

# ASCENDO

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C8 Renaissance

USER'S MANUAL

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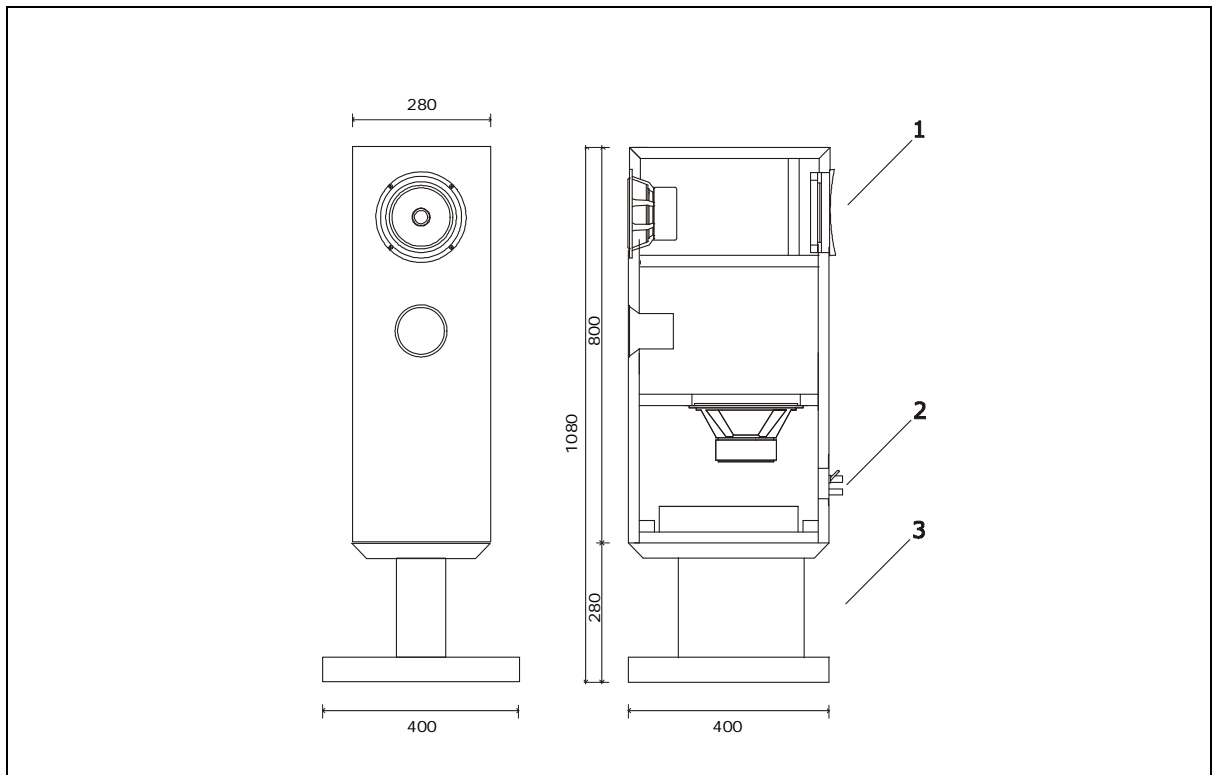
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## 1 Overview

The ASCENDO C8 Renaissance is a four-way Loudspeaker (TOS ON) constructed with ASCENDO's SASB-Technology and ASCENDO TOS-Unit.

### 1.1 Overall Picture



- 1 TOS-Unit
- 2 Terminal
- 3 Base

### 1.2 Application

The ASCENDO Loudspeaker C8 Renaissance intended for use in small to mid-size rooms (< 100 m<sup>3</sup>).

You can use the C8 Renaissance with amplifiers in the power range of 10 W to 350 W.

### 1.2 Safety Warning



#### Warning

This Loudspeaker can produce high sound-levels. This may damage your ears permanently!

## 1.4 Operating modes

You can use the C8 Renaissance a single-amp setup (one power amplifier for high- and low-frequency unit) or in a bi-amp setup (one power amplifier for the low-frequency-unit, one for the high-frequency unit).

If your setup is single-amp you must bridge the high- and low-frequency unit with a high quality speaker cable.

## 1.5 Technical Data

Principle	Three-Way with SASB bass unit (TOS Off) (current damped outer driver with semi symmetrical band pass) Four-Way with SASB bass unit (TOS ON)
Dimensions (W/H/D)	28 / 80 / 40 cm (without base)
Weight	35 Kg
Frequency Range	29 Hz (-3 dB) – 32.000 Hz
Power	350 W Program (min.)
Impedance	6 Ohm
Sensitivity	88 db / 1W/m
Outer Chassis (Coax)	COAX • 25 mm Neodymium-fabric-tweeter • 17 cm Woofer with XP cone
Inner Chassis	21 cm Chassis, Kevlar cone
TOS Chassis	Ribbon-tweeter
TOS function	switch able An: TOS Unit / Dipole On Aus: TOS Unit / Dipole Off
Sockets	Bi-Wiring

Technical data may change without notice

### C8 Renaissance Base

Dimensions (W/H/D)	40 / 30,5 / 40cm
Weight	14 Kg

Technical data may change without notice

## 2. Installation

### 2.1 Demands of speaker location

- Use the C8 Renaissance in closed rooms only. Do not expose the speaker to high humidity, direct water and direct sunbeam.
- Take care of a minimum distance of 2 m of the speaker to monitors (TV, computer) and magnetic devices (audio/video-cassettes, floppy-disks, etc.).

**WARNING**

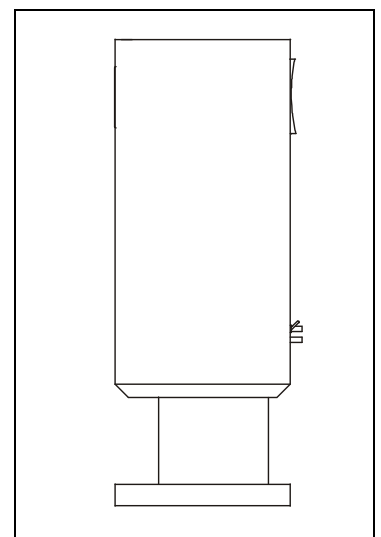
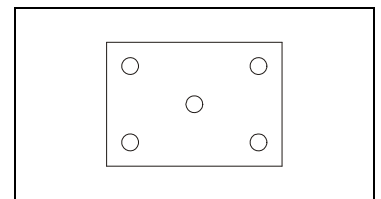
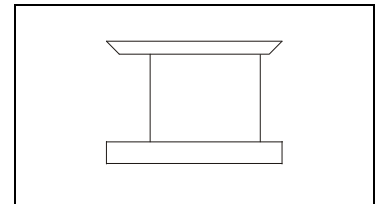
There may be a slight permanent imprint in soft floor-material.

### 2.2 Mounting

**WARNING**

Don't try to mount the System C8 Renaissance alone. The weight is too much for a single person. You need at least two persons to build up the system.

1. Place the base(3) carefully at the desired place.
2. Adjust the base (3) for your specific hearing position.
4. Put the supplied rubber dampers into the provided deepenings of the speaker base.
5. Place the C8 Renaissance on top of the base.
6. Connect the units with your power amplifier(s). See section 4.



### 3. Transport

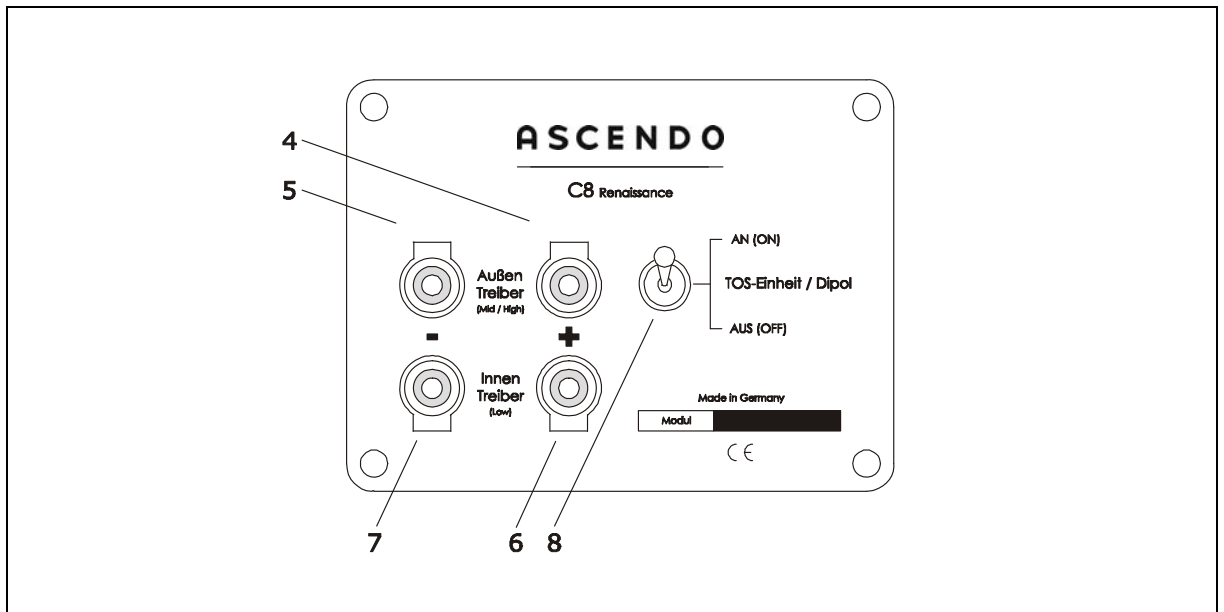


#### Warning

Don't try to move the C8 Renaissance alone. The weight is too much for a single person. You need at least two persons to build up the system.

1. Switch off the power amplifiers and disconnect all cables of the C8 Renaissance.
2. Pull off C8 Renaissance from the base (3). Take care not to touch the diaphragm of the coax-chassis.
3. Place the base (3) at its new position.

### 4. Connection



4	Plus	Outer Chas (Coax)	Mid / High
5	Minus	Outer Chassis (Coax)	Mid / High
6	Plus	Inner Chassis	Low
7	Minus	Inner Chassis	Low
8	Switch	TOS Unit / Dipole On - Off	

The high- and low-frequency unit can be connected as follows:

- **single-wired:** one cable-pair from power-amp to low-frequency unit, one cable-pair from low-frequency unit to high-frequency unit.
- **bi-wired:** one cable-pair from power amp to low-frequency unit, one from the power amp to high-frequency unit. This is recommended by ASCENDO.
- **bi-amped:** one cable-pair from separate amps for low- and high-frequency unit.

Take care of connecting always the plus (red) terminal of your power amp with the plus (4 + 6 / red) terminal of the speaker.

## 5. TOS-Unit

The conception of C8 RENAISSANCE utilizes a switch-able backfiring TOS-Unit. This Unit optimizes spectral inhomogeneous decay times.

The system offers two complementary modes of operation:

Switch (8) in position **AN** (Dipole)

- 4-way dipole diversity with TOS - Unit

Switch (8) in position **AUS** (Hemisphere)

- One-Point-Source with homogenous hemisphere diversity

## 6. Cleaning

Clean the enclosure and stand of the ASCENDO C8 RENAISSANCE with a dry and soft cloth. Don't use water or other chemicals. Don't touch the tweeter and the woofer.