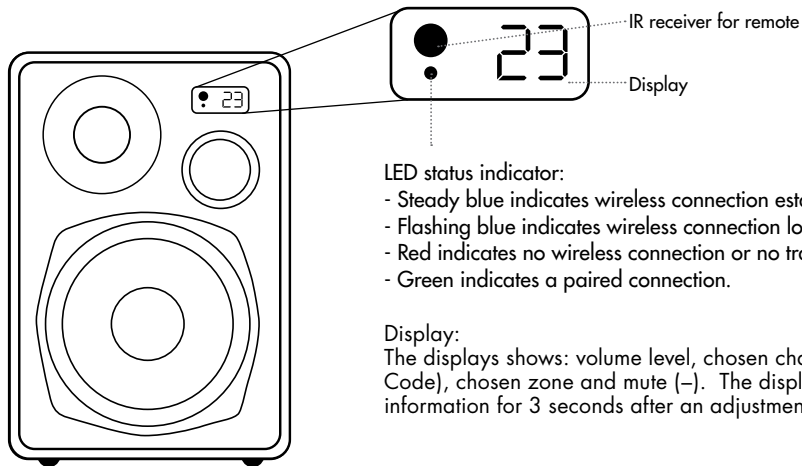
Display

LED status indicator:
- Steady blue indicates wireless connection established.
- Flashing blue indicates wireless connection lost.
- Red indicates no wireless connection or no transmission.
- Green indicates a paired connection.

Display:
The displays shows: volume level, chosen channel (House Code), chosen zone and mute (–). The display shows the information for 3 seconds after an adjustment.

The House Code selection and Zone selection buttons are located on the rear of the LV22 speakers.

1. House Code, press once to display the chosen channel (1, 2, 3). Further presses change the channel 1>2>3 and back to 1.
3. Zone, press once to display the chosen volume zone (A, B, C). Further presses change the zone A>B>C and back to A.

TXD200 TRANSMITTER

1. House Code selector.
Choose channel for the transmitter.

2. LED.
Blue indicates connection.
Red indicates no connection.
Green indicates paired connection.

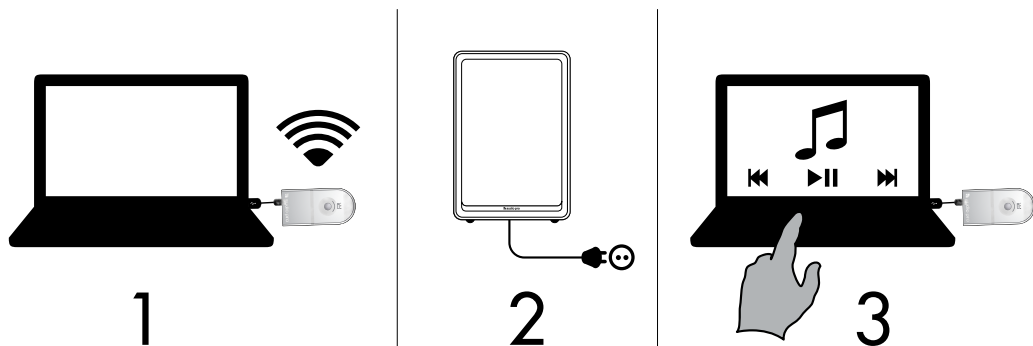3. Pairing button. Press this on the transmitter and on the speaker(s) to pair.

4. USB in. For connecting to a computer.
Or to connect a power supply when using an audio source connected to line in.

5. Line in. Combined optical and analogue. For connecting the transmitter to an audio device other than a computer.
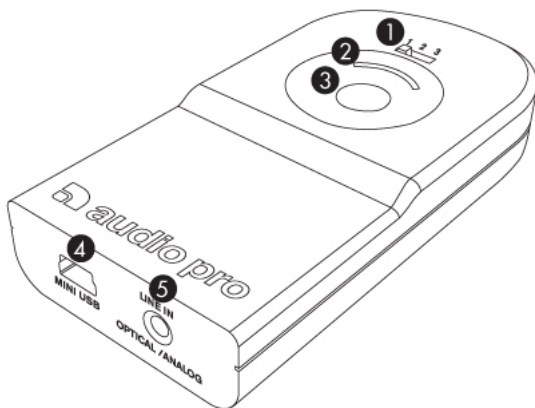
BASIC CONFIGURATION

Before connecting to a computer, see Mac or PC setup.

1. Connect the TXD200 transmitter to the computer.
2. Connect both LV22 speakers to 230V outlet.
3. Done! Play your music on your computer.

WIRELESS STATUS:
LED is blue on the speakers and transmitters if a wireless connection has been established.
LED is red on the speakers and transmitters if no wireless connection has been established.
LED is green on the speakers and transmitters if a paired wireless connection has been established.

Note:
- Make sure that the speaker(s) and the transmitter use the same House Code (channel 1, 2 or 3).
- If the speakers are in automatic standby mode, the LED will be red even if a wireless connection has been established. This turns blue when the speakers receive an audio signal.

MAC SETUP
1. Connect the TXD200 transmitter to a free USB port.
2. Go to System Preferences and choose Sound under Hardware.
3. Click Output in the menu and choose "Audio Pro TXD200".
Done! You can now send audio signals from your computer.

PC SETUP
Please carry out the following setup before using music playing software (for example iTunes or Spotify).

1. Connect the TXD200 transmitter to a free USB port. Wait until the software has been installed.
(A message window will be displayed in the lower right hand corner when the sound device is ready to use.)
   Done! You can now send audio signals from your computer.

For some PC computers (e.g. with the Windows 7 operating system) you may also need to perform the following steps:
2. Click Start button, go to Control Panel and choose Sound & Sound devices.
3. Under playback of audio, choose "TXD200" as the default unit.
   Done! You can now send audio signals from your computer.

PAIRED AND UNPAIRED MODE

Pairing protects your Audio Pro network from interference from other nearby Audio Pro Wireless networks.

PAIRING YOUR LV22 SPEAKERS WITH THE TXD200 TRANSMITTER
1. Press and hold down the Pairing button on the transmitter for 2 seconds. The LED starts to flash green.
2. Press and hold down the ZONE/PAIR button on the LV22 speaker for 3 seconds. (the button is located on the back of the speaker.) The LED starts to flash green.
3. When the LEDs on the transmitter and the speaker(s) become a steady green, the system is paired.

NOTE:
The Master Volume is disabled in paired mode. Use the A-B-C zone volume controls instead
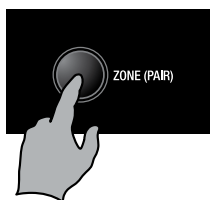
UNPAIRED MODE
The TXD200/LV-HUB transmitters work in unpaired mode with all Living speakers. The LV22 works with the TX100 transmitter in unpaired mode.

UNPAIRING SPEAKERS:
To unpair a system (all the speakers in the same volume zone will be unpaired):
1. Disconnect the TXD200 from the power source.
2. While pressing the pairing button, reconnect the TXD200 to the power source and hold down the pairing button for about 3 seconds. Release the button when the LED turns red/blue
3. Turn the LV22 speaker,off using the main switch on the rear panel. While turning the speaker on again, hold the House Code button pressed down.

USE LV22 WITH LV-SUB FLAT SUBWOOFER

The LV22 can be used in two modes, SATELLITE or FULLRANGE. The satellite mode is adapted for use together with the Living LV-SUB FLAT SUBWOOFER.
Push and hold down both the House Code and the Zone buttons for 3 seconds; SAT will appear on the display. Repeat the same procedure to switch to fullrange. Repeat the procedure on both speakers.

Note: In satellite mode, frequencies under 80Hz are disregarded for LV22 playback. When LV22 is used in satellite mode together with LV-SUB, you can play at a considerably higher volume.

OPERATING WITH THE LV-HUB

The Living LV-HUB (sold separately) provides convenient features such as listening to different sources in different rooms. The sources connected to the LV-HUB can also be changed via the speakers, using the remote control.

House Code 1 Zone A	House Code 1 Zone B	House Code 1 Zone C
Room 1: LV33 by TV	Room 2: LV22	Room 3: LV22
Audio from TV	Audio from computer	Audio from Apple TV (AirPlay®)

Connected sources:
TV
Apple TV®
Turntable
Computer

Transmitting on House Code 1
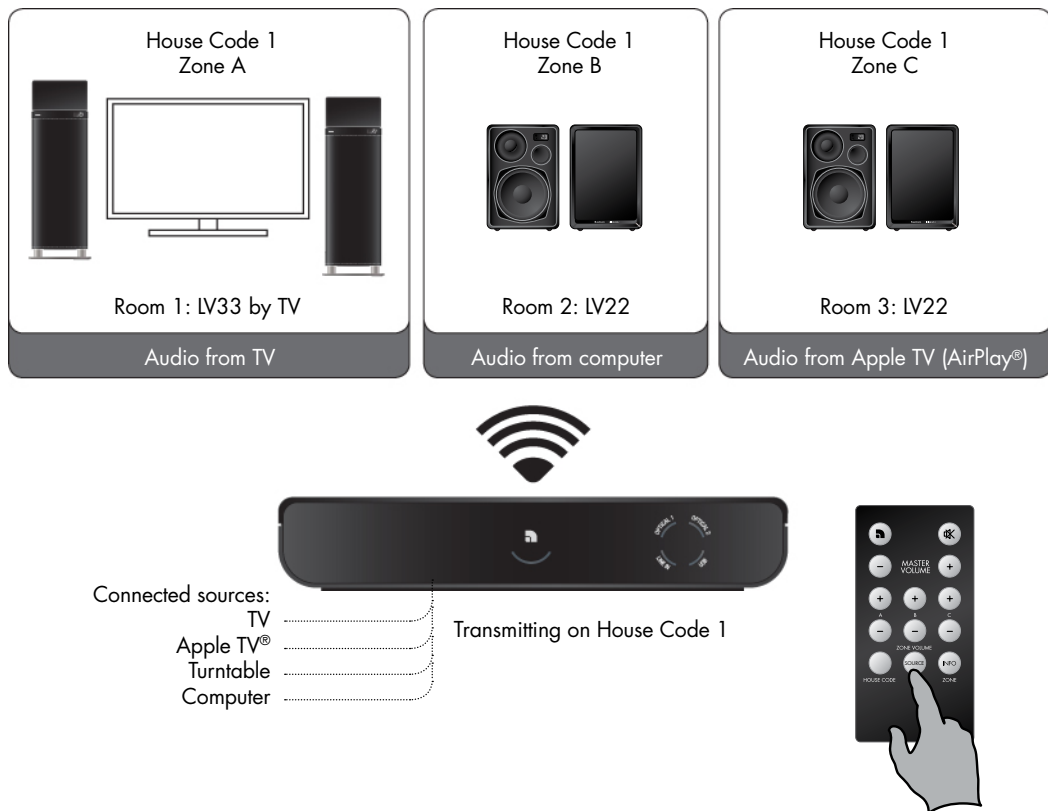
1. Set all the speakers and the LV-HUB to the same House Code.
2. Set the speakers in each room to zone A, B or C.
3. Pair the LV-HUB with all the speakers (See Pairing in the relevant speaker manual.)
4. Connect up to 4 sources to the LV-HUB

You can now play to any of the speakers (even in different zones) from any source that is connected to the LV-HUB.
Changing the source: use the remote control and aim it at the speaker in order to change the source. You can change the source in each room via the speakers, using the remote control, and listen to different sources in different rooms at the same time. Example:

- Watch a film with wireless sound in Room 1.
- Listen to music on a computer in Room 2.
- Listen to music via AirPlay® (via Apple TV®) in Room 3.

The speaker display will show the following for the sources: USB–LI–OP1–OP2

PAIRED & UNPAIRED MODE WITH THE LIVING LV-HUB

Unpaired mode:
- Works with all Living speakers.
- Change source on the LV-HUB using the remote control.
- The LV-HUB is set to the same House Code as the speakers.

Paired mode:
- Works with LV22 and LV33 speakers.
- Change source on speakers (LV-HUB can thus be concealed).
- Network is protected from possible other Audio Pro networks nearby.

Note:
1. In paired mode: The source selection applies to the ZONE, i.e. all speakers set to the same zone will play from same source.
2. If you add a TXD200 transmitter, and this is paired, you can also change the House Code on the speakers in order to choose different transmitters from which to listen (for example, HC1 on LV-HUB and HC2 on TXD200.)

RESETTING THE SPEAKERS

Return to factory settings (volume 17, bass EQ 0):
Turn off the speakers using the remote control. Turn on the speakers again and press MUTE on the remote control while the LED flashes. Press MUTE again. Now all the paired speakers (or all the speakers in same zone) will have returned to the default settings.

ADJUST VOLUME SEPARATELY IN 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 useful if, for example, you want to have one volume level in the living room and a somewhat lower volume in the kitchen. You can have as many LIVING speakers in each zone as you want, or just one pair. The zone volume can easily be controlled from the remote control unit.

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

| Zone A	Zone B	Zone C
29 Zone volume	**08** Zone volume	**15** Zone volume
Living LV22	*Living LV22 + LV-SUB FLAT*	*LV22 + LV33*

Note:

1. All the LV22 speakers are assigned to Zone A and have a volume level of 17 by default.

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 as you like on each House Code, and as many as you want in each zone. A zone does not have to be just one room, but can, for example, be a whole floor in a house.

USING MULTIPLE TRANSMITTERS AND SPEAKERS SIMULTANEOUSLY WITH HOUSE CODE 1, 2 OR 3

Transmitter: House Code 1
Speakers: House Code 1
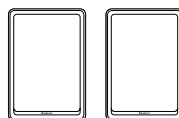
Transmitter: House Code 3
Speakers: House Code 3
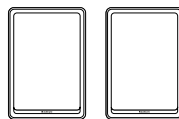
The House Codes (channels) can be used to share the wireless network between up to two separate networks. This makes it possible to simultaneously play music from various audio sources from two different transmitters on different pairs of LIVING speakers.

PLAYING WIRELESSLY FROM OTHER AUDIO SOURCES

The TXD200 transmitter has a combined analogue/optical sound input. Any optical or analogue device with audio output can be connected to the transmitter. Examples include computers, mp3-players, iPod/iPhone/iPad docking stations, mobile telephones, stereo/receivers, CD players and radios etc. The TXD200 contains an advanced Burr-Brown A/D converter for optimal sound reproduction. The TXD200 transmitter must be powered by an Audio Pro USB power adaptor if connected by cable (sold separately).

To 230V
AC outlet

Optical or
analogue cable
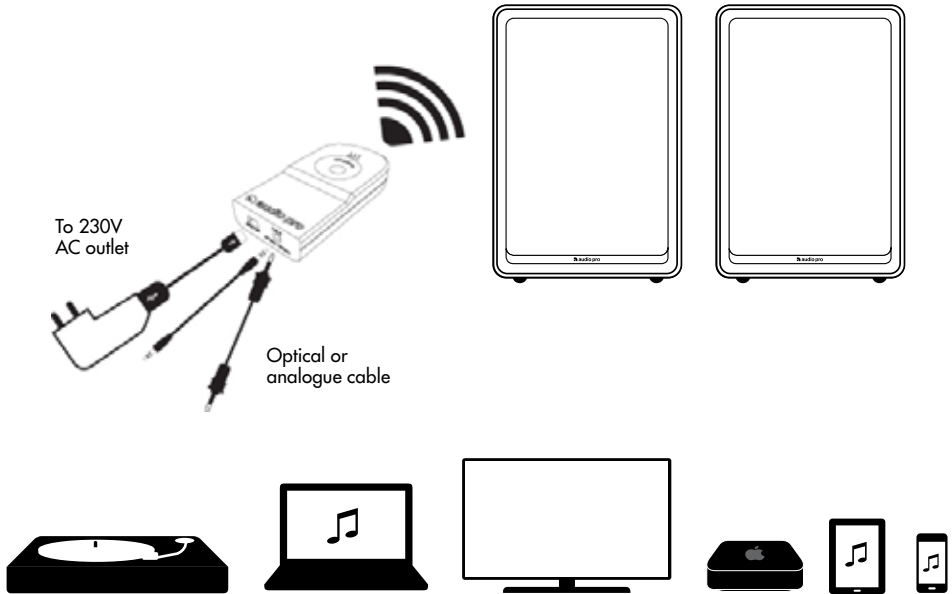
PLAYING WIRELESSLY FROM A SMARTPHONE/TABLET

In order to play from handheld devices, connect an AirPort® Express unit or Bluetooth® receiver unit to your Audio Pro transmitter. Set up the AirPlay® or Bluetooth® device according to the relevant user manual.

AirPlay

Bluetooth®

Connect the device to the TXD200 or the LV-HUB using a cable
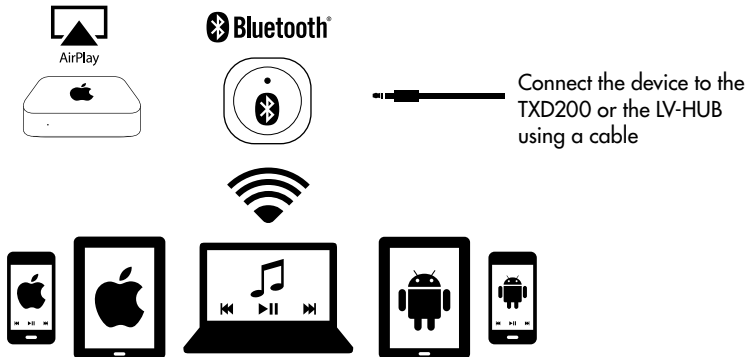
TROUBLESHOOTING

THE SPEAKERS PLAY 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, THE OTHER 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/TXD200 transmitter?
Make sure that the *TX100/TXD200's* aren't running on the same House Code. If more than one *TX100/TXD200* uses the same House Code, interference may occur. Disconnect one transmitter, 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.)*

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