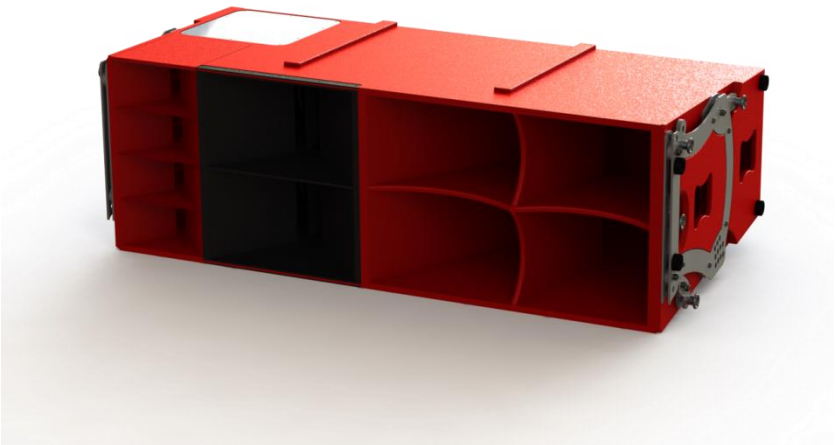
v3-LCS Specifications



Description

V3-LCS can be manufactured to work with a liquid cooling system in order to reduce the heat in each one of the 8'' speakers, which allows the system to work for a long time without any change in the sound pressure level. In every loudspeaker there is an option to be used specially selected according to T&S parameters FERROFLUID which benefits are:

-Increased thermal power handling
-Reduced thermal power compression
-Smoothing of frequency response curve
-Reduced distortion
-Reduced warranty returns
-Increased production yields

The presence of horns leads to an extremely high sound pressure, low distortions and an optimal sound dispersion.
In order to achieve a flat wave in the mid-frequency and in the high-frequency spectrum we use two 8'' speaker and four 1'' drivers.
The mid and high sections are loaded by a wave converter which transforms the spherical waves into cylindrical isophase waves.
In this way the interference between them is reduced to minimum and as a result there is maximum
concentration in mid- and high-frequency spectrum.
An exceptional Hi-Fi sound with incredible sound pressure and phase characteristics is achieved.
In combination with HL118BR, RLH118SX, BP218LF or BP218 the system is a perfect choice for sports halls and stadiums.

The loudspeaker shall be operated with a separate dedicated electronic controller.

v3-LCS Specifications

LOUDSPEAKER **Subsystem:**

Transducer	***Loading***
LF 2 x 10-in cone / 3''Voice Coil/	Horn-loaded
MF 2 x 8- in cone /2''Voice Coil with ferrofluide/	Loaded by a wave converter which transforms the spherical waves into cylindrical isophase waves
HF 4 x 1-in compression driver /44.4 mm Sandwich in- and outside Voice Coil	Loaded by a wave converter which transforms the spherical waves into cylindrical isophase waves

Operating Mode: Active

Amplifier Channels	***External Signal Processing***
Three -amp LF, MF, HF - active mode	DSP /3-way filters

PERFORMANCE

Operating Range:	90 Hz - 21 kHz (- 3 dB)
Nominal Beamwidth: H/V	90° x 10°

Power handling AES

LF-132.6Vrms(90-300Hz)	1100W @ 16Ohm
LF-97.7Vrms(350-1800Hz)	600W @ 16Ohm
HF-71,5Vrms(2-18kHz)	320W @ 16Ohm

Axial Sensitivity (@4V/16ohm/1m)

LF 104dB	250Hz to 350Hz
MF 109dB	900Hz to 1100Hz
HF 114 dB	2kHz to 4kHz

Input Impedance

Nominal
LF – 16 ohm
MF – 16 ohm
HF – 16 ohm

High Pass Filter Active Mode

LF – High Pass=> 90Hz, 36 dB/octave Butterworth
MF – High Pass=> 300 Hz, 36 dB/octave Butterworth
HF – High Pass=> 1800 Hz, 36 dB/octave Butterworth

Axial Output SPL @ 1m

Average	***Peak***
LF 134 dB	140dB
MF 136 dB	144 dB
HF 138 dB	146 dB

PHYSICAL

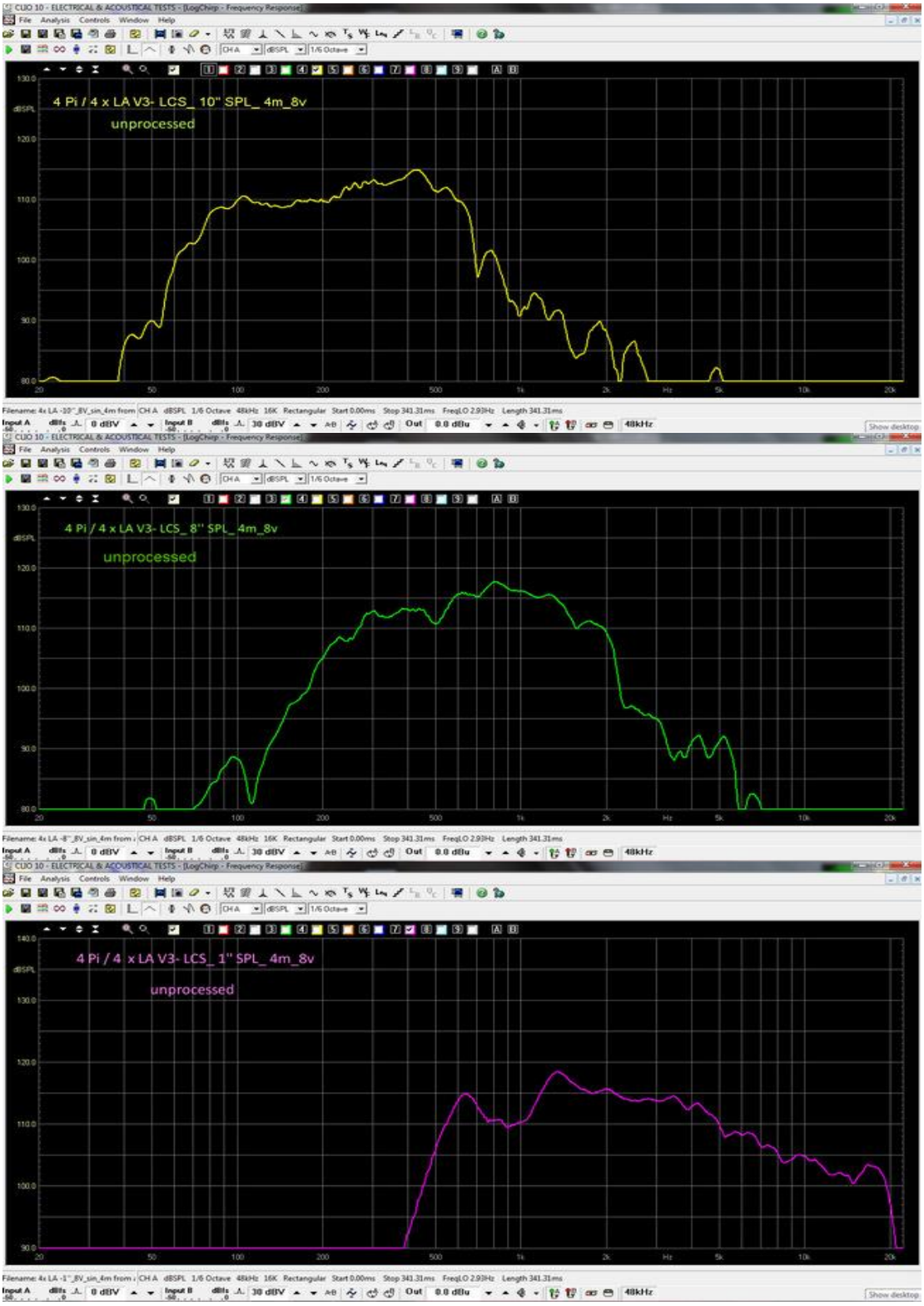
Dimensions 1412 x 478 x 670 mm (W,H,D incl. hardware)
Net Weight: 104kg

ORDERING DATA

Description
LA V3LCS - Red or Black (Two Colours – optional)
Optional Accessories
Cover (Single protection for one LA V3LCS), Ball Lock Pins, Dolly Board.

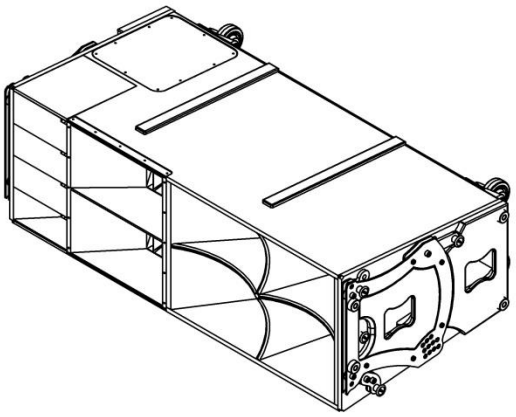
v3-LCS Specifications

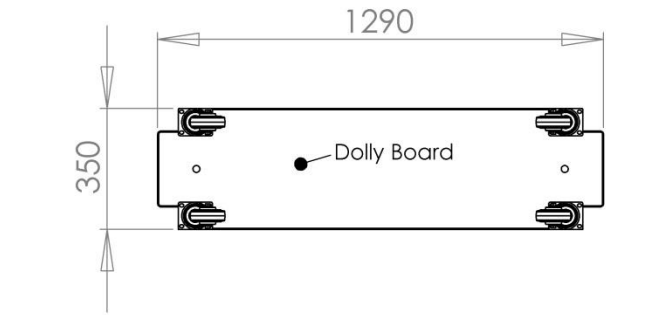
Frequency Response Graphs of 4 x LA V3-LCS

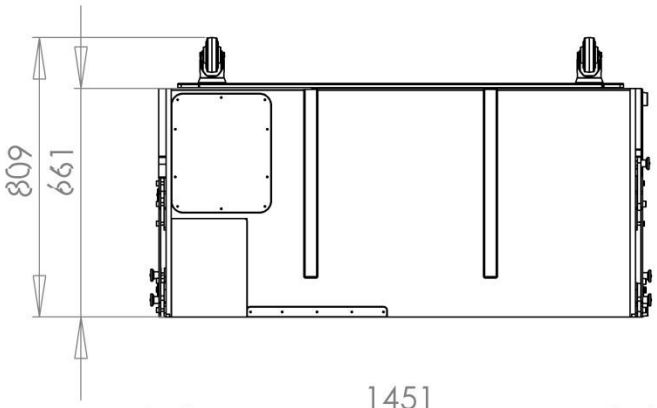


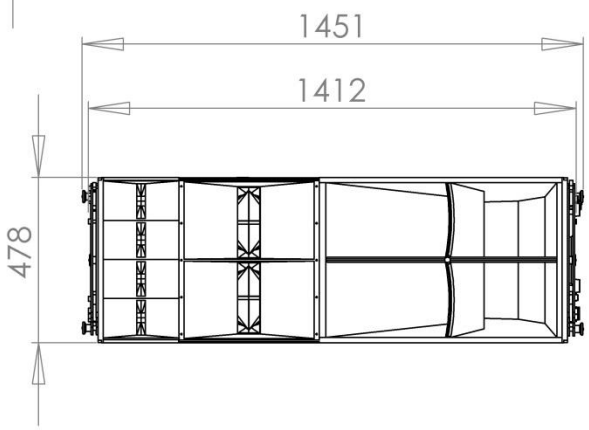
v3-LCS Specifications

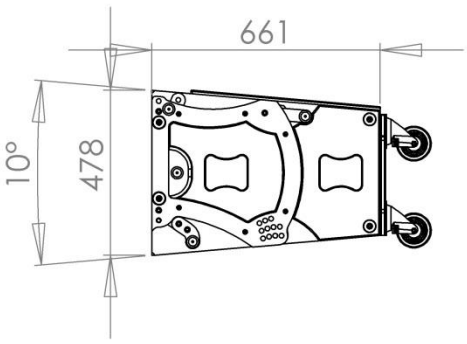
Drawing











- All dimensions are in mm