



English Manual



Reveal 402/502/802

English manual

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 a 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. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.

Explanation of graphic symbols



The lightning bolt triangle is used to alert the user to the presence of uninsulated "dangerous voltages" within the unit's chassis that may be of sufficient magni-



tude to constitute a risk of electric shock to humans.

The exclamation point triangle is used to alert the user to presence of important operating and service instructions in the literature accompanying the product.

Warning

- **Voltages in this equipment are hazardous to life. Do not open the unit – risk of electric shock inside.** There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Make sure that the “Voltage Select” switch on the rear panel is set correctly for your area before connecting the mains plug.
- Use only with the detachable power cord supplied with the apparatus, or by your local distributor or dealer.
- The MAINS plug is used as the disconnect device and shall remain readily operable.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
- Do not install this device in a confined space.

Fuse protection

A mains fuse is provided in the IEC power inlet on the back of this apparatus, which can only be removed with the power cord unplugged. This must be replaced by a fuse of the same type and rating (see specifications or refer to rear panel).

Warning: Strong magnetic field

Due to the powerful drive unit magnet, do not place within 1 meter (3 foot) of a cathode ray tube (CRT) television or monitor. There is no issue with plasma, LCD and LCD devices.

EMC/EMI

Electromagnetic compatibility/
Electromagnetic interference

This device has undergone safety and EMC testing, and complies with the European Low Voltage Directive 2006/95/EC and Electromagnetic Compatibility Directive 2004/108/EC.

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 residential installations. This equipment generates, uses and can radiate radio frequency en-

ergy 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.

Changes or modifications not expressly approved by Tannoy Ltd. for compliance could void the user's authority to operate the equipment.

Warranty

No maintenance of the loudspeaker is necessary.

Please register your Tannoy product online at www.tannoy.com.

All of our products have been produced and tested with care and precision to give first-class service.

All passive components are guaranteed for a period of 5 years from the date of purchase from an authorized Tannoy dealer subject to the absence of accident, misuse, neglect, unauthorized modification or fair wear and tear.

All active and electronic components are guaranteed for a period of 2 years from the date of purchase from an authorized Tannoy dealer. If at any time during this warranty period the equipment proves to be defective for any reason other than accident, misuse, neglect, unauthorized modification or fair wear and tear, we will repair any such manufacturing defect or, at our option, replace it without charge for labour, parts or return carriage.

If you suspect a problem with a Tannoy product, in the first instance, discuss it with your Tannoy dealer.

If you require further assistance then we ask that you deal directly with your local Tannoy distributor. If you cannot locate your distributor please contact Tannoy Customer Services, at the address given below.

**Tannoy Ltd. UK
Customer Services**
Rosehall Industrial Estate
Coatbridge
North Lanarkshire
ML5 4TF
Scotland
United Kingdom

Telephone: +44 1236 420199
Fax: +44 1236 428230
E-mail: enquiries@tannoy.com

Do not ship any product to Tannoy without previous authorization.

Our policy commits us to incorporating improvements to our products through continuous research and development. Please confirm current specifications for critical applications with your supplier.

Introduction

Once you have set up your new loudspeakers as described in this manual, please complete and return the registration document or register your product online at www.tannoy.com – this does not limit your legal rights.

Unpacking

Check carefully for any sign of transit damage. In the unlikely event of transit damage, notify your shipping company and/or dealer as soon as possible for advice. It is recommended you store all packaging to allow protected transport in future.

Ensure that the following accessories are present:

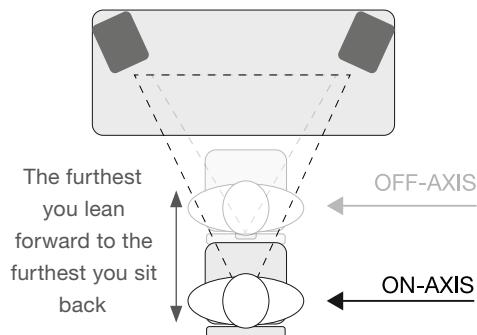
- mains cord appropriate to your country of use
- one 5 meter 3.5 mm mini-jack cable.

Caution

These loudspeakers are capable of generating high sound levels over a sustained period of time. Because of their low levels of distortion, it is not always obvious that the sound level is high when working with these loudspeakers. Please be aware that exposure to excessive levels over a sustained period of time can lead to permanent hearing damage.

Positioning your speakers

These loudspeakers are designed as near field monitors, positioned typically 0.75 to 3 meters from the listener. They will typically be placed on the mixer metering bridge or on a table either side of a smaller mixing desk or control surface. They may also be mounted on appropriate loudspeaker stands, which will yield the best results in terms of stability and vibration. In all cases, these speakers should be angled towards the listener, with the tweeter approximately at ear height. For best uniform dispersion, these speakers should be mounted vertically, and not on their sides.



Positioning your speakers for optimal results

Connecting your speakers

Always make and check all connections before plugging your loudspeakers into the mains. Make sure that the Voltage Select switch on each speaker's rear panel is set to the correct voltage range.

Balanced and unbalanced signal inputs

You can feed a line level input signal to your speaker by using either

- the unbalanced 6.35 mm (1/4") input jack or
- the balanced XLR input jack.

XLR pinouts are: 2 = +ve (hot), 3 = -ve (cold) and 1 = screen or signal ground. The XLR input may also be used for unbalanced operation by connecting pins 3 and 1 together.

Aux input – Monitor Link

As an alternative to feeding a mono signal into each Tannoy Reveal loudspeaker, you can feed a stereo signal (e.g. from an audio interface, a smart phone or an audio player) to one loudspeaker and link it to a second loudspeaker using the supplied 3.5 mm cable, thereby creating a stereo pair. To do so, proceed as follows:

- Connect your line level signal source to the "IN" jack in the AUX section of the first loudspeaker's

- rear panel, using the 3.5 mm mini-jack cable that came with the first speaker.
- Connect the “MONITOR LINK” jack of the first loudspeaker to the “MONITOR LINK” jack of the second loudspeaker using the 3.5 mm mini-jack cable that came with the second speaker.
 - Set the “SPEAKER POSITION” switch of each monitor according to its physical position.
 - Set the position switch of the left loudspeaker (when facing the fronts) to “-►”.
 - Set the position switch of the right loudspeaker to “◄-”.

Volume control

The rear mounted “VOLUME” control knob allows for matching each loudspeaker’s volume to your mixing desk or other equipment. It will also allow you to adjust the relative levels between speakers in a surround system.

EQ

The EQ control switch adjusts the tweeter volume. It should normally be set to “NEUTRAL”.

If you are working in a bright environment, set the EQ control switch to “HI CUT”. In a dull environment, set the EQ control switch to “HI BOOST”.

Cabinet care

The cabinet may be cleaned with a soft lint free cloth. The use of solvents or abrasive cleaners should be avoided.

Technical specifications

	REVEAL 402	REVEAL 502	REVEAL 802
Frequency response ¹	56 Hz to 48 kHz	49 Hz to 43 kHz	42 Hz to 43 kHz
Maximum SPL ²	101 dB	108 dB	114 dB
Distortion	< 0.9 %	< 0.7 %	< 0.4 %
Dispersion (-6 dB)	90°	90°	90°
Drive Unit LF / Midrange	100 mm (4")	130 mm (5")	200 mm (8")
	Multi fibre paper cones		
Drive unit HF	19 mm (3/4") soft dome	25 mm (1") soft dome	25 mm (1") soft dome
Magnetic shielding	No	No	No
Max. operating temperature	35° C	35° C	35° C
Electronic section			
Inputs	Balanced XLR: 20 kΩ Unbalanced 6.35 mm (1/4") & 3.5 mm mini-jack: 10 kΩ		
Outputs	Monitor Link		
Input sensitivity	0.775 volt RMS for maximum output		
Crossover frequency	2.8 kHz	2.3 kHz	1.8 kHz
Amplifier output power	LF: 25 W RMS, HF: 25 W RMS	LF: 50 W RMS, HF: 25 W RMS	LF: 75 W RMS, HF: 25 W RMS
User controls	Power on/off; Volume; High Frequency Equalizer (+1.5 dB Boost, Neutral, -1.5 dB cut), Left/Right Monitor Select		
Power supply	100 to 120 V and 200 to 240 V (switchable), 50 to 60 Hz		
Power consumption	96 W maximum	120 W maximum	240 W maximum
Fuse	100 to 120 V, T800 mAL/ 250 V	100 to 120 V, T1AL/ 250 V	100 to 120 V, T2AL/ 250 V

	REVEAL 402	REVEAL 502	REVEAL 802
	220 to 250 V, T400 mAL/ 250 V	220 to 240 V, T500 mAL/ 250 V	220 to 240 V, T1 AL/ 250 V
Cabinet			
Low frequency alignment		Optimized front port	
Cabinet construction		MDF cabinet with injection moulded front baffle	
Cabinet finish		Black fine texture	
Cabinet dimensions (H x W x D)	240 x 147 x 212 mm (9.45 x 5.79 x 8.35")	300 x 184 x 238 mm (11.81 x 7.24 x 9.37")	390 x 254 x 300 mm (15.35 x 10.00 x 11.81")

Notes

- 1: +/-3 dB measured at 1 m in an anechoic chamber.
- 2: Peak SPL at mix position for 1 pair driven.

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications, which Tannoy reserve the right to alter without prior notice. Please verify the latest specifications with critical applications.

