

FIR CONTROL®
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CPD 12M POWERED COAXIAL

The CPD 12M complements the KS AUDIO line of the CPD-Series of FIR CONTROL® / DSP controlled active self-powered systems with a very compact wedge-shaped and coaxial driver design making it an excellent stage monitor. Due to its coaxial arrangement of the low-mid driver and mid-high driver the directivity is well balanced in near field applications and helps to prevent feedback. The DSP-Controller works with KS AUDIO FIR-Filter technology for true impulse-correct reproduction of audio and increased resistance to feedback resulting in a beyond expected sound pressure level that guarantees a natural audibility. Two integrated amplifiers supply 500W for the 12" woofer and 100W for the 1.4" tweeter - with a peak performance of 1,200W !!

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 excursion woofer and the 1.4" compression driver have strong but light neodymium magnets. The 3" membrane of the compression driver consist of a special aluminum alloy that has a clearly reduced distortion factor in comparison to a titanium membrane. With the CPD 12M, KS AUDIO has responded to the demanding needs of the professional operator with a universal, self-powered loudspeaker with the highest audio quality in a compact size.

There are many applications in which the CPD 12M 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 tone system in combination with one of the many KS AUDIO subwoofers, we recommend the CPD W subwoofer. The CPD 12M is equipped with a 12" neodymium lower-middle tone chassis with a 4" voice coil, and a coaxially arranged 1.4" neodymium tweeter. The CPD 12M is equally suitable for a normal speaker stand as well as a flying assembly.

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 multipurpose fitting 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. 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 up to 140ms or 40m (120ft) for time alignment and 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 M operates on all AC 110-240V electrical supply. The starting current is electronically limited. There are two PowerCON F+M connectors which allows you to link additional KS CPD products, such as a CPD Sub-woofer.



Technical Specifications

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

options

CPD 12M powered

58 - 19,000Hz +/- 3dB
131dB / 136dB peak
60 x 60, coaxial
PWM, class D fully bridged / FIR CONTROL®, DSP
12" ND cone + 1" compression driver (coaxial)
500 + 100 / 1,000 + 200
bi-amp mode / 1,200Hz
automatic detection analog or digital AES/EBU
XLR3 / powerCON inlet (117/230VAC)
XLR3 - thru / powerCON outlet
birch plywood
perforated RVS + acoustic foam (from inside)
charcoal polyurethane
35 x 58 x 41 cm 13.7" x 22.7" x 16.1"
25 kg 55 lbs
ethernet in/out, remote controlled, integrated
digital delay with display, multipurpose rigging fit-
tings, self regulating power supply
multipurpose rigging ware, black HD cover,
finish available in 200 RAL colors