



CPD 1 POWERED

The CPD 1 complements the KS AUDIO CPD-Series of FIR CONTROL® DSP 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 – 400W for the 10" driver and 40W for the 1" tweeter - with a peak performance of 800W

The sound dispersion from the HDSP® mid/high frequency horn and its electronic blending with the bass/midrange driver is truly very unique. The HDSP® design results in 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 thru 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 10" Long throw woofer and the 1" compression driver have strong but light neodymium magnets. The 1" compression driver works with a 3" ring membrane made of Mylar that has a distinctly reduced distortion factor when compared to a titanium membrane.

With the CPD 1, 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 1 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 one of the many KS AUDIO subwoofers we recommend the CPD B or the CPD W1 subwoofer.

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.

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 DSP-controller/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. In addition to the power switch, the control panel also has a selectable digital volume / delay control to individually adjust for each venue and offers a digital delay reaching up to 40 m (120ft) for decentralized PA systems.

The CPD 1 operates on AC 117V-230V electrical supply. The starting current is electronically limited. A PowerCON connector is fitted.

C 1 UNPOWERED

Same as CPD 1 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

C1 unpowered

68 - 19,000Hz +/- 3dB
128dB / 131dB peak
HDSP® asymm. 60 - 120 x 35 - 5 dgr tilt
KS CA 4D or TA 4D / D MOD® or FIRMOD2®
10" ND cone + 1" Mylar compression driver
400 / 800
full-range mode / 1,500Hz passive
Speakon NL4
birch plywood
perforated RVS + acoustic foam (inside)
charcoal polyurethane
52 x 30 x 33 cm 20.5" x 11.8" x 13"
17 kg 37 lbs
35mm pole mount / 4x M6 mounting points
mounting frame / black HD cover,
finish available in 200 RAL colors

Technical Specifications

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

options

CPD 1 powered

68 - 19,000Hz +/- 3dB
128dB / 131dB peak
HDSP asymm. 60 - 120 x 35 - 5 dgr tilt
PWM and bipolar bridge / FIR CONTROL®
10" ND cone + 1" Mylar compression driver
400 + 40 / 800
2-way bi-amp 1,500Hz phase linear FIR
XLR3 / powerCON inlet 117/230 VAC
XLR3 thru
birch plywood
perforated RVS + acoustic foam (inside)
charcoal polyurethane
52 x 30 x 33 cm 20.5" x 11.8" x 13"
20 kg 44 lbs
integrated digital delay with display,
35mm pole mount, 4 x M6 mounting points,
powerCON connector, self regulating power supply
mounting frame, black HD cover,
finish available in 200 RAL colors