

# CPD 14 powered



With the KS **CPD 14** and its bigger brother the CPD 18, KS AUDIO has created two tools that belong in every important venue as a main loudspeaker system. They are not just very good average all-rounders, KS AUDIO proves that you can get maximum musicality, perfect impulse behaviour and a more than excellent speech transmission (STI) out of one single system.

With the design of the **CPD 14**, KS AUDIO has created a full-range speaker that is not only unique in its design but also one that achieves audiophile performance in its acoustic properties that no speaker in the PA industry can match.

By using two 10" woofers, the frequency range extends down to 38Hz, despite the compact enclosure. Unique is the design of the sound displacement in the waveguide of the High Frequency line driver with 1.75" driver and its electronic adaptation to the four 5" midrange drivers which results in an even and narrow vertical splay and a coherent wave front without notches even at the crossover frequency. Due to its innovative design, if the loudspeaker is positioned correctly, all listeners will therefore hear the same direct sound and undesirable sound energy and reflections in the room are minimised.

Both woofers are mounted laterally to ensure slim appearance and compact footprint similar to a column speaker. The narrow and rounded baffle is an essential prerequisite for precise midrange reproduction.

By default, you could say that the **CPD 14** is the ideal loudspeaker for the most critical technicians and users. By adding an extra subwoofer, even larger venues can be supplied with loud dynamic live music. However, the **CPD 14** will find its way particularly to where the best musical performance is desired, as well as maximum speech intelligibility. These include boarding rooms, conference halls, houses of worship and, of course, theatres and opera houses.

## POWER UNIT

**CPD 14** features a built-in high efficiency convection-cooled four way digital sound processed amplifier with limiters. Finite impulse response filters (FIR) are matched exactly to the connected transducers and active limiters ensure safe and reliable operation.



120° horizontal coverage already from 600Hz ✓

30° vertical dispersion already from 600Hz ✓

Optimized impuls-response ✓

FIRTEC™ 4-channel DSP ✓

4 power stages - 1500W of undistorted power ✓

132dB max SPL ✓

Real Full Range sound reproduction ✓

narrow and unobtrusive silhouette ✓

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The power module consists of a wide range switching power supply handling 110 V - 240 VAC including line filter technology and switch-on current limiter, three pulse width modulation amplifiers for low-mid range and a high end analog Mosfet amplifier for the high frequency driver. The four five inch midrange speakers are equipped with lightweight yet strong neodymium magnets. Their frequency range is adapted to column height by a passive filter network correction. The diaphragm of high frequency driver unit consists of mylar that is famous for its extreme low distortion.

The input panel consists of XLR male and female sockets and as far as an AES/ EBU digital signal is connected, a digital signal path with a sample rate conversion up to 192 kHz is provided automatically. Also digital volume control and delay option up to 48 meters for vertical public address systems are provided for easy handling of the equipment. **CPD 14** is prepared for the DANTE™ network - DANTE™ ready.

Further features are low-cut switch for satellite use or speech and vocal reinforcement and an Ethernet KS REMOTE control option via KS AUDIO software. Input and output

powerCON sockets are provided e.g. for connecting and powering a separate active sub-low cabinet.

## THE ENCLOSURE

The birch plywood enclosure is treated with a durable anthracite polyurethane coating – as seen at any KS AUDIO product. As an option all kind of RAL – coloring and a fully adjustable mounting bracket are available. A front grille without foam and a flange are further features of this premium product.



The CPD 14 is a loudspeaker with a true full-range character. Only rarely will the need arise to complement it with an additional subwoofer such as the CPD SUB.

## SPECIFICATIONS

Frequency response	38 - 20.000Hz ±3dB
LOW CUT modes	70 / 120Hz
Max. SPL - 1m. free field	132dB
Nominal horizontal dispersion	120°
Vertical dispersion	30°
Transducers	LF: Two 10" ND cone MF: Four 5.5" ND cone HF: one 3.5" mylar ring diaphragm 1.75" throat compression driver
Acoustic Principle	LF: bass-reflex MF: line principle HF: CPC (Constant Phase Sculpture) waveguide
Power handling AES RMS / peak	LF: 500W / 1000W MF: 250W / 500W HF: 100W / 450W

*Specs for model from 2021*

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## INTEGRATED ELECTRONICS

Amplifier type	1x PWM Low, 2x PWM Mid and 1x MOSFET Mid-high
Power supply	SMPS (Switched Mode Power Supply) with power factor correction (PFC)
DSP	4-channel, 32-bit, floating point, 192kHz sampling frequency
Filter technology	IIR and FIR filters, delay adjustments, contour filter
Power input - output	powerCON in / out 110-240V 50-60Hz
Signal input - output	XLR3-F and XLR3-M Analog/AES-EBU autoswitch RJ45 Ethercon 1G T Base for Dante™ and KS AUDIO REMOTE Control

*Specs for model from 2021*

## DIMENSIONS AND WEIGHTS

