



# Overbass Ko40

High technology self-powered 21" high-power subwoofer

## Features:

- K** Unique performance-to-size ratio
- K** Self powered
- K** Integrated DSP and remote control
- K** Great output power to cover mid and large sizes venues
- K** Top quality components for outstanding performances
- K** Efficient, high power and high-excursion cone driver
- K** For use in stand alone or in combination with other **K-array** systems



## Applications:

- K** Mid and Large scale events
- K** Touring sound reinforcement
- K** Stadiums, arenas, theatres
- K** Installations in mid and large disco situations

The **Ko40** is a self-powered high output subwoofer. It has an incredible reserve of power that ensures very high pressure maintaining the sound quality constant. The **Ko40** is ideal for medium and big live applications, especially on touring P.A. systems. The **Ko40** is designed to easily integrate with others **K-array** products, for example with **KH4** or **KH15** line array satellites.

The **Ko40** can be used also with **KS4**, to make a very directional high power subwoofer.

The **Ko40** uses a 21" inches very high excursion cone driver for very low frequencies with 6" voice coil, powered by a power amplifier of 4000 watt RMS. The woofer is mounted in a box that ensures high rigidity and resistance to vibrations.

The transducer of **Ko40** is driven by an internal DSP module, a dedicated remote control software allows to control the speaker from PC.

All the **Ko40** components are designed by **K-array** R&D department and custom made under **K-array control quality system**.

## Technical Details

Acoustics	
Power handling	1500 w <sup>1</sup>
Max power	4000 w <sup>2</sup>
Impedance	8 Ω
Operating frequency range	30 Hz - 120 Hz +/- 3dB (preset relating) <sup>3</sup>
Frequency range	25 Hz - 150 Hz +/- 3dB (preset relating) <sup>4</sup>
SPL 1W/1mt	96.5 dB <sup>5</sup>
Maximum SPL	130 dB continuous - 136 dB peak <sup>6</sup>
Coverage	
Horizontal	omni-array dependent
Vertical	omni-array dependent
Cross over	
Type	DSP controlled preset relating
Frequency	150 Hz max suggested (preset relating) <sup>7</sup>
Transducers	
Low - Mid frequency	21" High excursion neodymium speaker with 6" voice coil
Audio Input	
Connectors	male + female parallel 3 poles balanced XLR
Wiring	Pin1 = ground / Pin2 = hot / Pin3 = cold
Remote control Input	
Connectors	2 x female 8 poles RJ45
Power Input	
Connectors	2 x PowerCon IN/OUT
Amplifiers	
Type	Class D - DSP controlled
Power	4000 Watt on 8 ohm <sup>8</sup>
Protections	Dynamic limiter, over current, over temp, short circuits
AC power	
Operating range	Standard 100 - 240 Vac 50-60Hz (auto-range)
Max continuous and burst current	Standard 10A(>10 sec) - 20A (<1 sec)
Physical	
Measures	60 x 60 x 85 cm
Weight	42 Kg

### Notes for data

1. Power handling is measured following AES standard conditions: transducers driven continuously for two hours with a band-limited noise signal having 6 dB of crest factor.
2. Max power is the maximum RMS applicable power for a musical signal, the reference signal is the one proposed by EIAJ standard.
3. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
4. Free field measured with 1/3 octave frequency resolution at 2 mt.
5. Measured@4 mt then scaled@1 mt.
6. Measured with audio source @1 mt.
7. This is the frequency in which the transducers produce the same sound pressure level (measured@2 mt).
8. Amplifier wattage rating is based on the maximum unclipped burst sine wave RMS voltage that the amplifier will produce into the nominal load impedance.

New materials and design are introduced into existing products without previous notice.  
Present systems may differ in some respects from those presented in this brochure.