



CPD 12 POWERED



The CPD 12 complements the KS AUDIO CPD-Series of DSP controlled active self-powered systems with the unique directivity of HDSP® technology, resulting in the highest sound pressure level even in the lower frequency ranges while simultaneously having the lightest weight possible. The DSP-Controller works with KS AUDIO FIR-Filter technology for true impulse-correct reproduction of audio. There are two-integrated amplifiers – 800W RMS for the 12” woofer and 200W RMS for the 1.4” tweeter – with a peak performance of 2,000W!

The unique sound dispersion design of the HDSP mid/high frequency horn and its electronic blending with the bass/midrange driver is unique. The HDSP®^{Design} results in the multiple integrated dispersion angles that widen downwards towards the near field of the speaker while maintaining tight pattern control and long throw capability. The vertical bending of the HF wave front continues through the cut-off frequency as well as the crossover frequency, without any variance in the frequency response. This means that with a standard two-speaker setup, the audience in close proximity to the speakers will enjoy the same audio quality and definition as those further away.

The electronics are comprised of a switch mode power supply with Power-factor-Correction, a “cold” PWM amplifier for bass/midrange performance, and an analog FET-amplifier with the best audio characteristics for the mid-high compression driver. Both the 12” Long throw woofer and the 1.4 compression driver have strong but light neodymium magnets. The 3” membrane of the compression driver consists of a special aluminum alloy that has a clearly reduced distortion factor in comparison to a titanium membrane.

With the CPD 12, KS AUDIO has responded to the demanding needs of the professional operator with a universal self-powered loudspeaker producing the highest audio quality in a compact size. There are many applications in which the CPD 12 can be used: Theatre, Live-stage Music, in large rooms or tents, as a delay system for far away areas, or as a compact middle-high frequency system in combination with the CPD W1, CPD W2, or CPD WL subwoofers.

The speaker cabinet construction is, like all KS AUDIO systems, built from birch plywood with an extremely robust charcoal colored polyurethane coating. At your request the finish available can be changed to any desired color from the RAL color charts. Another special feature is the two multipurpose fittings on the back of the speaker, allowing the installation of different fly-ware and connectors, which are safely interlocked by means of quick release push-pins. There is a pole mount in the bottom of the cabinet and a protective steel grill on the front, with or without acoustic foam, are further features of this high-quality product.

The rear mounted 2-way FIR CONTROL® DSP amplifier operates very efficiently without the need of a cooling fan. The FIR crossover and filter are specially matched to the drivers, with corresponding compressors and limiters to ensure safe operation. The electronically balanced input is in the form of XLR F+M connectors. The control panel also has a digital volume control to individually adjust for each venue and a digital delay reaching up to 48 m for decentralized PA systems. There is a Lo Cut switch for speech reproduction or for adding a subwoofer to the system. Operation and set-up with a PC using the KS AUDIO REMOTE 3 Software is also possible over an Ethernet connection.

The CPD 12 operates on all AC 110-240V electrical supply. The starting current is electronically limited. There are two PowerCON F+M connectors which allow you to link additional KS AUDIO line of CPD products, such as a CPD subwoofer.

C 12 UNPOWERED

Same as CPD 12 but unpowered.

Technical Specifications

frequency response
output SPL (pink noise at 6dB crest factor)
dispersion angle (horiz. x vertical in degrees)
recom. amplifier / system controller type
transducers
power rms / peak in Watts (AES standard)
amplification / x-over
input / output connectors
cabinet
grill
finish
dimensions (height x width x depth)
weight (without options)
features
options

C 12 unpowered

58 - 19,000Hz +/- 3dB
133dB / 139dB peak
HDSP asymm. 60 - 120 x 35 - 5 dgr tilt
KS CA 4D or TA 4D / D MOD® or FIRMOD2®
12” ND cone + 1.4” ND compression driver
700 + 100 / 1,400 + 200
2-way bi-amp or full-range (switchable) 1,200Hz
Speakon NL4
birch plywood
perforated RVS + acoustic foam (inside)
charcoal polyurethane
58 x 35 x 41 cm 22.6” x 13.7” x 16.2”
21 kg 46 lbs
35 mm pole mount, 4 x M6 mounting points
mounting frame, multi purpose flyware,
black HD cover, finish available in 200 RAL colors

Technical Specifications

frequency response
output SPL (pink noise at 6dB crest factor)
dispersion angle (horiz. x vertical in degrees)
integrated amplifier / system controller type
transducers
power rms/peak in Watts (AES standard)
amplification / x-over
input connectors
input signal
output connectors
cabinet
grill
finish
dimensions (height x width x depth)
weight (without options)
features

options

CPD 12 powered

58 - 19,000Hz +/-3dB
131dB / 136dB peak
HDSP asymm. 60 - 120 x 35 - 5 dgr tilt
Class D fully bridged, FET amp, FIRTEC® DSP
12” ND cone + 1.4” ND compression driver
500 + 100 / 2,000 (sineburst 800+200W)
2-way bi-amp 1,200Hz phase linear FIR
automatic detection analog or digital AES/
EBU XLR3
XLR3 / powerCON inlet 117/230 VAC
XLR3 thru
birch plywood
perforated RVS + acoustic foam (inside)
charcoal polyurethane
58 x 35 x 41 cm 22.6” x 13.7” x 16.2”
25 kg 55 lbs
ethernet in/out, integrated digital delay with
display, 35mm pole mount, 4 x M6 mounting
points, powerCON connector, self regulat-
ing power supply
mounting frame, black HD cover,
finish available in 200 RAL colors