IMPORTANT

Warranty Certificate

Please take a few moments to complete the warranty card at the back of this booklet (or register at www.pmc-speakers.com) as this not only records the purchase of your product but also provides you with an opportunity to make suggestions and provide feedback directly to PMC.

Product Support

For product support, accessories or servicing advice, please contact a PMC authorised dealer. See www.pmc-speakers.com

Company Details

THE PROFESSIONAL MONITOR COMPANY LIMITED
HOLME COURT, BIGGLESWADE, SG18 9ST, UK
T. 0870 4441044  F. 0870 4441045
email: sales@pmc-speakers.com  web: www.pmc-speakers.com

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Ref. no - 483
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CE Conformity: PMC active loudspeakers conform to EC Directive LVD2006/95/EC and EMC 2004/108/EC.
WEEE European directive: PMC is a member of a National Compliance scheme and has gained the associated certification of compliance from the Environment Agency with the registration WEEE/GJ0101WU.

WEEE EU Directive

This symbol on the product, and in or on its packaging, indicates that this product must not be disposed of with other household waste. It is the responsibility of the owner to dispose of waste equipment via a designated collection point for the recycling of waste electrical and electronic equipment. The recycling of waste equipment is an attempt to conserve natural resources and ensures that it is recycled in a manner that protects human health and the environment. For more information about where to dispose of waste equipment for recycling, please contact your local waste/recycling authority or the dealer from whom you purchased the product.
Our sole aim while designing loudspeakers is to recreate the true essence of an artist’s intention, combining the ultimate level of sonic resolution with solid engineering principles.

We believe that the same loudspeaker can be used throughout the entire audio chain, from composer to studio or film stage, post-production or mastering and then, finally, the consumer. We also think that a well designed loudspeaker should be able to excel regardless of the audio genre, and reproduce spoken word, rock, pop, or classical music with the same precision and accuracy. Our unswerving passion for getting it right has made this goal possible.

Thank you for choosing PMC products. Please read this user guide and install your new twotwo remote control bearing in mind the advice given within.
Over more than two decades PMC has earned an unrivalled reputation for creating the world’s finest professional loudspeakers. Simply put, our loudspeakers provide a reference for the world’s highest profile productions and events. They are found at every stage of the creative process, from conception to recording and broadcast and, of course, in the home.

Our client list reads like a who’s who of the sonically aware, with Prince, Elbow, Stevie Wonder, Coldplay, Brian May, Universal, EMI, Sony, Pinewood Studios, Dreamworks, Deutsche Grammophon and the BBC among the makers of movies and music who use our products.

Our loudspeakers were also used in the production of Titanic, Spiderman III, Iron Man 2, Finding Nemo, Pirates of the Caribbean III, and during broadcasts of the London Olympics, 2012.

Congratulations - You have joined the elite.
User Guide

Contents

7 General Usage Guidelines
8 Introduction
9 Unpacking and Care
10 Specifications
11 Operational Controls
30 Menu Structure Table
33 Service
34 The PMC Professional Range
35 Warranty On-Line
36 Warranty Certificate – Part 1 – Your copy
37 Warranty Certificate – Part 2 – PMC’s copy
38 Help us improve – Your Comments
General Usage Guidelines

1. Read these instructions and keep them in a safe place for future reference.
2. Heed all electrical safety warnings, including any on the twotwo remote control itself.
3. Do not install the twotwo remote control near heat sources such as radiators, ovens or other very hot equipment.
4. Do not attempt to service the equipment. There are no user-serviceable parts inside. Please refer all servicing to PMC authorised personnel.
5. Servicing is required when the apparatus is damaged, exposed to moisture, or exhibits a distinct or sudden change of operation or audio performance.
6. Packaging material can pose danger to the young and vulnerable. Ensure these items are stored or disposed of safely.
7. twotwo Series loudspeakers can produce high sound pressure levels. Exposure to high levels of sound has the potential to cause hearing damage. Use care when adjusting the system volume to ensure sound pressure levels remain within safe and comfortable limits.
8. The twotwo remote control should only be cleaned with a dry, lint-free, cloth. Do not use solvents, abrasives, waxes or liquids as they may be detrimental to the finish.
9. PMC has made efforts to provide accurate installation information and good quality fixings. However, PMC will not be held responsible or liable for injuries or property damage (direct, indirect or consequential) arising out of use or inability to use this product safely and properly.
10. This product may contain nuts.
Introduction

Thank you for choosing the PMC twotwo remote control. This guide provides installation and operating instructions.

The twotwo remote control can be used with any combination of twotwo series loudspeakers and sub-woofers, allowing operational control and full configuration of all connected devices.

Connections

The twotwo remote control is connected to the RJ45 In socket on the first twotwo series in the control chain using the supplied RJ45 cable. The RJ45 Thru socket of the first loudspeaker in the chain is then connected to the RJ45 In socket of the subsequent speaker using another RJ45 cable. Additional speakers are daisy chained in the same manner.

The supplied loop-back terminator must be plugged into the RJ45 Thru port of the last loudspeaker in the control chain.

Loudspeakers can be connected in any order, but digital audio is passed only from one speaker to the following speaker in the chain. For example, if you connect a stereo digital input to the front left speaker, it makes sense to connect the front right speaker as the following device in the control chain, since it can then access the right audio channel directly via its RJ45 connection.
Unpacking and Care

This PMC twotwo remote control is packed in a protective carton. Please retain the carton to ensure that the device can be transported safely if the need arises in the future. If you dispose of the packaging please do so in an environmentally responsible and safe way.

What’s in the Box?

- 1x twotwo remote control
- 1x RJ45 control link cable
- 1x Loop-back terminator
- 1x User Guide

Do not attempt to use this remote controller if the packaging has been water-damaged.

Care and Service

In normal usage this PMC twotwo remote control should provide many years of trouble-free operation, but in the unlikely event that you suspect damage or failure has occurred do not attempt to repair the unit yourself. There are no user-serviceable parts inside. Contact your dealer for advice and a service return address.

Clean the remote control only with a dry and lint-free cloth, and avoid the use of solvents as they may damage the finish of the unit.
Specifications

Connections
A single RJ45 connector is provided which accepts power from any twotwo monitor or subwoofer and conveys control data into the twotwo network.

Maximum Cable Length
25 metres

Dimensions
H109.5  W143.5  D34 (mm)
**Operational Controls**

*twotwo* series monitors and sub-woofers can be configured and controlled via the optional *twotwo remote control* which has an LCD display with two rows of up to 16 characters each, plus four push buttons and a rotary control.

The top push button accesses the configuration MENU, with a BACK button below to exit. The PRESET button accesses the user preset facilities, and the MUTE button mutes the loudspeakers.

The menu displays are navigated using the rotary control wheel which has a push-button action to select the currently displayed parameter.

### 1 Power Up

With the remote control plugged into the first speaker in the chain and the speakers turned on, the display shows ‘Waiting...’ until all the speakers are fully powered up (see below).

<table>
<thead>
<tr>
<th>W</th>
<th>a</th>
<th>i</th>
<th>t</th>
<th>i</th>
<th>n</th>
<th>g</th>
<th>.</th>
<th>.</th>
<th>.</th>
</tr>
</thead>
</table>

#### 1.1 Standby Mode

Standby mode is activated when the Power Off Mode is selected in the main menu. In standby mode the display will look like this:

<table>
<thead>
<tr>
<th>Z</th>
<th>z</th>
<th>z</th>
</tr>
</thead>
</table>

**Actions:** (Note: Backlight is off, and there is no submenu)

- **Buttons:** MENU/BACK/PRESETS/MUTE/SELECT: The System turns on and the default display appears (see 2).
- **Rotary:** Nothing.

When powered on by the remote control, the LCDs on all *twotwo* monitors show the volume and source, eg:

<table>
<thead>
<tr>
<th>Volume</th>
<th>-20.5dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog</td>
<td>XLR</td>
</tr>
</tbody>
</table>
The LCD on any twotwo sub-woofers in the system shows the volume and LF Roll-off, e.g:

<table>
<thead>
<tr>
<th>Volume</th>
<th>LF Roll-off</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20.5dB</td>
<td>50Hz / 6</td>
</tr>
</tbody>
</table>

2 Default Display
This display appears when there is no menu activity for more than 60 seconds, when the BACK button is pressed in the main menu, PRESET menu, or after a button press in standby mode. When the system is un-muted the default display shows: (in this example only left and right channels are assigned and volume is +15dB)

<table>
<thead>
<tr>
<th>L _ R _ _ _ _ _ _</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+15.0dB</td>
</tr>
</tbody>
</table>

Actions: (Note: No Submenus)
- Rotary: UP/DOWN changes volume in 0.5dB steps (minimum -48.5dB, maximum +15dB). Save value and send value to all channels.
- Buttons: MENU: the main menu appears (see 3).
  BACK: If held for more than two seconds the volume locks at the current setting. The display looks like this (with +15.0 volume value as an example):

<table>
<thead>
<tr>
<th>L C R L R L R S S V Lock</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+15.0dB</td>
</tr>
</tbody>
</table>

If the BACK button is held again for more than two seconds the volume unlocks and the display reverts to the default display.
- PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds, the preset menu appears (see 4).
- SELECT: Nothing.
- MUTE: a mute command will be sent to all channels and the display back light will flash twice per second. The Volume cannot be changed during mute. (From now on this will be the default display, until the MUTE button is pressed in any menu). This display shows:

<table>
<thead>
<tr>
<th>All Channel Mute</th>
</tr>
</thead>
</table>

The LCD on each twotwo monitor displays Remote Mute and the input source. The backlight flashes slowly, eg:

<table>
<thead>
<tr>
<th>Remote Mute</th>
<th>Analogue XLR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3 Main Menu
The main menu is shown when the MENU button is pressed in the default display, or when BACK is pressed in the setup menu. The sub-menu options which appear depend on the last shown main sub-menu (in this example power off):

<table>
<thead>
<tr>
<th>tw</th>
<th>o</th>
<th>t</th>
<th>w</th>
<th>o</th>
<th>r</th>
<th>e</th>
<th>m</th>
<th>o</th>
<th>t</th>
<th>e</th>
<th>1</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sub-menus:** Power off, Setup

**Actions:**
- Rotary: UP/DOWN: scroll up/down in the submenu list.
- Buttons:
  - MENU: nothing.
  - BACK: default display appears (see 2).
  - PRESSET: If pressed briefly the current preset shown for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: dependent on submenu:
    - Power off: turn off and shows standby menu (see 1).
    - Setup: enters setup menu (see 3.1).
- MUTE: a mute/un-mute command is sent to all channels. If mute is enabled the display backlight will flash twice per second.

3.1 Setup Menu
The setup menu is shown when the SELECT button is pressed in the main menu with setup menu as the active sub-menu, or when the BACK button is pressed in the channel aliases menu, the analogue input sensitivity menu, or the channel settings menu. Which setup sub-menu option appears is dependent on the last shown setup sub-menu option. The last shown setup sub-menu option appears (in this example Channel Aliases):

| Set | up | C | h | a | n | n | e | l | A | l | i | a | s | e | s |

**Sub-menus:** Channel Aliases, Analogue Input Sensitivity, Backlight (BL) Timeout

1: None (default), Further channel aliases 2: None, ... down to 14: none.

**Actions:**
- Rotary: UP/DOWN: scrolls up/down through the sub-menu list.
- Buttons:
  - MENU: nothing.
  - BACK: the main menu appears (see 3).
  - PRESSET: if pressed briefly the current preset is displayed for two seconds. If pressed for more than two seconds the preset menu appears (see 4).
  - SELECT: dependent on sub-menu.
    - Channel Aliases: enter Aliases Channel Select menu (see 3.1.1).
    - Analogue Input Sensitivity: enter Analogue Sensitivity menu (see 3.1.4).
    - Backlight (BL) Timeout: enter BL timeout menu (see 3.1.3)
      1: None: enter channel Settings Menu (see 3.1.4)
      2: None: enter channel Settings Menu (see 3.1.4)
      ... 14: None: enter channel Settings Menu (see 3.1.4)
- MUTE: a mute/un-mute command will be sent to all channels and the display backlight will flash twice per second when the mute is active.
3.1.1 Aliases Channel Select Menu
The aliases channel select menu is shown when the SELECT button is pressed in the setup menu with channel aliases menu as the active sub-menu, or when the BACK button is pressed in channel aliases menu. Which aliases appear in the channel select sub-menu option depends on the last shown aliases channel select sub-menu option (in this example Ch1).

<table>
<thead>
<tr>
<th>C</th>
<th>h</th>
<th>a</th>
<th>n</th>
<th>n</th>
<th>e</th>
<th>l</th>
<th>A</th>
<th>l</th>
<th>i</th>
<th>a</th>
<th>s</th>
<th>e</th>
<th>s</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>h</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sub-menus: Access Ch1 through Ch14
Actions:
Rotary: UP/DOWN: scroll up/down in the submenu list.
Buttons: MENU: nothing.
BACK: the setup menu appears (see 3.1).
PRESET: if pressed briefly the current preset is displayed for 2 seconds. If pressed for more than two seconds the preset menu appears (see 4).
SELECT: enters channel aliases menu (see 3.1.1.1).
MUTE: a mute/un-mute command will be sent to all channels. The display backlight flashes twice per second when muted.

3.1.1.1 Channel Aliases Menu
The channel aliases menu is shown when the SELECT button is pressed in the aliases channel select menu. The selected channel appears (in the example below, channel one is selected). The channel aliases sub-menu option that appears depends on the current channel alias, but the selected channel and current alias is shown in the display (in this example the default option: None).

<table>
<thead>
<tr>
<th>C</th>
<th>h</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>l</td>
<td>i</td>
</tr>
<tr>
<td>N</td>
<td>o</td>
<td>n</td>
</tr>
</tbody>
</table>

Sub-menus: None, Left, Right, Centre, Left Surround, Right Surround, Left Back, Right Back, Sub woofer (Note: Subwoofer only appears if one is detected in the system: see 3.1.5)
Actions:
Rotary: Up/Down: scroll up/down in the sub-menu list.
Buttons: MENU: nothing
BACK: the aliases channel select menu appears (see 3.1.1).
PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
SELECT: Stores the current alias.
MUTE: a mute/un-mute command will be sent to all channels. The display backlight will flash twice per second when muted.
### 3.1.2 Analogue Input Sensitivity Menu

The analogue input sensitivity menu is shown when the SELECT button is pressed in the setup menu with analogue input sensitivity menu as active sub-menu. The current value appears (in this example +4.00dB).

<table>
<thead>
<tr>
<th>An</th>
<th>alogue Input Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>+4</td>
<td>0 0</td>
</tr>
</tbody>
</table>

**Actions:** (Note: No submenus.)

**Rotary:** UP/DOWN: change the analogue input sensitivity in steps of 0.25dB, with a minimum value of +4dB and a maximum of +20dB.

**Buttons:**
- BACK: the setup menu appears (see 3.1).
- PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
- SELECT: saves value and sends to all channels. Setup menu appears (see 3.1).
- MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.3 BackLight (BL) Timeout

The Backlight (BL) Timeout menu is shown when the SELECT button is pressed in the setup menu with the BL Timeout menu as active submenu. The BL Timeout submenu option which appears depends on the current BL Timeout. The current BL Timeout value appears (in this example 2 mins).

<table>
<thead>
<tr>
<th>BackLight Timeout</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 min</td>
</tr>
</tbody>
</table>

**Sub-menu:** OFF, 30 sec, 2 min, 5 min

**Actions:**

**Rotary:** UP/DOWN: scrolls up/down through the sub-menu list.

**Buttons:**
- BACK: the setup menu appears (see 3.1) .
- PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
- SELECT: saves setting and sends to all channels. Setup menu appears (see 3.1).
- MUTE: a mute/un-mute command is sent to all channels. The display backlight flashed twice per second when muted.
3.1.4 Channel Settings Menu

The Channel Settings menu is shown when the SELECT button is pressed in the setup menu with Channel Settings menu as active sub-menu, or when the back button is pressed in main source menu, main trim menu, twotwo HF shelf, twotwo LF shelf, twotwo LF Rollof, twotwo LF RollFR, or Subwoofer settings menus. The selected channel in the setup menu and selected alias appears (in this example Left). The Channel Settings sub-menu option which appears depends on the last shown sub-menu option (eg. Main Source).

| Left | Main Source |

Sub-menus: Main Source, Main Trim, twotwo HF Shelf, twotwo LF Shelf, twotwo LF Rollof, twotwo LF RollFR

Actions:

Rotary: UP/DOWN: scrolls up/down through the sub-menu list.

Buttons: MENU: nothing.

BACK: the setup menu appears (see 3.1).

PRESET: If pressed briefly the display shows the current preset for two seconds. If held for more than two seconds the preset menu appears (see 4).

SELECT: depends on sub-menu:

- Main Source: enter Main Source menu (see 3.1.4.1).
- Main Trim: enter Main Trim menu (see 3.1.4.2).
- twotwo HF Shelf: enter HF Shelf menu (see 3.1.4.3)
- twotwo LF Shelf: enter LF Shelf menu (see 3.1.4.4)
- twotwo LF Rollof: enter LF Rollof menu (see 3.1.4.5)
- twotwo LF RollFR: enter LF RollFR menu (see 3.1.4.6)

MUTE: a mute/un-mute command is sent to all channels. The display backlight will flash once per second when muted.

3.1.4.1 Main Source Menu

The Main Source menu is shown when the SELECT button is pressed in the Channel Setting menu with Main Source as active sub-menu. The selected channel in the channel settings menu appears (in the example below, Channel 1). Which Main source sub-menu option appears depends on the current main source (in this example, Analogue XLR).

| Analogue XLR |

Sub-menus: Analogue XLR, Analogue RCA, Main AES3 Left, Main AES3 Right.

Actions:

Rotary: UP/DOWN: scroll up/down in the sub-menu list.

Buttons: MENU: nothing.

BACK: the channel settings menu appears (see 3.1.4).

PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).

SELECT: saves setting and sends to selected channel. The channel settings menu appears (see 3.1.4).

MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
3.1.4.2 Main Trim Menu
The Main Trim menu is shown when the SELECT button is pressed in the Channel Setting menu with Main Trim as active sub-menu. The current value appears (in this example +1.00dB).

<table>
<thead>
<tr>
<th>M</th>
<th>a</th>
<th>i</th>
<th>n</th>
<th>T</th>
<th>r</th>
<th>i</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>0</td>
<td>1</td>
<td>.</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actions:**
(Note: No submenus)
- **Rotary:** UP/DOWN: changes the Main trim in steps of 0.125dB. The minimum setting is -8.00dB and the maximum is +7.87dB.
- **Buttons:**
  - BACK: the channel settings menu appears (see 3.1.4).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves value and sends to selected channel. The channel settings menu appears (see 3.1.4).
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes once per second when muted.

3.1.4.3 twotwo HF Shelf Menu
The HF Shelf menu is shown when the SELECT button is pressed in the Channel Setting menu with HF Shelf as active sub-menu. The curent value appears (in this example +01.00dB)

<table>
<thead>
<tr>
<th>t</th>
<th>w</th>
<th>o</th>
<th>t</th>
<th>w</th>
<th>o</th>
<th>H</th>
<th>F</th>
<th>S</th>
<th>h</th>
<th>e</th>
<th>l</th>
<th>f</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>0</td>
<td>1</td>
<td>.</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actions:**
(Note: No submenus)
- **Rotary:** UP/DOWN: changes HF Shelf in steps of 0.125dB. The minimum value is -4.00dB and the maximum is +4.00dB.
- **Buttons:**
  - BACK: the channel settings menu appears (see 3.1.4).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The channel settings menu appears (see 3.1.4).
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
### 3.1.4.4 twotwo LF Shelf Menu

The LF Shelf menu is shown when the SELECT button is pressed in the Channel Setting menu with LF Shelf as active submenu. The current value appears. (In this example +01.00dB)

<table>
<thead>
<tr>
<th>t</th>
<th>w</th>
<th>o</th>
<th>t</th>
<th>w</th>
<th>o</th>
<th>L</th>
<th>F</th>
<th>S</th>
<th>h</th>
<th>e</th>
<th>l</th>
<th>f</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>0</td>
<td>1</td>
<td>.</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actions:**
- **Rotary:** UP/DOWN: changes the LF Shelf in steps of 0.125dB. The minimum value is -4.00dB and the maximum is +4.00dB
- **Buttons:**
  - MENU: nothing.
  - BACK: the channel settings menu appears (see 3.1.4).
  - PRESET: If pressed briefly the current preset is displayed for two seconds.
  - If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves value and sends to selected channel. The channel settings menu appears (see 3.1.4).
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.4.5 twotwo LF Rollof Menu

The LF Rollof menu is shown when the SELECT button is pressed in the Channel Setting menu with LF Rolloff as active sub-menu. The current value appears (in this example On)

<table>
<thead>
<tr>
<th>t</th>
<th>w</th>
<th>o</th>
<th>t</th>
<th>w</th>
<th>o</th>
<th>L</th>
<th>F</th>
<th>R</th>
<th>o</th>
<th>l</th>
<th>l</th>
<th>o</th>
<th>f</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Submenus:**
- On, Off

**Actions:**
- **Rotary:** UP/DOWN: scroll up/down in the sub-menu list.
- **Buttons:**
  - MENU: nothing.
  - BACK: the channel settings menu appears (see 3.1.4).
  - PRESET: If pressed briefly the current preset is displayed for two seconds.
  - If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The channel settings menu appears (see 3.1.4).
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.4.6 twotwo LF RollFr Menu

The LF RollFr menu is shown when the SELECT button is pressed in the Channel Setting menu with LF RollFr as active submenu. Which LF RollFr sub-menu option appears depends on the current LF RollFr (in this example, 200Hz)

<table>
<thead>
<tr>
<th>t</th>
<th>w</th>
<th>o</th>
<th>t</th>
<th>w</th>
<th>o</th>
<th>L</th>
<th>F</th>
<th>R</th>
<th>o</th>
<th>l</th>
<th>l</th>
<th>F</th>
<th>r</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>H</td>
<td>z</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Submenus:
50Hz, 80Hz, 120Hz, 150Hz, 200Hz

Actions:
- **Rotary:** UP/DOWN: scroll up/down in the sub-menu list
- **Buttons:**
  - **MENU:** nothing.
  - **BACK:** the channel settings menu appears (see 3.1.4).
  - **PRESET:** If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - **SELECT:** saves value and sends to selected channel. The channel settings menu appears (see 3.1.4).
  - **MUTE:** a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.5 Subwoofer Menu

The Subwoofer menu is shown when the SELECT button is pressed in the setup menu with Subwoofer menu as active submenu, or when the BACK button is pressed in main source menu, main trim menu, HF shelf, LF shelf, LF Rollof, LF RollFr or Subwoofer settings menus. The subwoofer alias appears. Which Subwoofer submenu option appears depends on the last shown subwoofer submenu option. The last shown subwoofer submenu option appears. (In this example Main Source).

<table>
<thead>
<tr>
<th>Subwoofer</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subwoofer</td>
<td>Source</td>
</tr>
</tbody>
</table>

**Submenus:**
Main Source, Main Trim, Sub LF Rollslope, Sub LF RollFr, +10dB Gain, Phase Reverse, Phase, Parametric EQ, PEQ Gain, PEQ Freq, PEQ Q, LR Out Response, LR Out Level.

**Actions:**
- **Rotary:** UP/DOWN: scroll up/down in the sub-menu list
- **Buttons:**
  - **MENU:** nothing.
  - **BACK:** the Setup menu appears (see 3.1).
  - **PRESET:** If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - **SELECT:** depends on submenu:
    - **Main Source:** enter Main Source menu (see 3.1.5.1).
    - **Main Trim:** enter Main Trim menu (see 3.1.5.2).
    - **Sub LF Rollslope:** enter Sub LF Rollslope menu (see 3.1.5.3)
    - **Sub LF RollFr:** enter Sub LF RollFr menu (see 3.1.5.4)
    - **+10dB Gain:** enter +10dB Gain menu (see 3.1.5.5)
    - **Phase Reverse:** enter Phase Reverse menu (see 3.1.5.6)
    - **Phase:** enter Phase menu (see 3.1.5.7)
    - **Parametric EQ:** enter Parametric EQ menu (see 3.1.5.8)
    - **PEQ Gain:** enter PEQ Gain menu (see 3.1.5.9)
    - **PEQ Freq:** enter PEQ Freq menu (see 3.1.5.10)
    - **PEQ Q:** enter PEQ Q menu (see 3.1.5.11)
    - **LR Out Response:** enter LR Out Level menu (See 3.1.5.12)
    - **LR Out Level:** enter LR Out Level menu (See 3.1.5.13)
  - **MUTE:** a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
### 3.1.5.1 Main Source Menu

The Main Source menu is shown when the SELECT button is pressed in the Subwoofer menu with Main Source as active submenu. Which Main source submenu option appears depends on the current main source. The current main source option appears. (In this example Analogue XLR)

<table>
<thead>
<tr>
<th>Main Source Menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analogue XLR, Main AES3 Left, Main AES3 Right, AES L+R</td>
</tr>
</tbody>
</table>

**Submenus:**
- Analogue XLR
- Main AES3 Left
- Main AES3 Right
- AES L+R

**Actions:**
- **Rotary:** UP/DOWN: scroll up/down in the sub-menu list
- **Buttons:**
  - MENU: nothing.
  - BACK: the Setup menu appears (see 3.1.5).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.5.2 Main Trim Menu

The Main Trim menu is shown when the SELECT button is pressed in the Subwoofer menu with Main Trim as active submenu. The current value appears. (In this example +1.00)

<table>
<thead>
<tr>
<th>Main Trim Menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 0 1 . 0 0</td>
</tr>
</tbody>
</table>

**Actions:**
- **Rotary:** UP/DOWN: changes the Main trim in steps of 0.125dB. The minimum setting is -8.00dB and the maximum is +7.87dB.
- **Buttons:**
  - MENU: nothing.
  - BACK: the Setup menu appears (see 3.1.5).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.5.3 Sub LF Rollslope Menu

The Sub LF Rollslope menu is shown when the SELECT button is pressed in the Subwoofer menu with Sub LF Rollslope as active submenu. Which Sub LF Rollslope submenu option appears depends on the current Sub LF Rollslope. (In this example the Sub LF Rollslope option is 6dB/Oct)

<table>
<thead>
<tr>
<th>Sub LF Rollslope Menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 dB / Oct</td>
</tr>
</tbody>
</table>
### Submenus:

- Off, 6dB/Oct, 12dB/Oct, 18dB/Oct

### Actions:

- **Rotary:** UP/DOWN: scroll up/down in the sub-menu list
- **Buttons:**
  - MENU: nothing.
  - BACK: the Setup menu appears (see 3.1.5).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.5.4 Sub LF RollFr Menu

The Sub LF RollFr menu is shown when the SELECT button is pressed in the Subwoofer menu with Sub LF RollFr as active submenu. Which Sub LF RollFr submenu option appears depends on the current Sub LF RollFr.

<table>
<thead>
<tr>
<th>S</th>
<th>u</th>
<th>b</th>
<th>L</th>
<th>F</th>
<th>R</th>
<th>o</th>
<th>l</th>
<th>l</th>
<th>f</th>
<th>r</th>
<th>e</th>
<th>q</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>H</td>
<td>z</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Submenus:** 50Hz, 80Hz, 120Hz, 150Hz, 200Hz
- **Actions:**
  - UP/DOWN: scroll up/down in the sub-menu list
  - BACK: the Setup menu appears (see 3.1.5).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.5.5 +10dB Gain Menu

The +10dB Gain menu is shown when the SELECT button is pressed in the Subwoofer menu with +10dB Gain as active submenu. The current value appears. (In this example: On)

<table>
<thead>
<tr>
<th>+</th>
<th>1</th>
<th>0</th>
<th>d</th>
<th>B</th>
<th>G</th>
<th>a</th>
<th>i</th>
<th>n</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Submenus:** On, Off
- **Actions:**
  - UP/DOWN: scroll up/down in the sub-menu list
  - BACK: the Setup menu appears (see 3.1.5).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
3.1.5.6 Phase Reverse Menu
The Phase Reverse menu is shown when the SELECT button is pressed in the Subwoofer menu with Phase
Reverse as active submenu. The current value appears. (In this example: On)

<table>
<thead>
<tr>
<th>P</th>
<th>h</th>
<th>a</th>
<th>s</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>n</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submenus: On, Off

Rotary: UP/DOWN: scroll up/down in the sub-menu list
Buttons: MENU: nothing.
BACK: the Setup menu appears (see 3.1.5).
PRESET: If pressed briefly the current preset is displayed for two seconds.
If held for more than two seconds the preset menu appears (see 4).
SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

3.1.5.7 Phase Menu
The Phase menu is shown when the SELECT button is pressed in the Subwoofer menu with Phase as active
submenu. The current value appears. (In this example 30deg)

<table>
<thead>
<tr>
<th>P</th>
<th>h</th>
<th>a</th>
<th>s</th>
<th>e</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Actions: (Note: No Submenus)
Rotary: UP/DOWN: changes the Phase in 5 degree steps. The minimum setting is 0
degrees and the maximum is 180 degrees.
Buttons: MENU: nothing.
BACK: the Setup menu appears (see 3.1.5).
PRESET: If pressed briefly the current preset is displayed for two seconds.
If held for more than two seconds the preset menu appears (see 4).
SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

3.1.5.8 Parametric EQ Menu
The Parametric EQ menu is shown when the SELECT button is pressed in the Subwoofer menu with Parametric
EQ as active submenu. The current value appears. (In this example: On)

<table>
<thead>
<tr>
<th>P</th>
<th>a</th>
<th>r</th>
<th>a</th>
<th>m</th>
<th>e</th>
<th>t</th>
<th>r</th>
<th>i</th>
<th>c</th>
<th>E</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**3.1.5.9 PEQ Gain Menu**

The PEQ Gain menu is shown when the SELECT button is pressed in the Subwoofer menu with PEQ Gain as active submenu. The current value appears. (In this example +1.00)

<table>
<thead>
<tr>
<th>P</th>
<th>E</th>
<th>Q</th>
<th>G</th>
<th>a</th>
<th>i</th>
<th>n</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>0</td>
<td>1</td>
<td>.</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Actions:**

(Note: No submenus)

**Rotary:** UP/DOWN: changes the PEQ gain in steps of 0.125dB. The minimum setting is -8.00dB and the maximum is +7.87dB.

**Buttons:**

- **MENU:** nothing.
- **BACK:** the Setup menu appears (see 3.1.5).
- **PRESET:** If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
- **SELECT:** saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
- **MUTE:** a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

**3.1.5.10 PEQ Freq Menu**

The PEQ Freq menu is shown when the SELECT button is pressed in the Subwoofer menu with PEQ Freq as active submenu. The current value appears. (In this example 80Hz)

<table>
<thead>
<tr>
<th>P</th>
<th>E</th>
<th>Q</th>
<th>F</th>
<th>r</th>
<th>e</th>
<th>q</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>0</td>
<td>H</td>
<td>z</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actions:**

(Note: No submenus)

**Rotary:** UP/DOWN: changes the PEQ centre frequency in 5Hz steps. The minimum setting is 20Hz and the maximum is 150Hz.

**Buttons:**

- **MENU:** nothing.
- **BACK:** the Setup menu appears (see 3.1.5).
- **PRESET:** If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
- **SELECT:** saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
- **MUTE:** a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
### 3.1.5.11 PEQ Q Menu

The PEQ Q menu is shown when the SELECT button is pressed in the Subwoofer menu with PEQ Q as active submenu. The current value appears. (In this example 5)

![P E Q Q]

| + | 0 | 5 | . | 0 | 0 |

**Actions:**
(Note: No submenus)
- **Rotary:** UP/DOWN: changes the PEQ Q (bandwidth) in steps of 0.5. The minimum setting is 1.0 and the maximum is 8.0.
- **Buttons:**
  - BACK: the Setup menu appears (see 3.1.5).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

### 3.1.5.12 LR Out Response

The LR Out Response menu is shown when the SELECT button is pressed in the Subwoofer menu with LR Out Response as active submenu. The current value appears. (In this example: Filtered)

![L R O u t R e s p o n s e]

Submenus: Filtered, Full-range

**Actions:**
- **Rotary:** UP/DOWN: scroll up/down in the sub-menu list
- **Buttons:**
  - BACK: the Setup menu appears (see 3.1.5).
  - PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
3.1.5.13 LR Out Level
The LR Out Level menu is shown when the SELECT button is pressed in the Subwoofer menu with LR Out Level as active submenu. The current value appears. (In this example: Fixed)

<table>
<thead>
<tr>
<th>L</th>
<th>R</th>
<th>Out Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>i</td>
<td>x</td>
</tr>
</tbody>
</table>

Submenus: Fixed, Variable

Actions:
- Rotary: UP/DOWN: scroll up/down in the sub-menu list
- Buttons: MENU: nothing.
- BACK: the Setup menu appears (see 3.1.5).
- PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
- SELECT: saves setting and sends to selected channel. The Subwoofer menu appears (see 3.1.5)
- MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

4 Preset Menu
The preset menu is shown whenever the PRESET button is pressed (unless in standby mode), or when the BACK button is pressed in the preset setup menu. Which preset sub-menu option appears depends on the last shown preset sub-menu option (this example shows the Preset Setup). An asterix (*) means the name is changeable by the user.

<table>
<thead>
<tr>
<th>Preset</th>
<th>Set up</th>
</tr>
</thead>
</table>

Sub-menus: Preset Setup, No Preset, 1:PRESET A* to 5:PRESET E*

Actions:
- Rotary: UP/DOWN: scrolls up/down through the sub-menu list.
- Buttons: MENU: nothing.
- BACK: the default display appears (see 2).
- PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds: nothing.
- SELECT: depends on sub-menu:
  - Preset Setup: enters Preset Setup menu (see 4.1).
  - No Preset: clears preset values. Shows selected preset for two seconds and enters default display (see 2).
  - Preset A*-E*: activates preset A-E settings. Displays selected preset for two seconds and enters default display (see 2).
- MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
4.1 Preset Setup Menu

The preset setup menu is shown when the SELECT button is pressed in the preset menu with preset setup as the active sub-menu, or when the BACK button is pressed in the preset aliases menu or preset settings menu. Which setup sub-menu option appears depends on the last shown preset setup sub-menu option (in this example, Preset Aliases).

BACK: the preset menu appears (see 4). | PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4). | SELECT: depends on sub-menu: | Preset Aliases: enter Aliases Preset Select menu (see 4.1.1) | Preset A*-E*: enter Preset settings menu (see 4.1.2) | MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted. |

4.1.1 Preset Aliases Select Menu

The aliases preset select menu is shown when the SELECT button is pressed in the preset setup menu with aliases preset select as active sub-menu. Which aliases preset select sub-menu option appears depends on the last shown aliases preset select sub-menu option (in this example, 1).

| Preset Aliases | Sub-menus: 1:PRESET A* to 5: PRESET E*
BACK: the preset setup menu appears (see 4). | PRESET: If pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4). | SELECT: depends on sub-menu. | MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
4.1.1 Preset Aliases Menu
The preset aliases menu is shown when the SELECT button is pressed in the preset setup menu. The selected preset is shown (in this example 1). Which alias appears depends on the last stored alias.

<table>
<thead>
<tr>
<th>A</th>
<th>l</th>
<th>i</th>
<th>a</th>
<th>s</th>
<th>P</th>
<th>r</th>
<th>e</th>
<th>s</th>
<th>e</th>
<th>t</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>R</td>
<td>E</td>
<td>S</td>
<td>E</td>
<td>T</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sub-menus: A to Z.

Actions:
- **Rotary:** If no place selected: UP/DOWN scrolls between characters, left to right. If place selected, UP/DOWN scrolls through the alphabet.
- **Buttons:**
  - BACK: the aliases preset select menu appears (see 4.1.1).
  - PRESET: if pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: When no character us selected this highlights the current position to change character. The UP/DOWN rotary function can then be used to scroll through the alphabet. Selecting a character stores the current character.
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

4.1.2 Preset Settings Menu
The preset settings menu is shown when the select button is pressed in the preset setup menu with one of the five presets as active submenu, or when the back button is pressed in the preset Front LF Shelf menu, Front HF Shelf menu, Rear LF Shelf menu, Rear HF Shelf menu. Which preset settings submenu option appears depends on the last shown preset settings submenu option (in this example Front LF Shelf).

<table>
<thead>
<tr>
<th>P</th>
<th>r</th>
<th>e</th>
<th>s</th>
<th>e</th>
<th>t</th>
<th>S</th>
<th>e</th>
<th>t</th>
<th>t</th>
<th>i</th>
<th>n</th>
<th>g</th>
<th>s</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>r</td>
<td>o</td>
<td>n</td>
<td>t</td>
<td>L</td>
<td>F</td>
<td>S</td>
<td>h</td>
<td>e</td>
<td>l</td>
<td>f</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sub-menus: Front LF Shelf, Front HF Shelf, Rear LF Shelf, Rear HF Shelf.

Actions:
- **Rotary:** UP/DOWN: scrolls up/down through the sub-menu list.
- **Buttons:**
  - BACK: the preset setup menu appears (see 4).
  - PRESET: if pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
  - SELECT: depends on sub-menu:
    - Front LF Shelf: enter Front LF Shelf menu (see 4.1.2.1).
    - Front HF Shelf: enter Front HF Shelf menu (see 4.1.2.2).
    - Rear LF Shelf: enter Rear HF Shelf menu (see 4.1.2.3).
    - Rear HF Shelf: enter Rear HF Shelf menu (see 4.1.2.4).
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.
4.1.2.1 Front LF Shelf Menu

The Front LF Shelf menu is shown when the SELECT button is pressed in the preset settings menu with Front LF Shelf as active sub-menu (in this example 1), along with the current value (in this example +1.00dB).

<table>
<thead>
<tr>
<th>1</th>
<th>F r o n t</th>
<th>L F Shelf</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 1 0 0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actions:** (Note: No Submenus)
- **Rotary:** UP/DOWN: changes the Front LF Shelf in steps of 0.125dB. The minimum value is -8.00dB and the maximum is +7.87dB.
- **Buttons:**
  - BACK: the preset settings menu appears (see 4.1.2).
  - PRESET: if pressed briefly the current preset is displayed for two seconds.
  - If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves value and sends to all channels. The preset settings menu appears (see 4.1.2).
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

4.1.2.2 Front HF Shelf Menu

The Front HF Shelf menu is shown when the SELECT button is pressed in the preset settings menu with Front HF Shelf as active sub-menu: (1 in this example) along with the current value (+1.00dB).

<table>
<thead>
<tr>
<th>1</th>
<th>F r o n t</th>
<th>H F Shelf</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 1 0 0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actions:** (Note: No Submenus)
- **Rotary:** UP/DOWN: changes the Front HF Shelf in steps of 0.125dB. The minimum value is -8.00dB and the maximum is +7.87dB.
- **Buttons:**
  - BACK: the preset settings menu appears (see 4.1.2).
  - PRESET: if pressed briefly the current preset is displayed for two seconds.
  - If held for more than two seconds the preset menu appears (see 4).
  - SELECT: saves value and sends to all channels. The preset settings menu appears (see 4.1.2).
  - MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

4.1.2.3 Rear LF Shelf Menu

The Rear LF Shelf menu is shown when the SELECT button is pressed in the preset settings menu with Rear LF Shelf as active sub-menu: (1 in this example) along with the current value (in this example +1.00dB).

<table>
<thead>
<tr>
<th>1</th>
<th>R e a r</th>
<th>L F Shelf</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 1 0 0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Actions: (Note: No submenus)
  Rotary: UP/DOWN: changes the rear LF Shelf in steps of 0.125dB. The minimum value is -8.00dB and the maximum is +7.87dB.
  Buttons: MENU: nothing.
            BACK: the preset settings menu appears (see 4.1.2).
            PRESET: if pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4).
            SELECT: saves value and sends to all channels. The preset settings menu appears (see 4.1.2).
            MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

4.1.2.4 Rear HF Shelf Menu
The Rear HF Shelf menu is shown when the SELECT button is pressed in the preset settings menu with Rear HF Shelf as active sub-menu. The selected preset in the preset settings menu appears (1 in this example) along with the current value (in this example +1.00dB).

<table>
<thead>
<tr>
<th></th>
<th>Rear HF Shelf</th>
</tr>
</thead>
<tbody>
<tr>
<td>+1</td>
<td>+1.00</td>
</tr>
</tbody>
</table>

Actions: (Note: No Submenus)
  Rotary: UP/DOWN: changes the rear LF Shelf in steps of 0.125dB. The minimum value is -8.00dB and the maximum is +7.87dB.
  Buttons: MENU: nothing
            BACK: the preset settings menu appears (see 4.1.2)
            PRESET: if pressed briefly the current preset is displayed for two seconds. If held for more than two seconds the preset menu appears (see 4)
            SELECT: saves value and sends to all channels. The preset settings menu appears (see 4.1.2)
            MUTE: a mute/un-mute command is sent to all channels. The display backlight flashes twice per second when muted.

Summary Table
The table on the following three pages summarises the menu structure of these control functions and associated displays, with reference to the notes below:

1. Menu option only available if subwoofer detected in system.
2. **twotwo** menu items do not appear if channel has subwoofer alias.
3. Section only available with subwoofer alias and subwoofer detected in system.
4. Phase shift in five degree steps.
5. Adjusts PEQ frequency in 5Hz steps.
6. Adjusts PEQ bandwidth (Q) in 0.5 steps.

⚠️ Please Note: The final loudspeaker in the chain must have the loop-back connector fitted to the RJ45 Remote Thru socket.
<table>
<thead>
<tr>
<th>Display</th>
<th>Buttons</th>
<th>Rotary</th>
<th>Select</th>
<th>Rotary</th>
<th>Select</th>
<th>Rotary</th>
<th>Select</th>
<th>Rotary</th>
<th>Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>Volume</td>
<td>-48.5 to +15dB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chan Assignment</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volume/Vlock</td>
<td>Back &gt;2 secs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Menu</td>
<td>Power Off</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setup</td>
<td></td>
<td>-</td>
<td>Channel Aliases - Ch.1 None Left Right Centre Left Surround Right Surround Left Back Right Back Subwoofer (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Channel Mute</td>
<td>MUTE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blacklight Flashes</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analogue In Sens</td>
<td></td>
<td>-</td>
<td>+4dB to +20dB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight Timeout</td>
<td></td>
<td>-</td>
<td>Off 30 sec 2 min 5 min</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left</td>
<td></td>
<td>-</td>
<td>Main Source Analogue XLR Analogue RCA Main AES3 Left Main AES3 Right</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Main Trim</td>
<td></td>
<td>-</td>
<td>-8.00 to +7.87dB</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>twotwo HF Shelf</td>
<td>(2)</td>
<td>-</td>
<td>-4.00dB to +4.00dB</td>
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<tr>
<td>Display</td>
<td>Rotary</td>
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<td>Select</td>
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</tr>
<tr>
<td>Main Trim</td>
<td>-8.00d to +7.87dB</td>
<td>-4.00dB to +4.00dB</td>
<td>-4.00dB to +4.00dB</td>
<td>-4.00dB to +4.00dB</td>
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<td></td>
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</tr>
<tr>
<td>Iwwo LF Roll</td>
<td>Off</td>
<td>On</td>
<td>50Hz</td>
<td>80Hz</td>
<td>120Hz</td>
<td>200Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iwwo LF RollFreq</td>
<td>50Hz</td>
<td>80Hz</td>
<td>120Hz</td>
<td>200Hz</td>
<td></td>
<td></td>
<td></td>
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</tr>
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<td>Left Surround</td>
<td>Right Surround</td>
<td>Left Back</td>
<td>Right Front</td>
<td>Subwoofer (3)</td>
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<td></td>
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</tr>
<tr>
<td>Main Source</td>
<td>-</td>
<td>Analogue XLR</td>
<td>Main AES 3 Left</td>
<td>Main AES 3 Right</td>
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<td>AES L+R</td>
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<td>Sub LF RollSlope</td>
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<td>6dB/Oct</td>
<td>12dB/Oct</td>
<td>18dB/Oct</td>
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<tr>
<td>Sub LF RollFreq</td>
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<td>80Hz</td>
<td>120Hz</td>
<td>150Hz</td>
<td>200Hz</td>
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<td>Select</td>
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<td>+10dB Gain</td>
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<td>Phase Reverse</td>
<td>Off</td>
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<td>0 – 180 degrees</td>
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<td>Off</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>PEQ Gain</td>
<td>-8.00 to +7.87dB</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PEQ Freq</td>
<td>20Hz – 150Hz (5)</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>PEQ Q</td>
<td>1 to 8 (4)</td>
<td></td>
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</table>

**Current Preset**

**Preset 'n' Alias**

<table>
<thead>
<tr>
<th>Preset</th>
<th>Presets &gt;2 secs</th>
<th>Preset Setup</th>
<th>Preset Aliases</th>
<th>Preset A</th>
<th>–</th>
<th>ABC...HIJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Preset</td>
<td>PRESETS</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Preset ‘n’ Alias</td>
<td>PRESETS</td>
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<td></td>
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<td>–</td>
</tr>
<tr>
<td>Preset 'n' Alias</td>
<td>PRESETS</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Preset 'n' Alias</td>
<td>PRESETS</td>
<td></td>
<td></td>
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<td></td>
<td>–</td>
</tr>
<tr>
<td>Preset 'n' Alias</td>
<td>PRESETS</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>Preset 'n' Alias</td>
<td>PRESETS</td>
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<td></td>
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<td></td>
<td>–</td>
</tr>
<tr>
<td>Preset 'n' Alias</td>
<td>PRESETS</td>
<td></td>
<td></td>
<td>–</td>
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</tr>
<tr>
<td>Preset 'n' Alias</td>
<td>PRESETS</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Current Preset**

**Preset 'n' Alias**

<table>
<thead>
<tr>
<th>Preset</th>
<th>Presets &gt;2 secs</th>
<th>Preset Setup</th>
<th>Preset Aliases</th>
<th>Preset A</th>
<th>–</th>
<th>ABC...HIJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: PRESET A</td>
<td>–</td>
<td>Front LF Shelf</td>
<td>–</td>
<td>-4.00 to +4.00dB</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>2: PRESET B</td>
<td>–</td>
<td>Front HF Shelf</td>
<td>–</td>
<td>-4.00 to +4.00dB</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>3: PRESET C</td>
<td>–</td>
<td>Rear LF Shelf</td>
<td>–</td>
<td>-4.00 to +4.00dB</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>4: PRESET D</td>
<td>–</td>
<td>Rear HF Shelf</td>
<td>–</td>
<td>-4.00 to +4.00dB</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>5: PRESET E</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<td>–</td>
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</table>

**Current Preset**

**Preset 'n' Alias**

<table>
<thead>
<tr>
<th>Preset</th>
<th>Presets &gt;2 secs</th>
<th>Preset Setup</th>
<th>Preset Aliases</th>
<th>Preset A</th>
<th>–</th>
<th>ABC...HIJ</th>
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</thead>
<tbody>
<tr>
<td>No Preset</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1: PRESET A</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>2: PRESET B</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>3: PRESET C</td>
<td>–</td>
<td>–</td>
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<td>–</td>
<td>–</td>
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<tr>
<td>4: PRESET D</td>
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<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>5: PRESET E</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
We are confident that your twotwo remote control will afford many years of trouble-free use. However, in the unlikely event of requiring repair, for any issues that might arise, or for advice and service requirements, the primary point of contact should be your authorised PMC dealer/distributor.

If you do not have a local representative please see www.pmc-speakers.com and click on ‘distribution.’

Alternatively you can view the FAQ’s (Frequently Asked Questions) and servicing section on our website. (Click on the ‘contacts’ section and select ‘FAQ’).

**Important Note:** Please do not return any products to PMC directly without first contacting our service department.
The PMC Range

The PMC range of professional monitors currently spans 25 different models, from the enormous BB5 XBD-A flagship system down to the diminutive DB1 passive speaker. However, every monitor is designed with the same care and attention, using shared families of drive units, crossover designs and amplifiers. As a direct consequence they all enjoy the same family characteristics of wide dispersion, low distortion, consistent voicing, and an even bass response regardless of listening level. This feature allows different sizes of monitors to be used in concert to create effective multichannel systems where space is at a premium.

The twotwo series of active PMC monitors share the same core DSP signal processing, class-D amplification, and ability to operate in either portrait or landscape orientations without compromising the stereo imaging or tonality. The range currently comprises three two-way monitors with 5, 6 and 8-inch bass drivers for near and mid-field applications, plus a dedicated system subwoofer to facilitate 2.1 stereo systems or larger surround systems. An optional remote controller is also available, as is PMC’s bespoke surround-capable Monitor Control system which includes comprehensive bass management facilities.
If you do not have access to the Internet please fill in the Warranty form on pages 37 and 38, and return to PMC.
WARRANTY CERTIFICATE - PART 1

Your copy to keep

Please complete and retain this page for your own records

<table>
<thead>
<tr>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial No’s</td>
</tr>
<tr>
<td>Date of purchase</td>
</tr>
<tr>
<td>Dealer’s name</td>
</tr>
<tr>
<td>Dealer’s address</td>
</tr>
<tr>
<td>Town</td>
</tr>
<tr>
<td>County</td>
</tr>
<tr>
<td>Postcode</td>
</tr>
<tr>
<td>Dealer’s Telephone No.</td>
</tr>
</tbody>
</table>

Servicing and warranty issues – Please read the following carefully.

Non-UK clients
Contact your local dealer/distributor for the details of warranty repairs – see www.pmc-speakers.com and click on distribution for their details.

UK clients
In the unlikely event of a fault occurring with your PMC product please contact your dealer where the product was purchased.
Do not return a product to PMC without firstly contacting our technical department. If the product needs to be returned for service you will be issued with a Returns Authorisation number.
If a product is returned to PMC and subsequently is found to have no fault or a non-warranty fault there will be minimum charge of £50.00 plus the carriage for its return.
Proof of purchase is required for any claim covered by this warranty.
This product is warranted for a period of five years from the date of purchase or valid warranty registration which is either by receipt of the ‘Our Copy’ card or an on-line registration which must be made within ten days of purchase or receipt.
The warranty covers defects due to faulty materials or workmanship but does not cover defects arising from accidental damage, misuse or wear and tear. The warranty is void if any attempt has been made by persons not authorised by PMC to dismantle, repair or modify any part of the product.
Products must be returned using original packing material. This warranty does not cover damage in transit.
Note that the cost of the carriage to PMC is not covered by the warranty.
Returned products that are defective but no longer covered by warranty will be repaired or replaced at the discretion of PMC.
Please allow a minimum of 14 working days for return of warranty repairs.
This warranty does not affect your consumer rights under statutory law. This warranty certificate is only valid in the United Kingdom.

THE PROFESSIONAL MONITOR COMPANY LIMITED 43-45 Crawley Green Road Luton LU2 0AA UK T +44 (0) 870 4441044 F +44 (0) 870 4441045
### WARRANTY CERTIFICATE - PART 2

**PMC's copy**

Please complete and return this section – or simply complete the on-line registration at [www.pmc-speakers.com](http://www.pmc-speakers.com) and click on 'register product.'

<table>
<thead>
<tr>
<th>Product</th>
<th></th>
</tr>
</thead>
<tbody>
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<td>Serial No's</td>
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</tr>
<tr>
<td>Date of purchase</td>
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</tr>
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<td>Purchased from</td>
<td></td>
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<tr>
<td>Your name</td>
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<td>Your email address</td>
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<td>County</td>
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<tr>
<td>Postcode/Zip code</td>
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</tr>
</tbody>
</table>

Help us to improve our products. See over
Help us Improve. Your Comments?

We value all of our clients’ comments. Please take a moment to help us improve:

If there is one thing we should change, what would it be?

Please tell us how your new PMC remote controller performs. Your comments may appear on the customer quotes section for this product on our website – but don’t worry, the comments will be anonymous and your personal details will not be published.

Which magazines do you read?

<table>
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<tr>
<th>HiFi</th>
<th>Pro</th>
<th>Lifestyle</th>
<th>On-Line</th>
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<td>Audio Media</td>
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</table>

‘We hope you enjoy your latest purchase as much as we enjoyed designing and building them – Thank you’