



# ORBIT 11

active coaxial 3-way  
studio monitor  
PORBIT11(W)

## 1 INTRODUCTION

### 1.1 YOU MADE THE RIGHT CHOICE!

This product has been developed and manufactured to the highest quality standards to ensure many years of problem-free operation. Find further information about Palmer on our website:

<https://www.palmer-germany.com/>

### 1.2 READ THE COMPLETE DOCUMENTATION



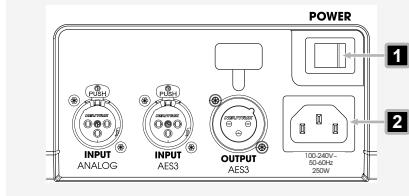
This document is an abridged version of the documentation. Follow the QR code to the complete user manual.

### 1.3 SCOPE OF DELIVERY

- Device
- Mains power cable
- Safety Compliance Information
- Quick Start Guide
- Screws and washers for wall mounting (4x M6 x 10 mm - T30)
- Eyebolt for safety fastening (M8)

## 2 POWER SUPPLY

### 2.1 POWER CONNECTION



**1** **POWER** - On / Off switch

**2** **C14 Socket** - Device power socket

### 2.2 CONNECTING A MAINS POWER CABLE

#### Mains voltage

Risk of electric shock

- a. Do not use kinked or damaged mains power cables.



#### WARNING

#### Damage to the device

- a. Make sure the mains power voltage matches the device's voltage.
- b. Use the supplied mains power cable.
- c. Do not plug or unplug the device under load.
- d. Power off the device before connecting or disconnecting the mains power cable.



#### NOTICE

**1** Plug the C13 connector of the mains power cable into the C14 socket on the device.

**2** Plug the mains connector of the mains power cable into the mains power socket.

## 2.3

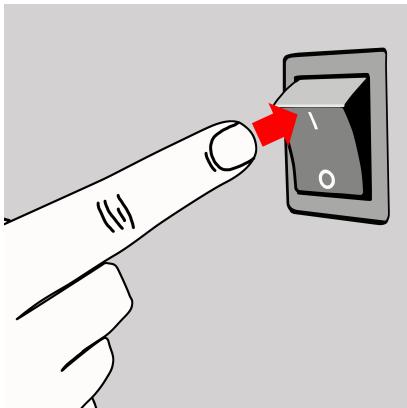
### TURNING THE DEVICE ON OR OFF

**1** Flip the switch from the  to the  position.

⇒ After a few seconds, the device is operational.

**2** Flip the switch from the  to the  position.

⇒ The device turns off.



## 3 INSTALLATION



**NOTICE**

### Damage to the device

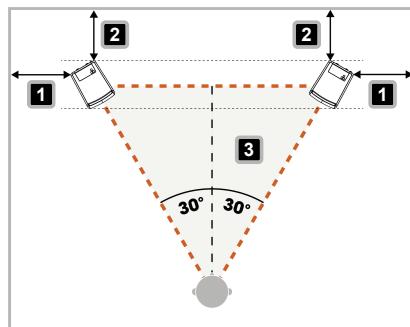
Do not touch the loudspeaker membranes when handling the device.

### 3.1

#### ABOUT POSITIONING STUDIO MONITORS

Find below basic information on the positioning of studio monitors.

- Place the studio monitors upright.
- Place the studio monitors with distances as symmetrical as possible to the walls at the sides **1** and at the rear **2**.
- Place the studio monitors so that the tweeter is approximately at the same height as your ears at the listening position.
- Place the studio monitors so that the listening position and the two studio monitors form an equilateral triangle **3**.
- **Avoid placing** the studio monitors in a corner of the room.

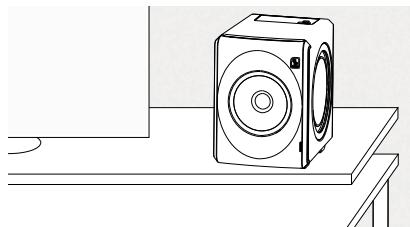


**3.2****POSITIONING USE CASES**

The **ORBIT 11** is designed to create the most neutral listening conditions possible, even in acoustically difficult environments.

*Setting the adaptation filters (¶ 8) of the **ORBIT 11** allows you to partially compensate for less favourable installation conditions.*

Find below typical use case examples.

**Positioning on a Desk Board**

Adaptation filter settings:

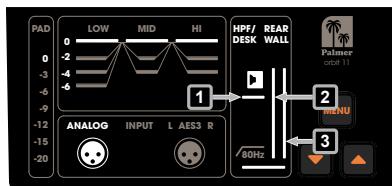
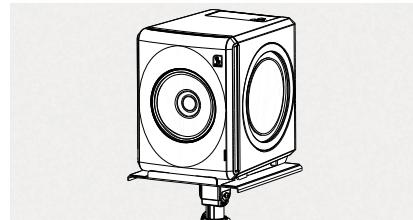
**1** **DESK:** On

**REAR WALL:**

**2** Small distance to the rear wall (0 cm ... 30 cm)

**3** Larger distance to the rear wall (31 cm ... 50 cm)

Off Distance to the rear wall > 50 cm

**Positioning on a Stand**

Adaptation filter settings:

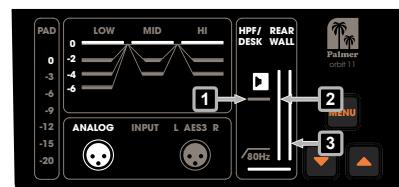
**1** **DESK:** Off

**REAR WALL:**

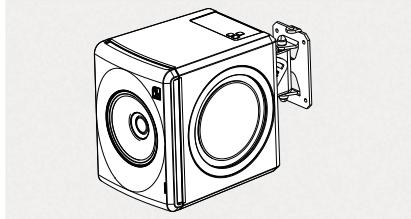
**2** Small distance to the rear wall (0 cm ... 30 cm)

**3** Larger distance to the rear wall (31 cm ... 50 cm)

Off Distance to the rear wall > 50 cm

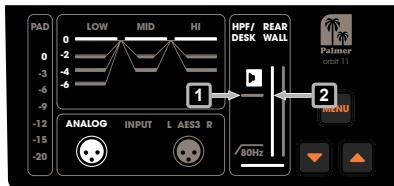


## Mounting on a Wall



Adaptation filter settings:

- 1** **DESK:** Off
- 2** **REAR WALL:** Small distance to the rear wall (0 cm ... 30 cm)

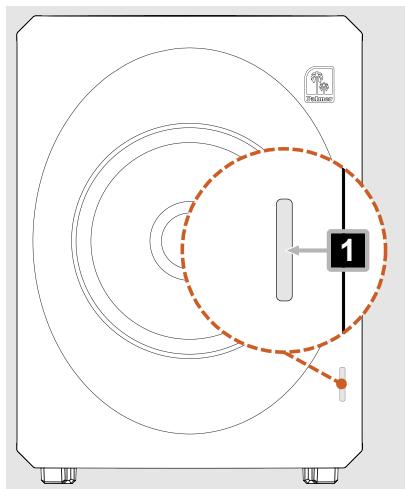


## 4 GETTING STARTED

### 4.1 FRONT LED

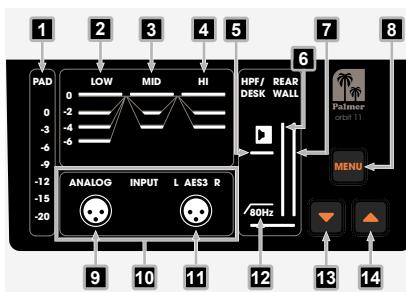
When the **ORBIT 11** is switched on, the front LED **1** can have 2 different states.

- **Power on:**  
Orange
- **Limit:**  
Red



## 4.2

## USER INTERFACE



- 1 PAD** - Indicates the input signal attenuation in dB (0, -3, -6, -9, -12, -15, -20).
- 2 Equaliser LOW** - Indicates the **LOW** band of the equaliser in dB (0, -2, -4, -6).
- 3 Equaliser MID** - Indicates the **MID** band of the equaliser in dB (0, -2, -4).
- 4 Equaliser HI** - Indicates the **HI** band of the equaliser in dB (0, -2, -4).
- 5 Adaptation Filter: DESK** - Indicates whether the **DESK** filter is active.
- 6 Adaptation Filter: REAR WALL Small Distance (0 cm ... 30 cm)** - Indicates whether the adaptation filter **REAR WALL** is set for small distances to the rear wall.
- 7 Adaptation Filter: REAR WALL Larger Distance (31 cm ... 50 cm)** - Indicates whether the adaptation filter **REAR WALL** is set for larger distances to the rear wall.
- 8 MENU** - Skips through the control panel sections (**PAD**, **LOW**, **MID**, **HI**, **HPF/DESK**, **REAR WALL**, **INPUT**). After reaching the last section, the selection jumps back to the first element.

## 9

**INPUT: ANALOG** - Indicates whether the analogue input is active.

**10 INPUT Section** - Indicates the active input (**ANALOG**, **AES3 L**, **AES3 R**, **AES3 LR**).

**11 INPUT: AES3** - Indicates whether the AES3 input is active.

**12 Adaptation Filter: HPF** - Indicates whether the highpass filter (80 Hz) is active.

**13 ▼** - Changes the value downwards in the selected section.

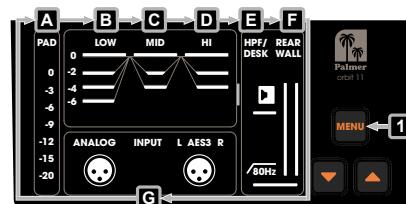
**14 ▲** - Changes the value upwards in the selected section.

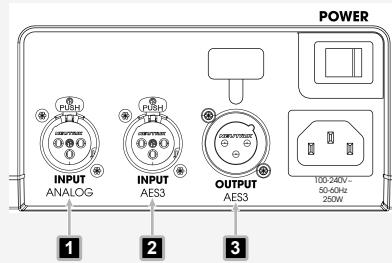
## 4.3

## USING THE MENU BUTTON

The menu sections follow a circular structure. When you have selected the last menu section **G** and press  **MENU**

**1**, you reach the first menu section **A**.



**4.4****AUDIO CONNECTIONS**

- 1** **INPUT ANALOG** - Line input socket (balanced 3-pin XLR)
- 2** **INPUT AES3** - AES3 input socket (3-pin XLR for AES3 cable)
- 3** **OUTPUT AES3** - AES3 output socket (3-pin XLR for AES3 cable)

**4.5****CONNECTING AN INPUT SOURCE TO THE ANALOG INPUT****CAUTION****High Sound Pressure Level**

Risk of hearing damage

- a. Switch off the device before connecting an input source.
- b. Make sure that the input source volume is turned all the way down before connecting it.

**NOTICE****High Sound Pressure Level**

Damage to the loudspeaker

- a. Connect line level devices, such as mixing consoles, to the line input only.

✓ 3-pin XLR cable

- 1** Turn down the input source volume.
- 2** Switch off the device.
- 3** Connect the line input source to the **ANALOG INPUT** socket.
- 4** Switch on the device.
- 5** Turn up the input source volume.

**4.6****CONNECTING AN INPUT SOURCE TO THE AES3 INPUT****High Sound Pressure Level**

Risk of hearing damage

**CAUTION**

- a. Switch off the device before connecting an input source.
- b. Make sure that the input source volume is turned all the way down before connecting it.

**NOTICE****High Sound Pressure Level**

Damage to the loudspeaker

- a. Connect AES3 devices to the AES3 input only.



The AES3 input supports sample rates up to 96 kHz.

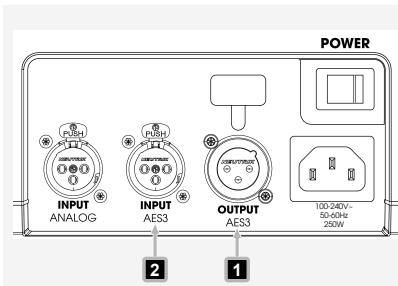
✓ 3-pin XLR cable that complies with the AES3 standard.

- 1** Turn down the input source volume.
- 2** Switch off the device.
- 3** Connect the AES3 input source to the **AES3 INPUT** socket.
- 4** Switch on the device.
- 5** Turn up the input source volume.

**4.7****CONNECTING A SECOND ORBIT 11 VIA AES3 OUTPUT**

The **AES3 OUTPUT** passes on the signal connected to the **AES3 INPUT**.

- 1 Connect the **AES3 OUTPUT** **1** to the **AES3 INPUT** **2** of a second **ORBIT 11** using a 3-pin AES3 compatible XLR cable.  
⇒ Both **ORBIT 11** receive the same digital AES3 signal.

**5 AUDIO PLAYBACK****5.1 SETTING THE INPUT SOURCE**

- 1 Press **MENU** until **INPUT** **1** lights up.

**a) Analogue input:**

Press **▼** or **▲** until **ANALOG** **2** lights up.

**b) Left channel of the AES3 input:**

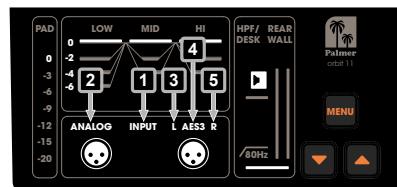
Press **▼** or **▲** until **L** **3** and **AES3** **4** light up.

**c) Right channel of the AES3 input:**

Press **▼** or **▲** until **R** **5** and **AES3** **4** light up.

**d) Both channels of the AES3 input (Mono summing):**

Press **▼** or **▲** until **L** **3**, **AES3** **4**, and **R** **5** light up.

**5.2****SETTING THE PAD**

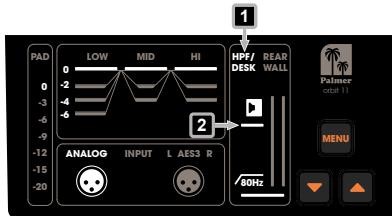
- 1 Press **MENU** until **PAD** **1** lights up.

- 2 Press **▼** to increase **2** or **▲** to decrease **3** the attenuation value.

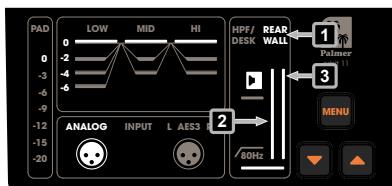


**5.3****SETTING THE ADAPTATION FILTERS****5.3.1****SETTING THE ADAPTATION FILTER DESK**

- 1 Press **MENU** until **HPF/DESK** **1** lights up.
- 2 Press **▼** or **▲** until the desk symbol line **2** lights up.

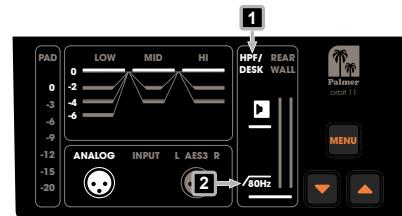
**5.3.2****SETTING THE ADAPTATION FILTER REAR WALL**

- 1 Press **MENU** until **REAR WALL** **1** lights up.
  - Activating the adaptation filter for small distances to a rear wall:**  
Press **▲** or **▼** until the left wall symbol line **2** lights up.
  - Activating the adaptation filter for larger distances to a rear wall:**  
Press **▲** or **▼** until the right wall symbol line **3** lights up.
  - Deactivating the adaptation filter:**  
Press **▲** or **▼** until both wall symbol lines do not light up.

**5.3.3****ACTIVATING THE HIGH-PASS FILTER (HPF)**

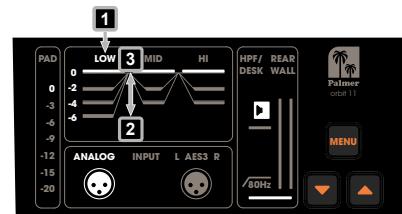
Activate the high-pass filter (HPF) as required to attenuate low-frequency room modes, minimize unwanted acoustic excitation, or when using an external subwoofer.

- 1 Press **MENU** until **HPF/DESK** **1** lights up.
- 2 Press **▼** or **▲** until the high-pass filter symbol **2** lights up.

**5.4****SETTING THE EQUALISER BANDS**

The **ORBIT 11** has three adjustable equaliser bands (**LOW**, **MID**, **HI**). Find below the instruction for the **LOW** band as an example.

- 1 Press **MENU** until **LOW** **1** lights up.
- 2 Press **▼** to increase **2** or **▲** to decrease **3** the cut for the equaliser band.



## NOTES

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