



CS Series

User Guide

• CS6 • CS8 • CS12



The Future of Sound. Made Perfectly Clear.

At KV2 Audio our vision is to constantly develop technologies that eliminate distortion and loss of information providing a true dynamic representation of the source.

Our aim is to create audio products that absorb you, place you within the performance and deliver a listening experience beyond expectations.

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Important Safety Instructions

Before using your CS6, CS8, CS12 be sure to carefully read the applicable items of these operating instructions and the safety suggestions.

1. Read all product instructions.
2. Keep printed instructions, do not throw away.
3. Respect and review all warnings.
4. Follow all instructions.
5. Clean only with dry cloth.
6. Install in accordance with KV2 Audio's recommended installation instructions.
7. Only use accessories specified by KV2 Audio.
8. Install the product only with rigging specified by KV2 Audio, or sold with the loudspeaker.
9. An experienced user shall always supervise this professional audio equipment.

CS 6

8 Ohms / 175 Watts

CS6 - part number KVV 987 434



Application

Purpose designed as a discreet portable passive loudspeaker for speech for Rental and Production companies

- Corporate presentations and functions
- Full range performance with addition of subwoofers
- Infills
- Close monitoring
- Fixed installations

Introduction

The CS6 is a very high quality 2 way passive speaker, presented conservatively in a low profile unique angled painted baltic birch enclosure.

Designed to present exceptional speech clarity, the CS6 can be applied quickly and flexibly on podiums, stands and suspended as well as in fixed installations using the comprehensive range of ancillary attachments and brackets.

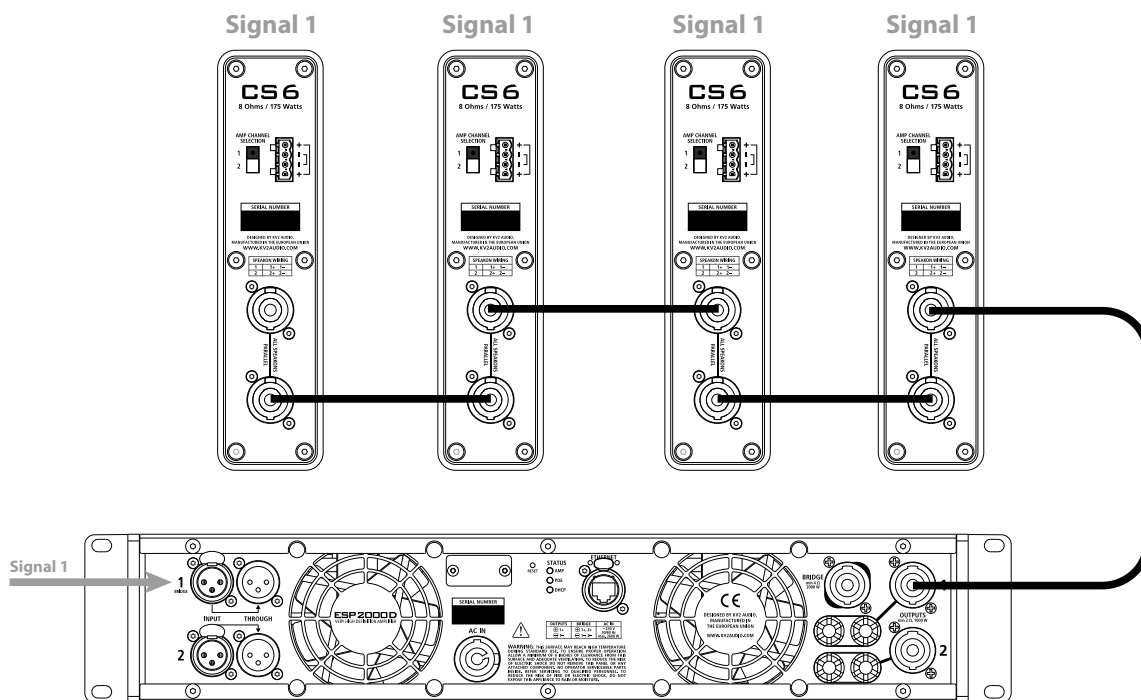
Features

- Professional Baltic birch construction with unique angles for flexible use
- Extremely hard-wearing textured plastic paint
- Compact enclosure allows discreet placement and application
- Wide dispersion 90 H x 90 V Horn
- KV2 Audio SLA technology passive crossover inc. thermal breaker protection
- 1" / 1.3" Titanium diaphragm compression driver
- 6" Neodymium low mid woofer
- Fixing points for comprehensive attachments

Standard Connection

Parallel connection of the CS6 (8Ω) - Total impedance 2Ω.

2 wire or 4 wire cable may be used, the AMP CHANNEL SELECTION switch does not apply.

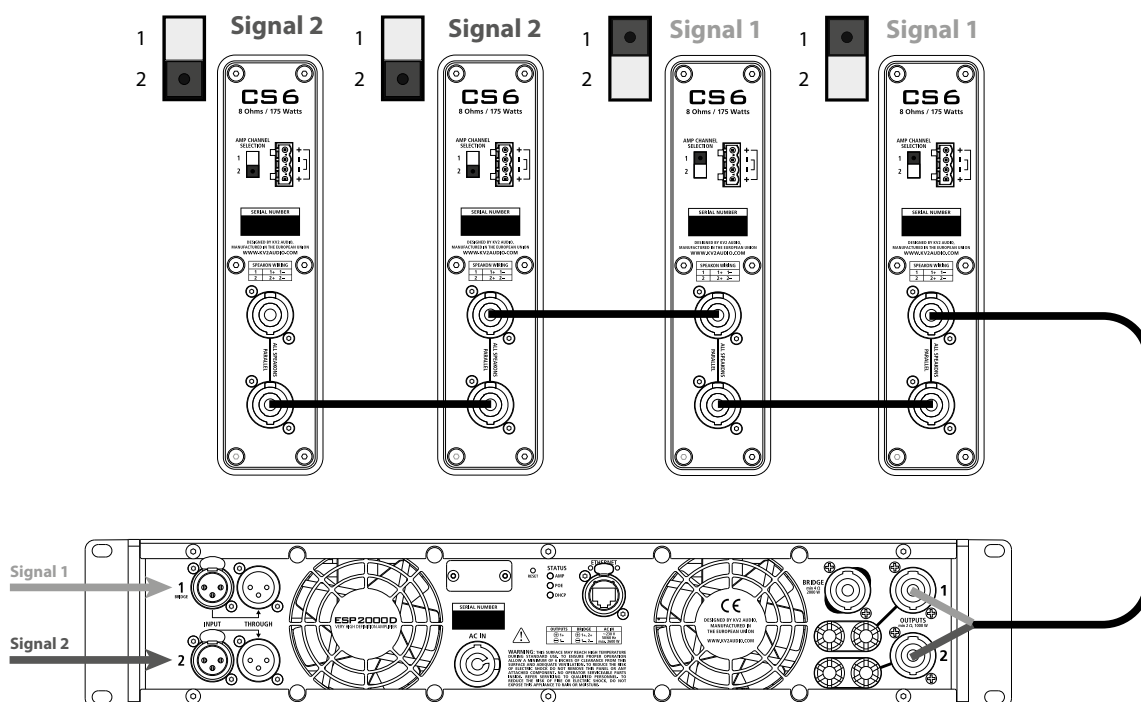


2 Channel Connection

Channel connection using single 4 wire cable (2 Channel Adapter Cable may be used - KVV 987 450).

Total impedance 4 Ω per channel. Channel switch for selecting Signal 1 or Signal 2.

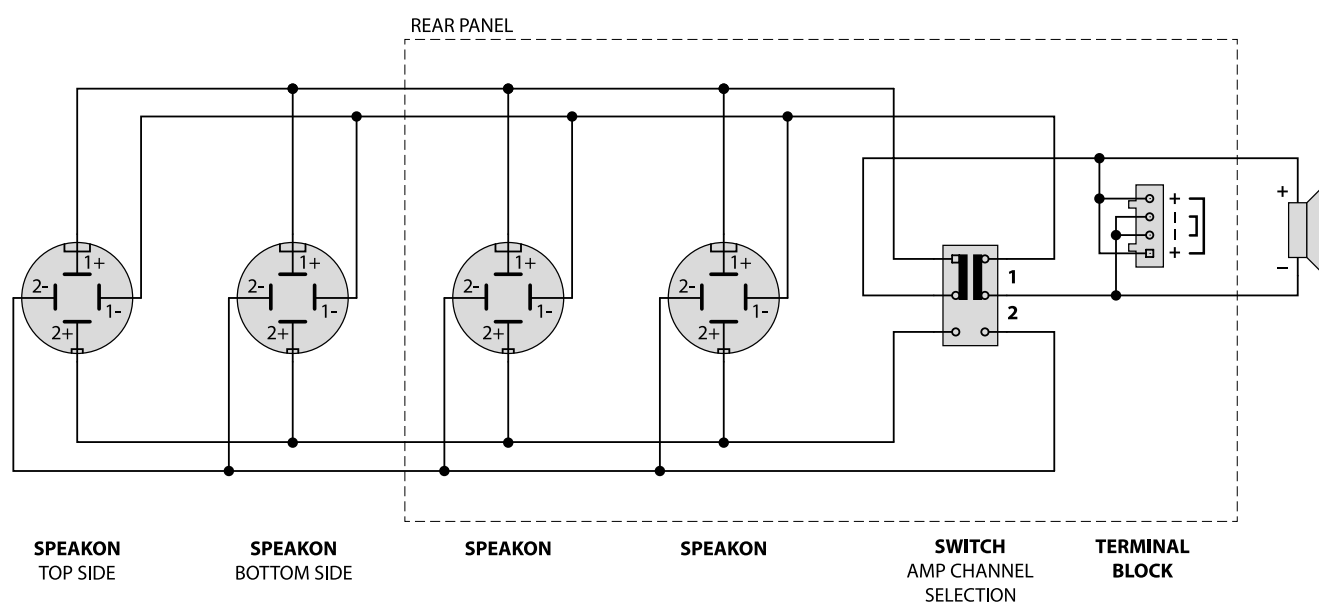
Note: It should **NOT** be switched during passing of signal as this could potentially cause damage to the switch or amplifier).



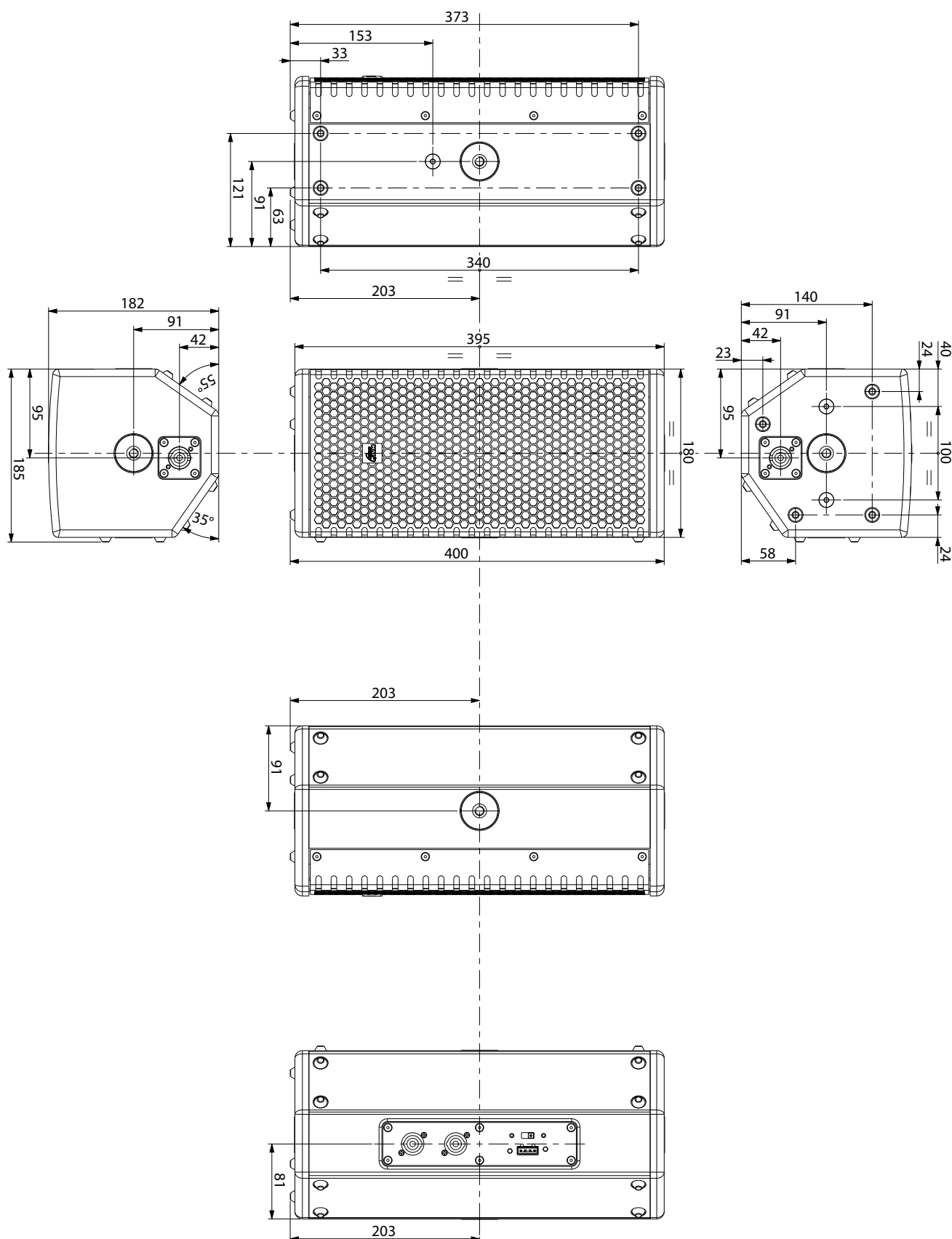
Wiring

All CS6 SPEAKON connectors are wired in parallel and the desired amplifier channel is selected using AMP CHANNEL SELECTION switch.

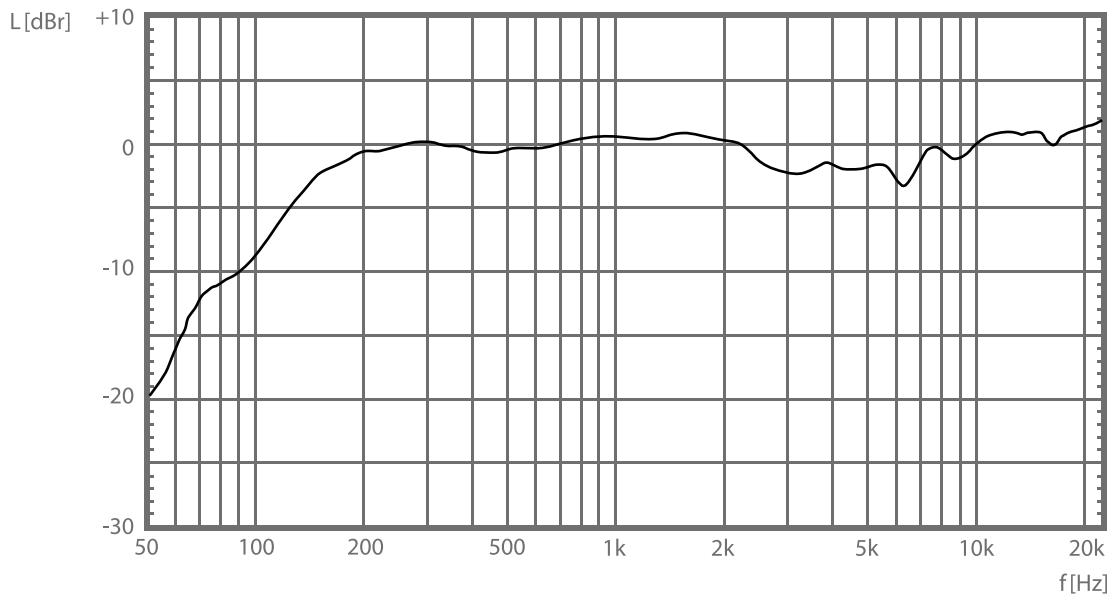
Terminal block (4 pins, 5.0mm pitch) is wired directly to the speaker, the AMP CHANNEL SELECTION switch does not apply.



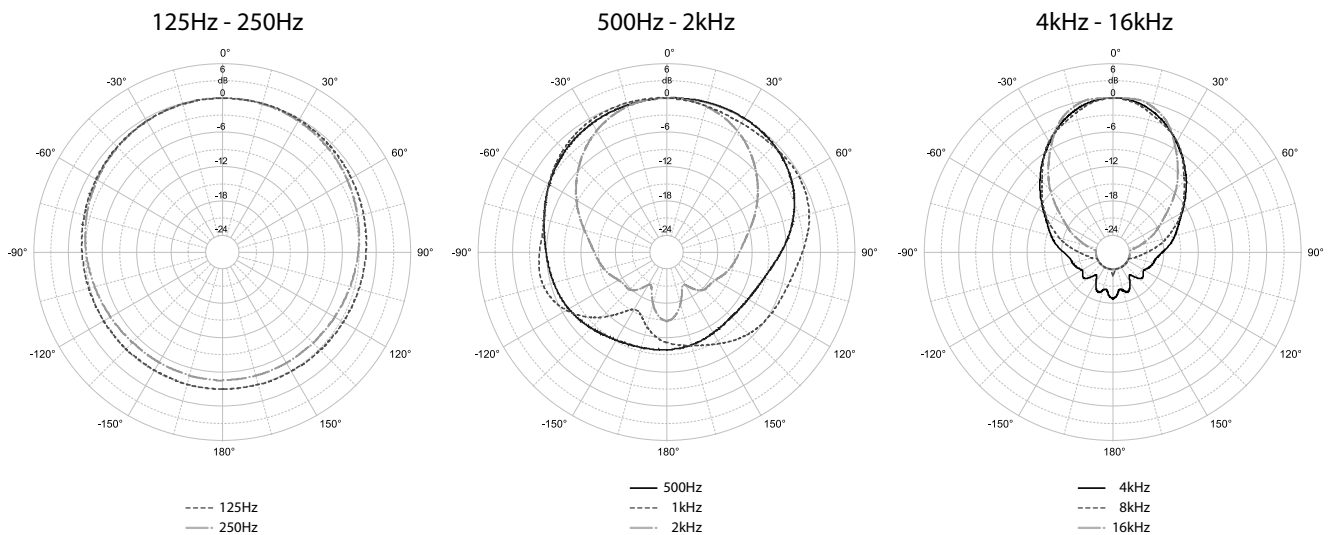
Drawing



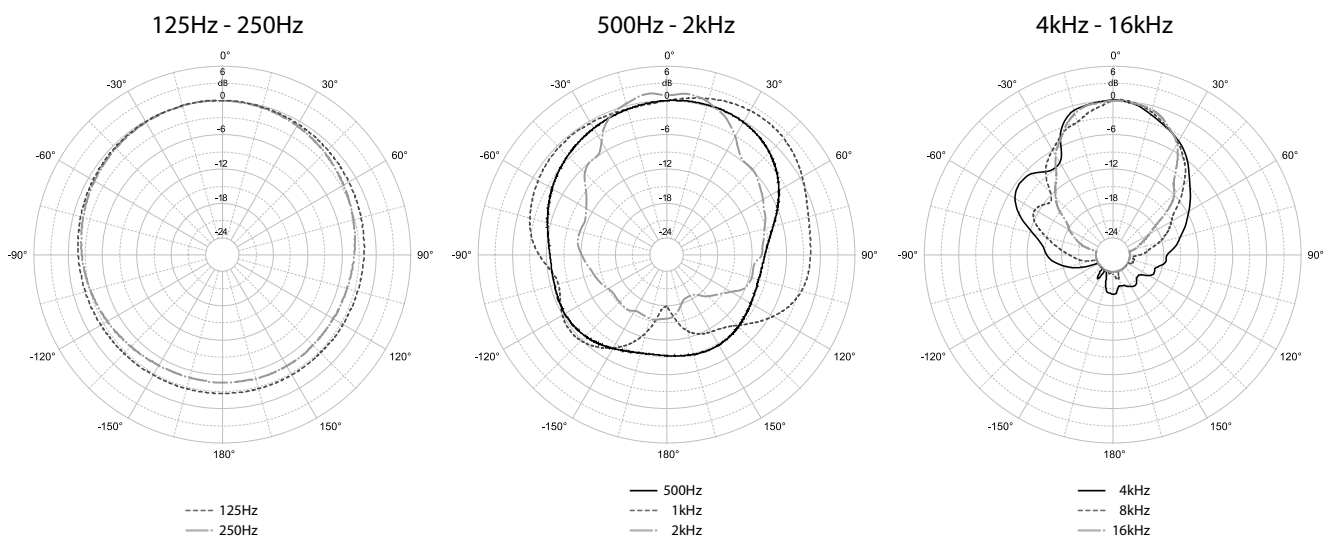
Frequency response



Horizontal Polarplots



Vertical Polarplots



Specifications

System Acoustic Performance

| | |
|-------------------|----------------|
| Max SPL Long-term | 118dB |
| Max SPL Peak | 124dB |
| -3dB Response | 145Hz to 20kHz |
| -10dB Response | 90Hz to 28kHz |
| Recommended Power | 175W |
| Sensitivity | 93dB |
| Impedance | 8 Ω |
| Crossover Point | 4,2kHz |

High Frequency Section

| | |
|--|------------------------------|
| Acoustic Design | Horn loaded |
| High Horn Coverage Horizontal / Vertical | 90° x 90° |
| Rotatable Horn | symetric |
| Throat Exit Diameter / Diaphragm Size | 1"/1,3" |
| Diaphragm Material | Titanium |
| Magnet Type | Ferrite |
| Protection | Thermal breaker - auto reset |

Low Frequency Section

| | |
|-----------------------------------|-----------------------------|
| Acoustic Design | Closed box |
| Number of Drivers | 1 |
| Woofer Size / Voice Coil Diameter | 6" / 1.75" |
| Magnet Type | Neodymium |
| Diaphragm Material | Epoxy reinforced cellulose |
| Protection | Thermal breaker - autoreset |

Speaker Input

| | |
|---------------|------------------------------------|
| Speaker Input | 4x Neutrik Speakon, Terminal block |
|---------------|------------------------------------|

Cabinet

| | |
|------------------|---------------|
| Cabinet Material | Baltic birch |
| Color | Plastic paint |

Physical Dimensions

| | |
|--------|-------------------|
| Height | 400mm (15.75") |
| Width | 185mm (7.28") |
| Depth | 182mm (7.17") |
| Weight | 8,3 kg (18.26lbs) |

CS8

FULL RANGE

8 Ohms / 275 Watts

CS8 - part number KVV 987 425



Application

Purpose designed as a discreet portable passive loudspeaker for speech and music content for Rental and Production companies

- Corporate presentations and functions
- Full range performance with addition of subwoofers
- Infills
- Close monitoring
- Fixed installations

Introduction

The CS8 is a very high quality 2 way passive speaker, presented conservatively in a low profile unique angled painted Baltic birch enclosure.

Designed to present exceptional speech and music clarity, the CS8 can be applied quickly and flexibly on podiums, stands and suspended as well as in fixed installations using the comprehensive range of ancillary attachments and brackets.

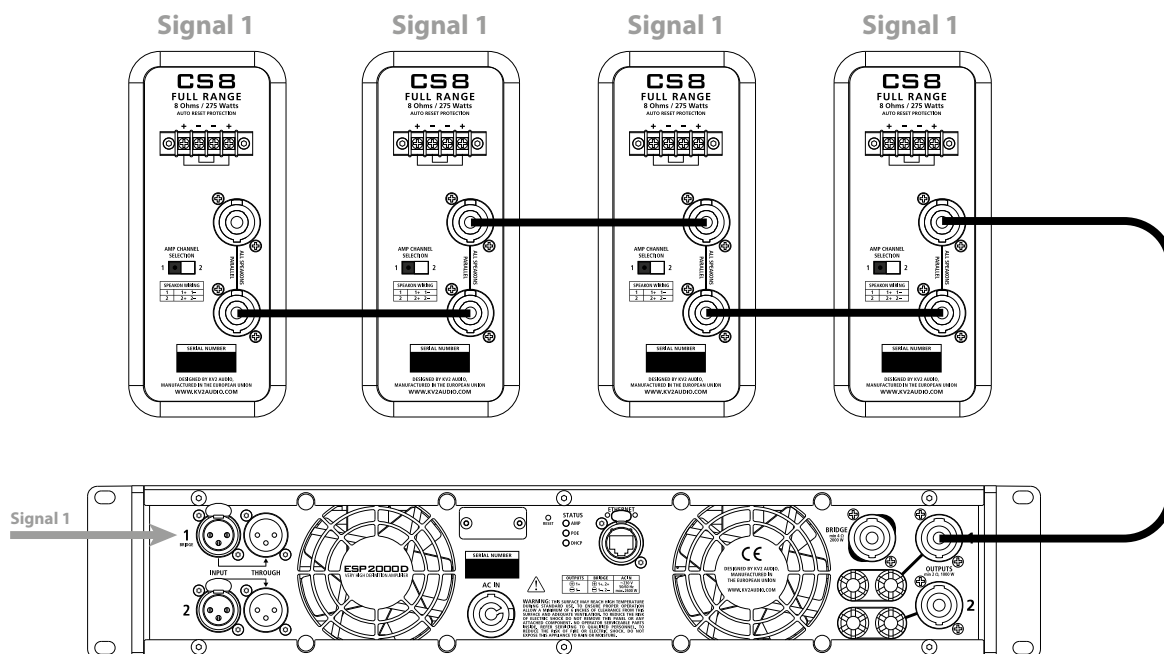
Features

- Professional Baltic birch construction with unique angles for flexible use
- Extremely hard-wearing textured plastic paint
- Compact enclosure allows discreet placement and application
- Wide dispersion 100 H x 100 V Horn
- KV2 Audio SLA technology passive crossover inc. thermal breaker protection
- 1" / 1.75" Titanium diaphragm compression driver
- 8" Neodymium low mid woofer
- Fixing points for comprehensive attachments

Standard Connection

Parallel connection of the CS8 (8Ω) - Total impedance 2Ω.

2 wire or 4 wire cable may be used, the AMP CHANNEL SELECTION switch does not apply.

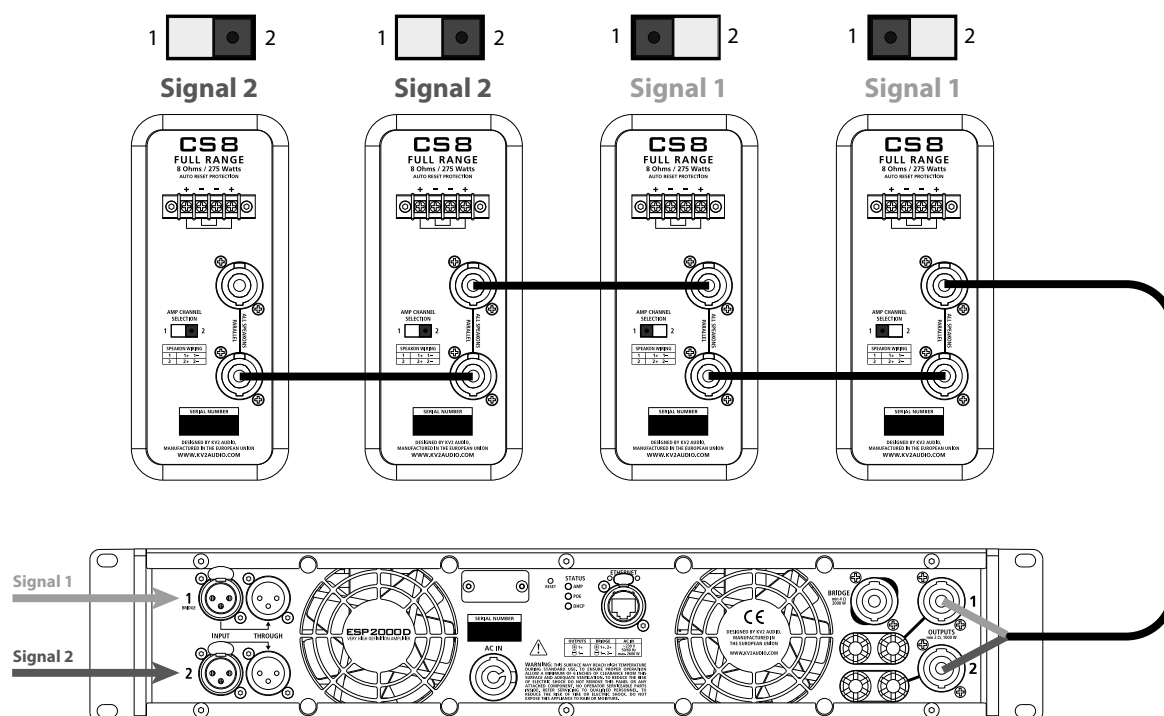


2 Channel Connection

Channel connection using single 4 wire cable (2 Channel Adapter Cable may be used- KVV 987 450).

Total impedance 4 Ω per channel. Channel switch for selecting Signal 1 or Signal 2.

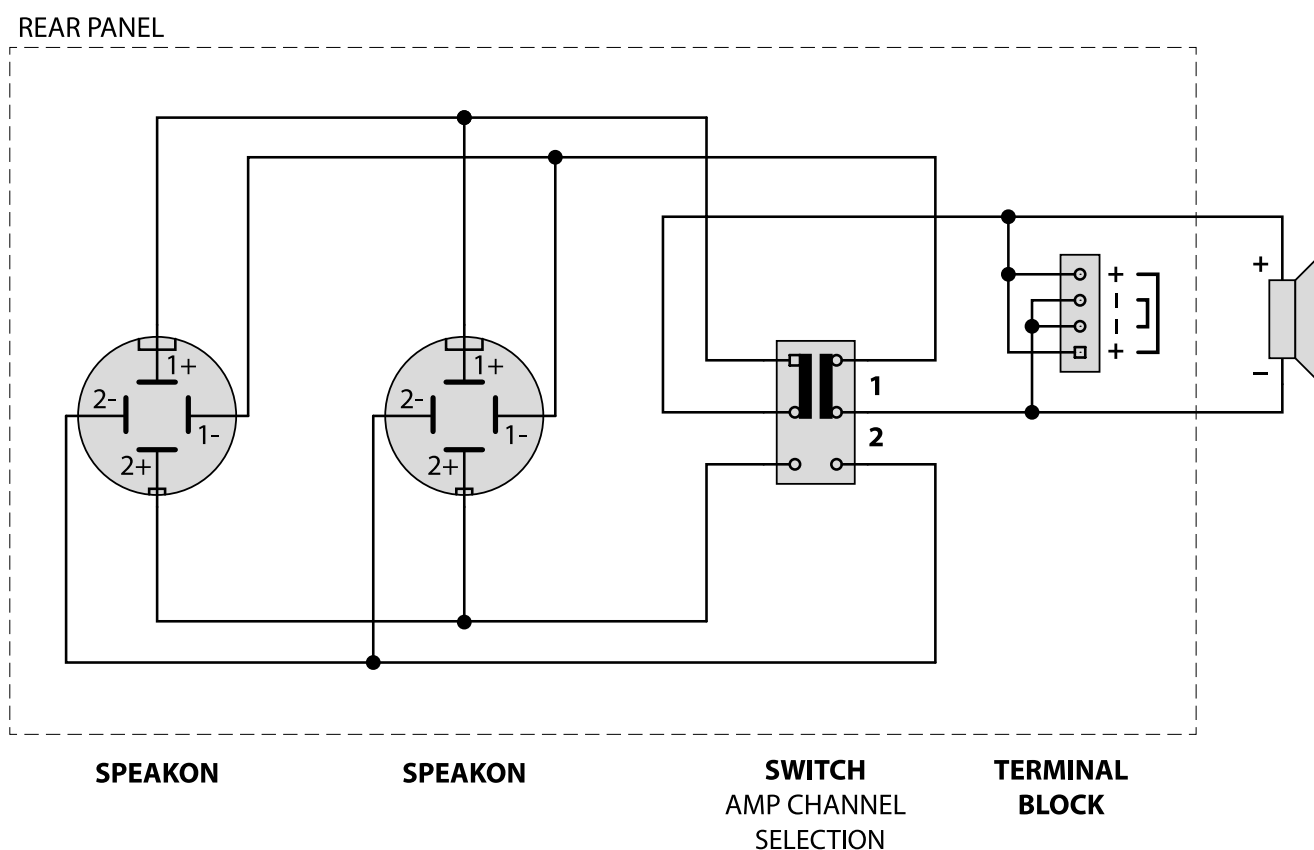
Note: It should **NOT** be switched during passing of signal as this could potentially cause damage to the switch or amplifier).



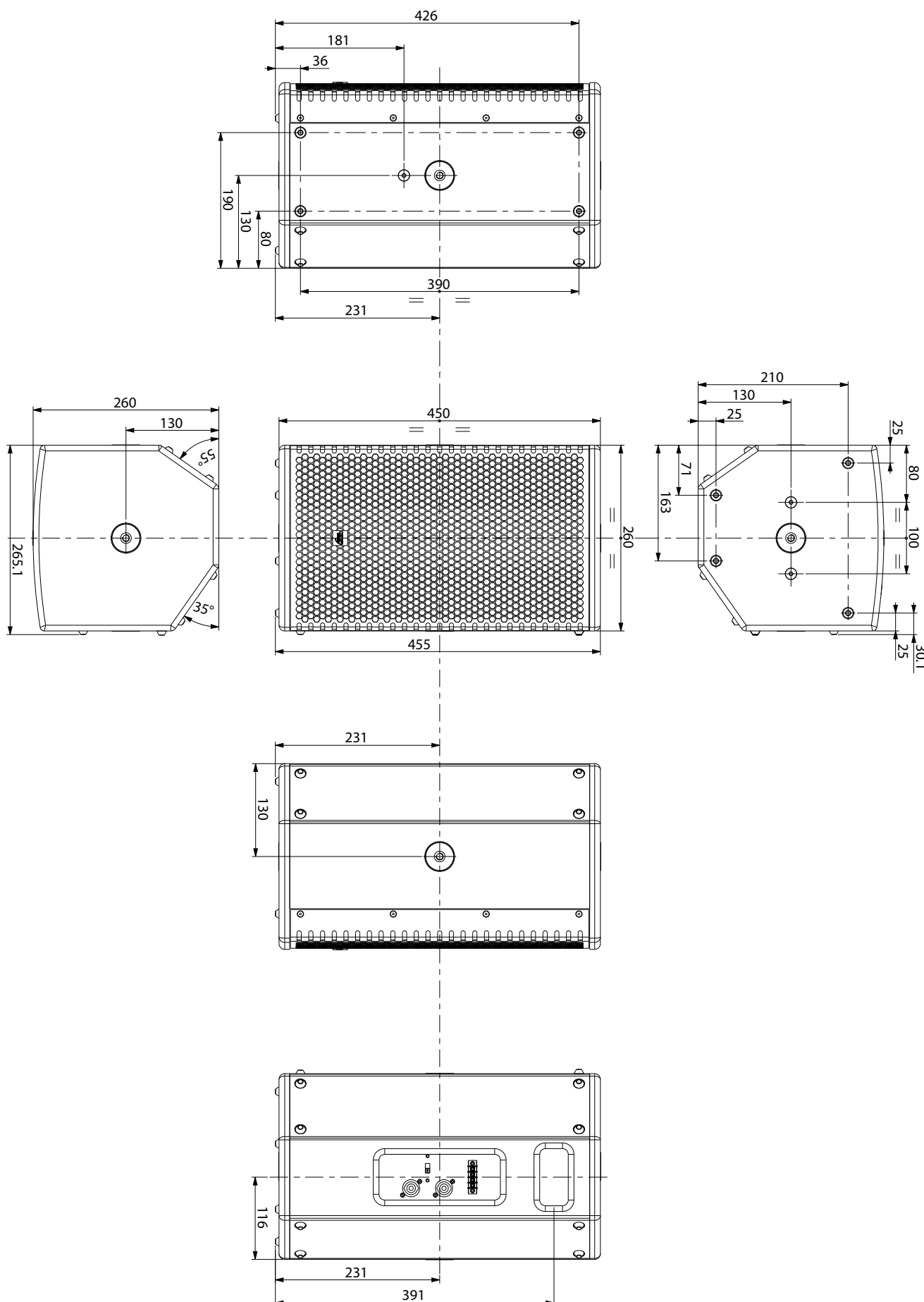
Wiring

All CS8 SPEAKON connectors are wired in parallel and the desired amplifier channel is selected using AMP CHANNEL SELECTION switch.

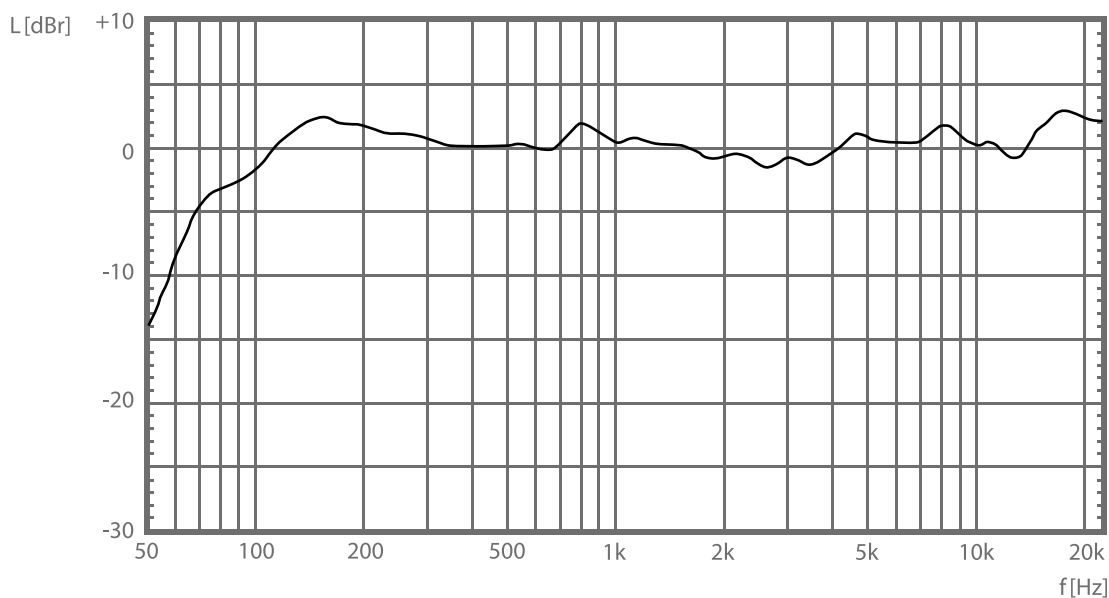
Terminal block (4 pins, 5.0mm pitch) is wired directly to the speaker, the AMP CHANNEL SELECTION switch does not apply.



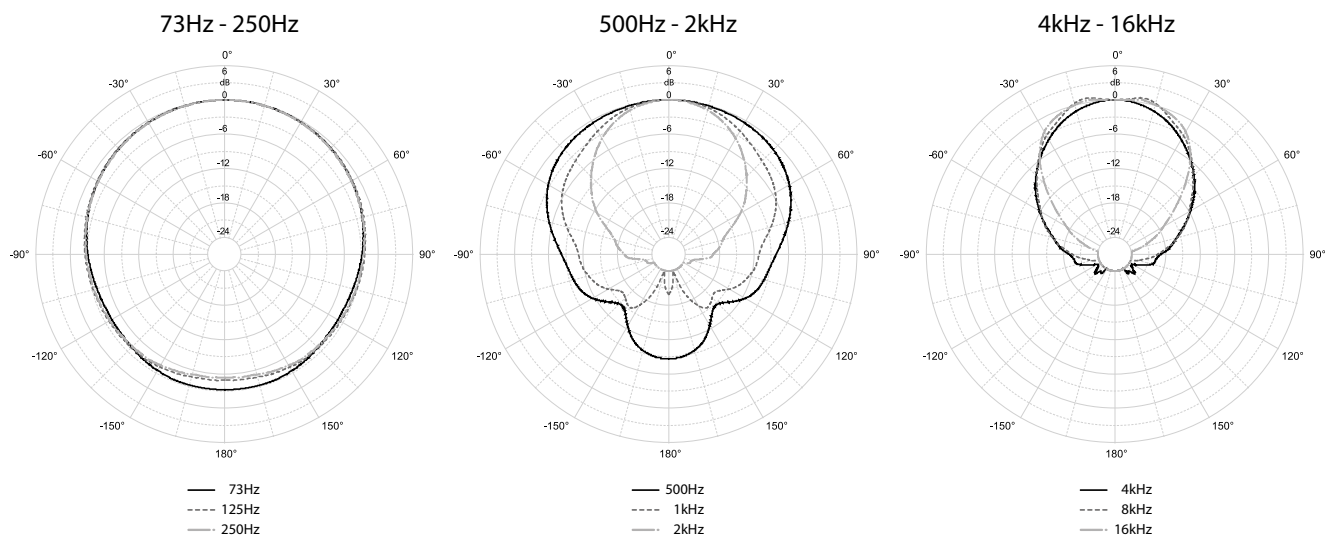
Drawing



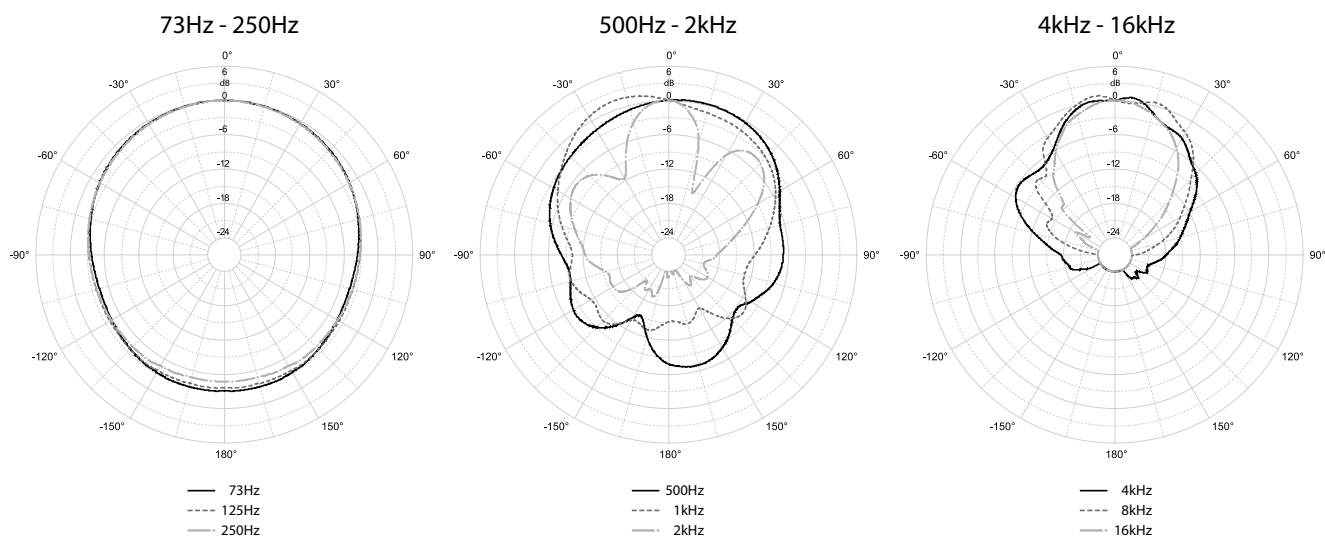
Frequency response



Horizontal Polarplots



Vertical Polarplots



Specifications

System Acoustic Performance

| | |
|-------------------|---------------|
| Max SPL Long-term | 120dB |
| Max SPL Peak | 126dB |
| -3dB Response | 80Hz to 20kHz |
| -10dB Response | 62Hz to 28kHz |
| Recommended Power | 275W |
| Sensitivity | 94dB |
| Impedance | 8 Ω |
| Crossover Point | 2,2kHz |

High Frequency Section

| | |
|--|-------------|
| Acoustic Design | Horn loaded |
| High Horn Coverage Horizontal / Vertical | 100° x 100° |
| Rotatable Horn | Symetric |
| Throat Exit Diameter / Diaphragm Size | 1"/1,75" |
| Diaphragm Material | Titanium |
| Magnet Type | Neodymium |
| Protection | RMS Limiter |

Low Frequency Section

| | |
|--|------------------------------|
| Acoustic Design | Front loaded bass reflex |
| Number of Drivers | 1 |
| Woofer Size / Voice Coil Diameter / Design | 8"/ 2"/ Trans coil |
| Magnet Type | Neodymium |
| Diaphragm Material | Epoxy reinforced cellulose |
| Protection | Thermal breaker - auto reset |

Speaker Input

| | |
|---------------|-------------------------------------|
| Speaker Input | 2x Neutrik Speakon®, Terminal Block |
|---------------|-------------------------------------|

Cabinet

| | |
|------------------|---------------|
| Cabinet Material | Baltic birch |
| Handles | 2 |
| Color | Plastic paint |

Physical Dimensions

| | |
|--------|-----------------|
| Height | 455mm (17.91") |
| Width | 265mm (10.43") |
| Depth | 260mm (10.24") |
| Weight | 13 kg (28.6lbs) |

CS12

FULL RANGE

4 Ohms / 500 Watts

CS12 - part number KVV 987 426



Application

Purpose designed as a discreet portable passive loudspeaker for speech and full range music performance for Rental and Production companies

- Corporate presentations and functions
- Stand-alone full range performance or with addition of subwoofers
- Infills
- Monitoring
- Fixed installations

Introduction

The CS12 is a very high quality 2 way full range passive speaker, presented conservatively in a low profile unique angled painted Baltic birch enclosure.

Designed to present exceptional speech and music clarity, the CS12 can be applied quickly and flexibly on podiums, stands and suspended as well as in fixed installations using the comprehensive range of ancillary attachments and brackets.

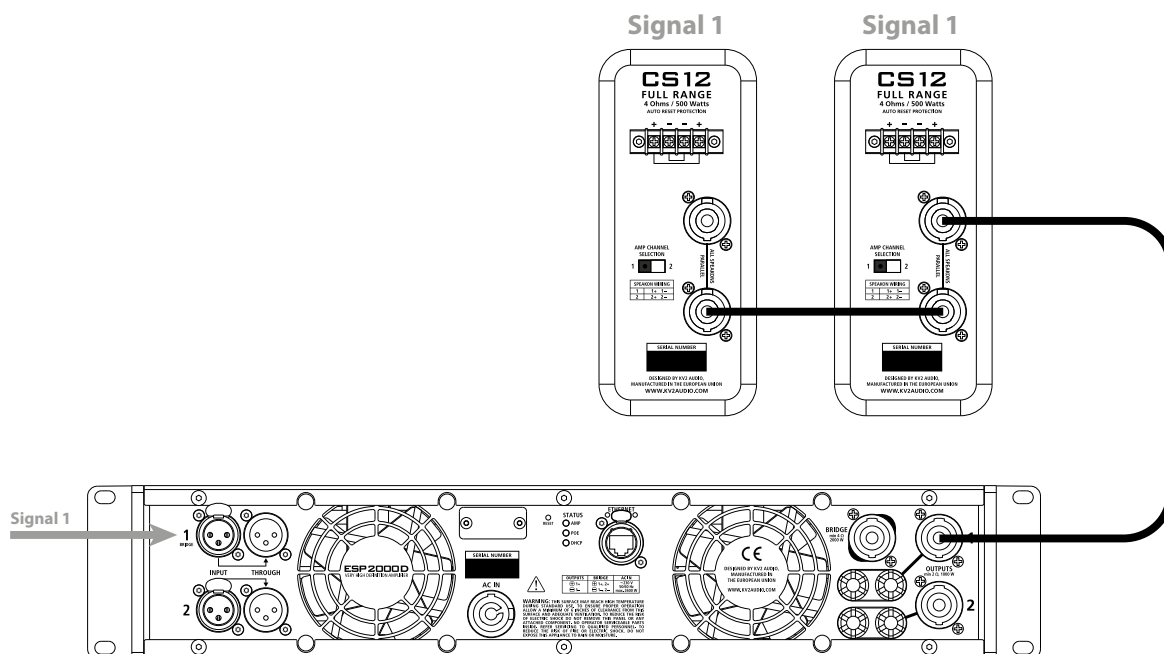
Features

- Professional Baltic birch construction with unique angles for flexible use
- Extremely hard-wearing textured plastic paint
- Compact enclosure allows discreet placement and application
- Wide dispersion 80 H x 40 V Horn
- KV2 Audio SLA technology passive crossover inc. thermal breaker protection
- 1.4" / 3" Titanium diaphragm compression driver
- 12" Neodymium low mid woofer
- Fixing points for comprehensive attachments

Standard Connection

Parallel connection of the CS12 (4Ω) - Total impedance 2Ω.

2 wire or 4 wire cable may be used, the AMP CHANNEL SELECTION switch does not apply.

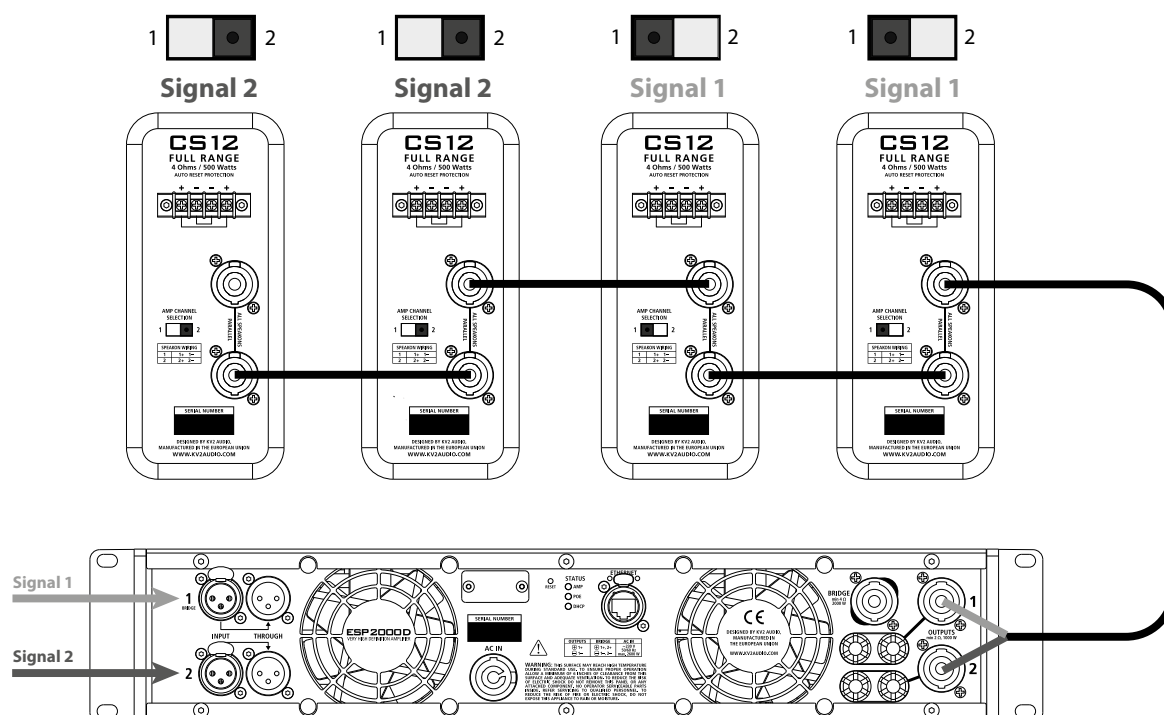


2 Channel Connection

Channel connection using single 4 wire cable (2 Channel Adapter Cable may be used - KVV 987 450).

Total impedance 2 Ω per channel. Channel switch for selecting Signal 1 or Signal 2.

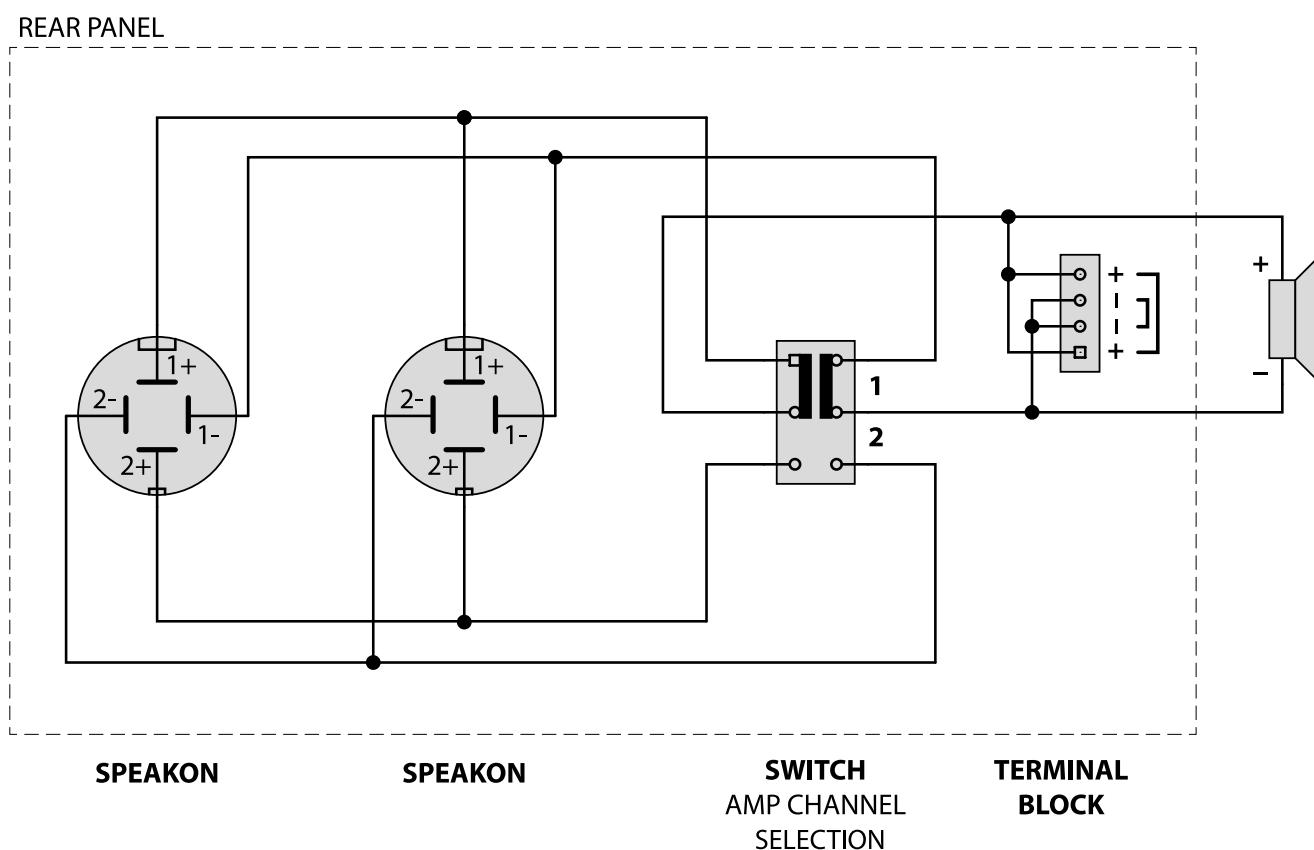
Note: It should **NOT** be switched during passing of signal as this could potentially cause damage to the switch or amplifier).



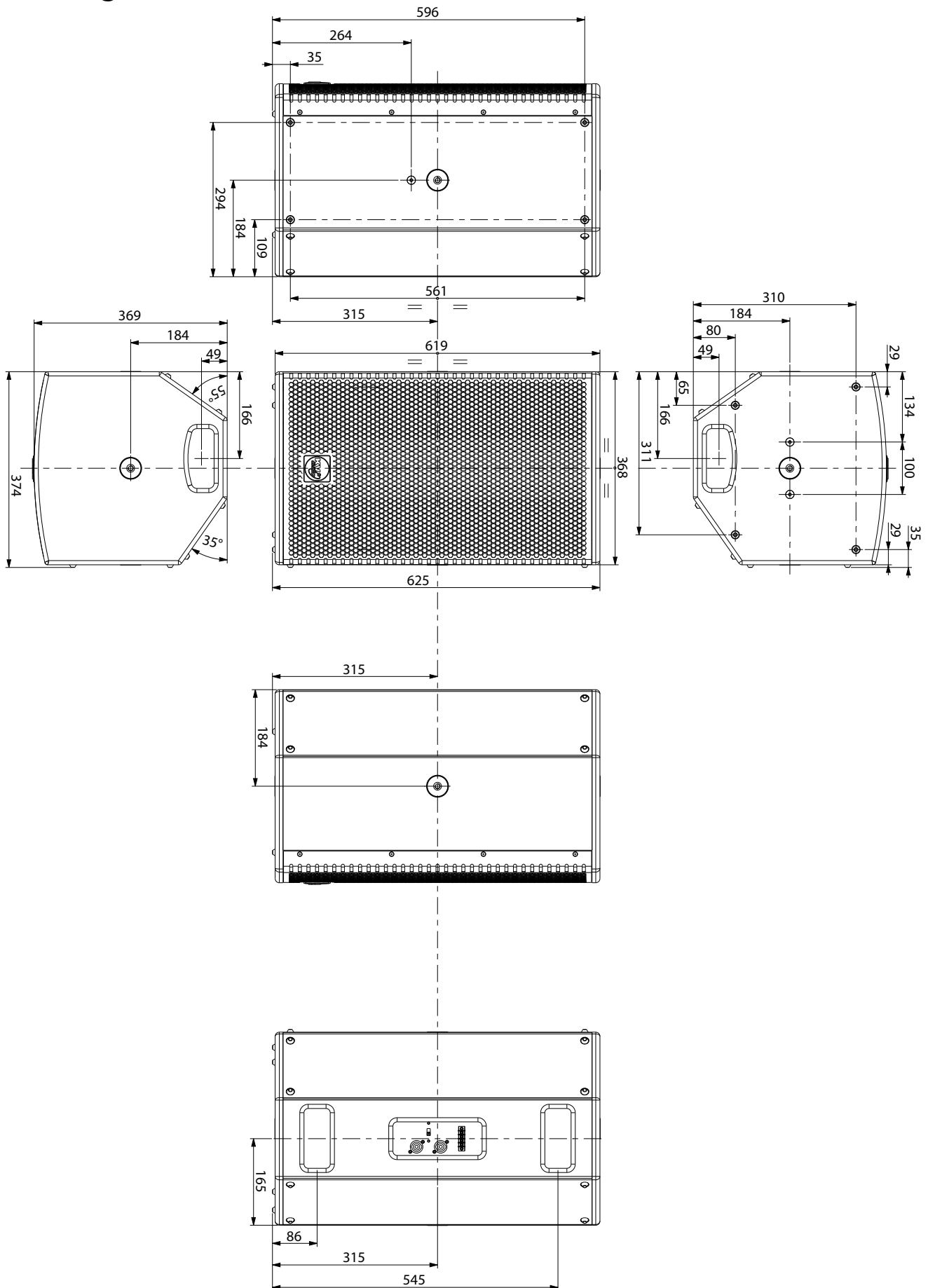
Wiring

All CS12 SPEAKON connectors are wired in parallel and the desired amplifier channel is selected using AMP CHANNEL SELECTION switch.

Terminal block (4 pins, 5.0mm pitch) is wired directly to the speaker, the AMP CHANNEL SELECTION switch does not apply.

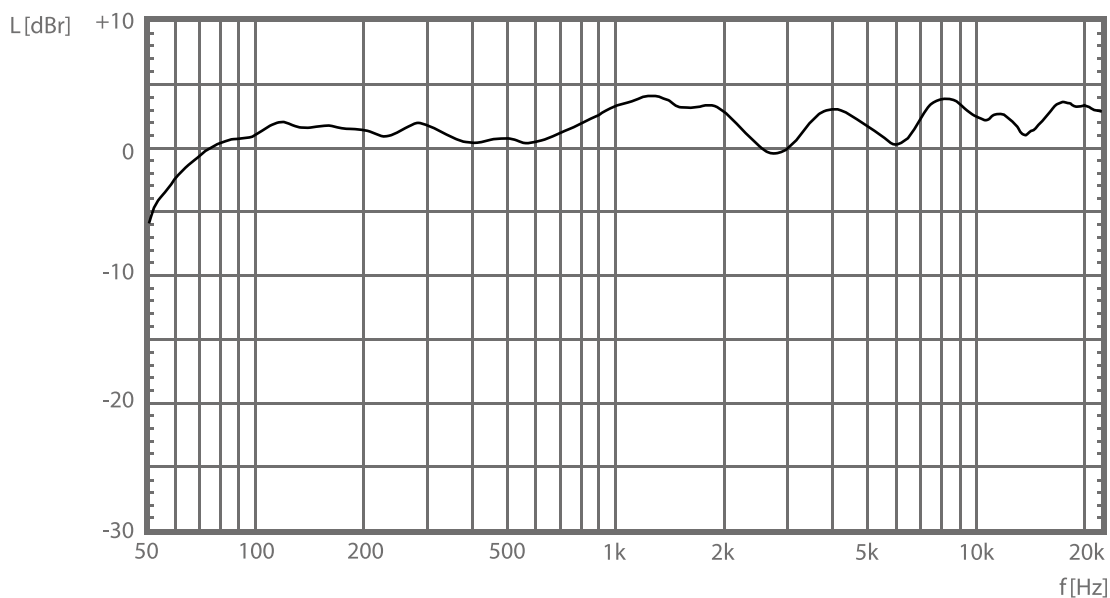


Drawing

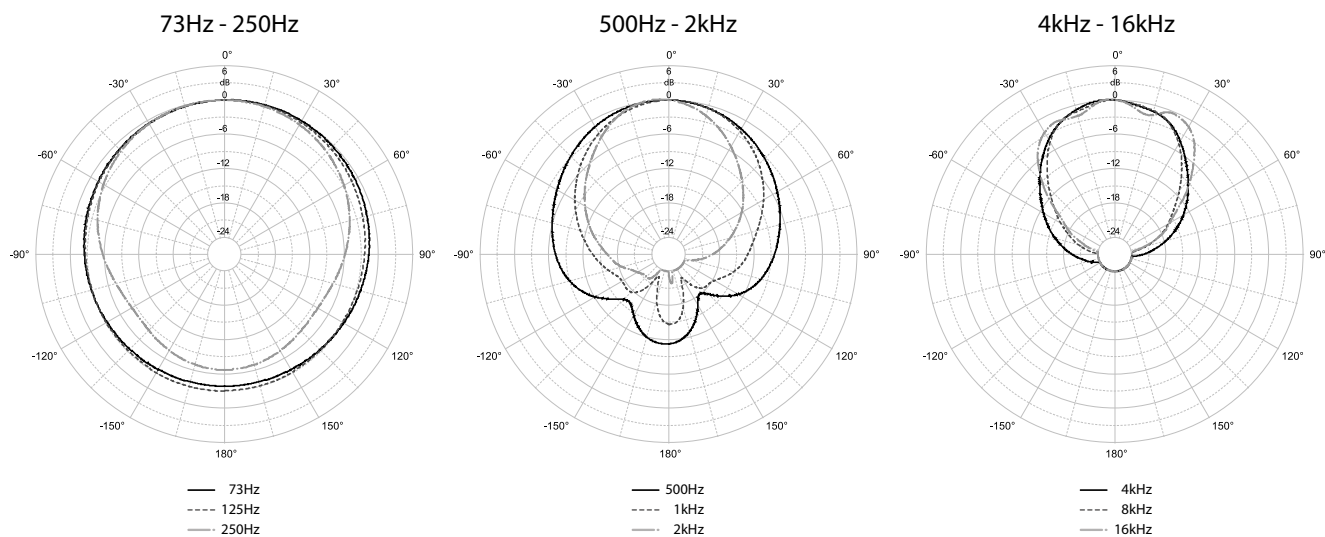


CS12 · Frequency characteristics

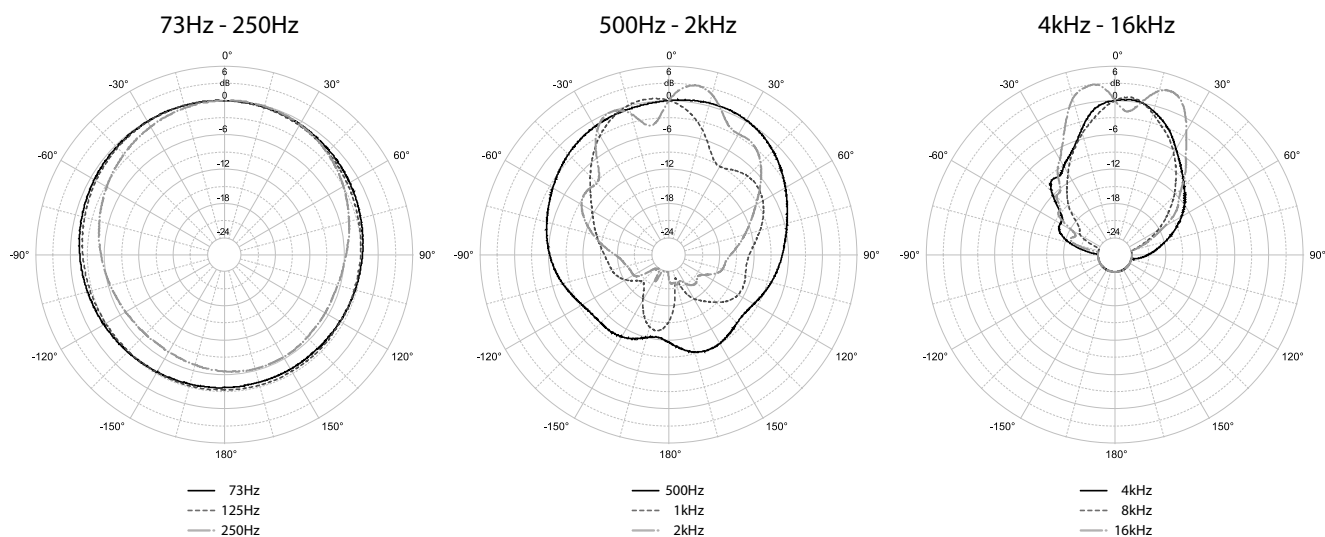
Frequency response



Horizontal Polarplots



Vertical Polarplots



Specifications

System Acoustic Performance

| | |
|-------------------|---------------|
| Max SPL Long-term | 127dB |
| Max SPL Peak | 133dB |
| -3dB Response | 55Hz to 22kHz |
| -10dB Response | 50Hz to 30kHz |
| Recommended Power | 500W |
| Sensitivity | 98dB |
| Impedance | 4 Ω |
| Crossover Point | 1,2kHz |

High Frequency Section

| | |
|--|------------------|
| Acoustic Design | Horn loaded |
| High Horn Coverage Horizontal / Vertical | 80° x 40° |
| Rotatable Horn | Yes |
| Throat Exit Diameter / Diaphragm Size | 1,4" / 3" |
| Diaphragm Material | Nitride Titanium |
| Magnet Type | Neodymium |
| Protection | RMS Limiter |

Low Frequency Section

| | |
|--|------------------------------|
| Acoustic Design | Front Loaded, Bass Reflex |
| Number of Drivers | 1 |
| Woofer Size / Voice Coil Diameter / Design | 12" / 2.5" / Trans Coil |
| Magnet Type | Neodymium |
| Diaphragm Material | Epoxy reinforced cellulose |
| Protection | Thermal breaker - auto reset |

Speaker Input

| | |
|---------------|-------------------------------------|
| Speaker Input | 2x Neutrik Speakon®, Terminal Block |
|---------------|-------------------------------------|

Cabinet

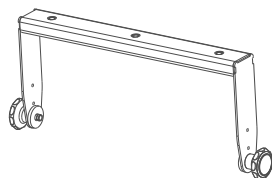
| | |
|------------------|---------------|
| Cabinet Material | Baltic birch |
| Handles | 2 |
| Color | Plastic paint |

Physical Dimensions

| | |
|--------|-----------------|
| Height | 625mm (24.61") |
| Width | 374mm (14.72") |
| Depth | 369mm (14.53") |
| Weight | 24 kg (52.8lbs) |

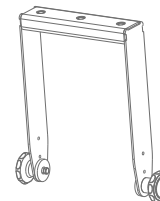
Horizontal Bracket for CS6

part name:
CS6 Horizontal Bracket
part number:
KVV 987 435
description:
- black
- including two
connection
bolts and bracket



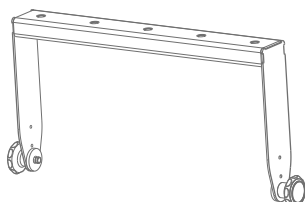
Vertical Bracket for CS6

part name:
CS6 Vertical Bracket
part number:
KVV 987 436
description:
- black
- including two
connection
bolts and bracket



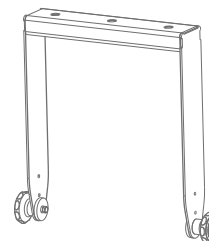
Horizontal Bracket for CS8

part name:
CS8 Horizontal Bracket
part number:
KVV 987 427
description:
- black
- including two
connection
bolts and bracket



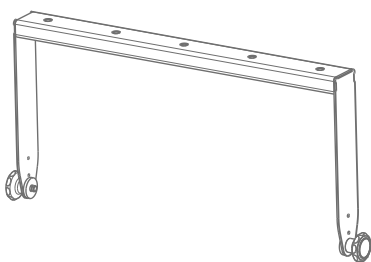
Vertical Bracket for CS8

part name:
CS8 Vertical Bracket
part number:
KVV 987 428
description:
- black
- including two
connection
bolts and bracket



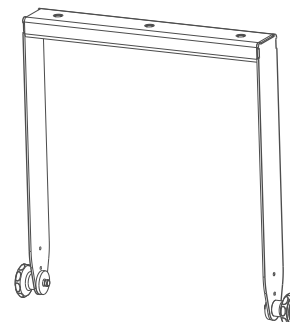
Horizontal Bracket for CS12

part name:
CS12 Horizontal Bracket
part number:
KVV 987 429
description:
- black
- including two
connection
bolts and bracket



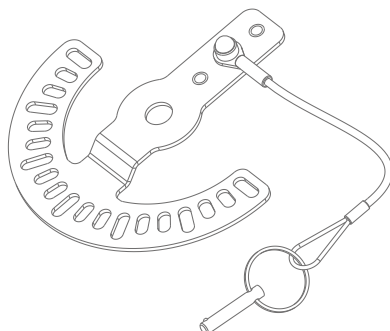
Vertical Bracket for CS12

part name:
CS12 Vertical Bracket
part number:
KVV 987 430
description:
- black
- including two
connection
bolts and bracket



Angle-set attachment for CS

part name:
Angle-set attachment
part number:
KVV 987 451
description:
- angle-set attachment
- quick pin



Speakon speaker cable 4.15

part name:
CABLE SPEAKON 4.15
part number:
KVV 987 326
description:
- 4 wire speaker cable
- Speakon NL4 connectors
- 1,5m (5ft)



Speakon speaker cable 4.40

part name:
CABLE SPEAKON 4.40
part number:
KVV 987 327
description:
- 4 wire speaker cable
- Speakon NL4 connectors
- 4m (13ft)



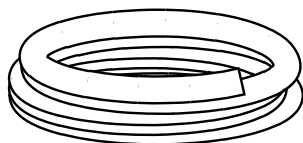
2 Channel Adapter Cable

part name:
2 Channel Adapter Cable
part number:
KVV 987 450
description:
- 2 channel adapter cable

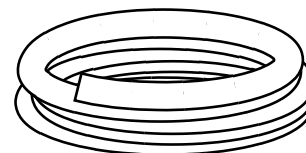


Speaker cables

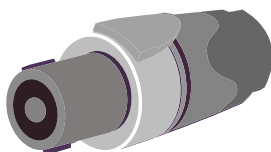
part name:
**1m - round flexible speaker cable,
cross section 2 x 1.5mm**
part number:
WX 002



part name:
**1m - round flexible speaker cable,
cross section 4 x 2.5mm**
part number:
WX 003



part name:
SPEAKON NL4
part number:
KA 027



Recommended maximum speaker cable length

| MINIMUM CROSS SECTION [mm²] | LENGTH [m], impedance 4Ω | LENGTH [m], impedance 8Ω | LENGTH [m], impedance 16Ω |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| 1.5 | 8 | 15 | 30 |
| 2.5 | 15 | 30 | 60 |
| 2 x 2.5 | 20 | 40 | 90 |
| 4 | 25 | 50 | 100 |

Warranty

Your CS is covered against defects in material and workmanship.

Refer to your supplier for more details.

Service

In the unlikely event that your CS develops a problem, it must be returned to an authorised distributor, service centre or shipped directly to our factory. Because of the complexity of the design and the risk of electrical shock, all repairs must be attempted only by qualified technical personnel.

If the unit needs to be shipped back to the factory, it must be sent in its original carton. If improperly packed, the unit may be damaged.

To obtain service, contact your nearest KV2 Audio Service Centre, Distributor or Dealer.



The Future of Sound.
Made Perfectly Clear.

KV2 Audio International

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KVV120147-00-02-0