

Bass Extension - digitally powered **TSM Sub dp+**



Universal high-powered subwoofer with an integrated 2 x 1000 W class D amplifier and two channel DSP controller. A range of factory-configured presets and volume settings can be selected. Depending on the selected preset, the Speakon connector of the second amplifier channel is used to connect a HiMid system, or a passive TSM sub. The low weight and high quality electronics in the power amp stage make the TSM Sub dp+ an interesting alternative for many applications which require flexibility, power handling capacity and good audio quality.

PRODUCT SPECIFICATIONS

Speaker Components	15" Nd
Description	Digitally Powered Bass Extension
Amp Power	2 x 1000 W AES / 110-230 V
Rated Current	1,2 A @ 230 V
SPL Peak @ 1 m	131 dB
Max. Input Signal	25 dBu
DSP	HDLM FPGA Processing 32 bit floating point
AD / DA	24 bit / 96 kHz
Latency	0,8 ms (analog in to analog out)
Usable Range	35 Hz - 100 / 120 / 140 Hz
Tuning Frequency excursion minimum	42 Hz
Connectors	Neutrik XLR in/out Neutrik PowerCon in/out Neutrik Speakon out
Handles	2 x
Rigging / Fittings	M20 on top Wheel board fittings
Weight	25,5 kg (+ 6,0 kg wheel board)
Size height x width x depth	51,5 x 47,0 x 56,0 cm
Order No.	00974/dp+



Removable wheel board for simple transportation.

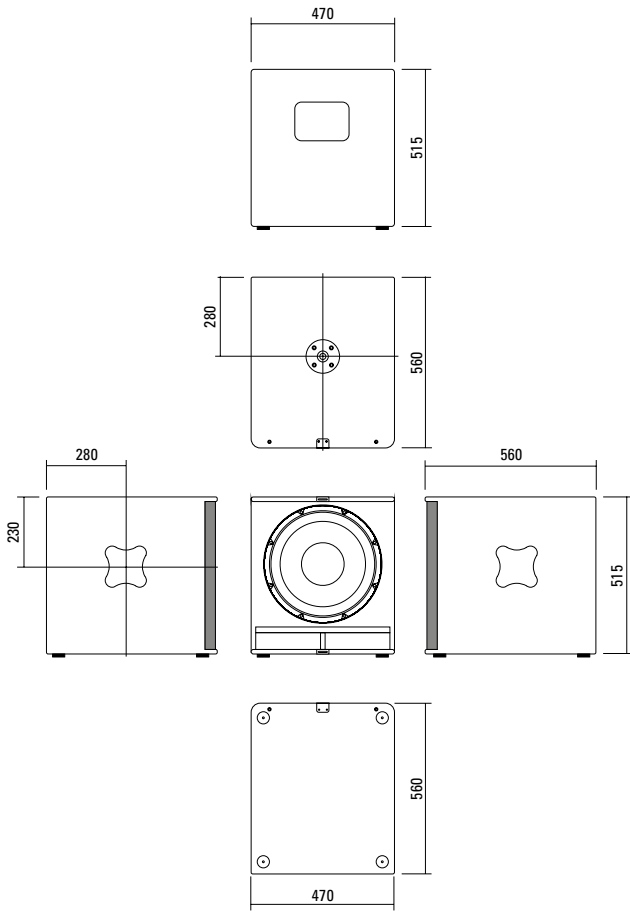


Connection panel.



M20 flange on top.

DIMENSIONS



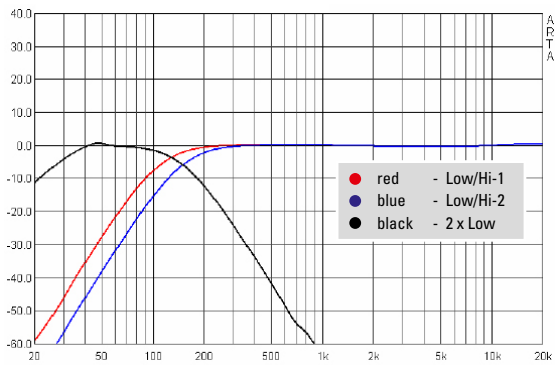
APPLICATIONS



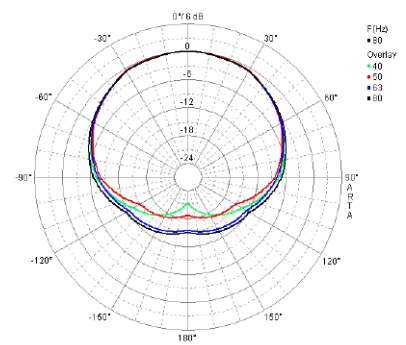
1 x TSM Sub dp+ / 2 x TSM Sub
Cardioid set-up.

MEASUREMENTS

Presets - Frequency Response (electrical)



Cardioid - Polar Diagram



The TSM Sub dp+ features integrated digital amplifier electronics with a DSP controller. Various factory-configured presets and volume settings can be selected.

High-grade electronic components from the industrial sector

and a first-class circuit design ensure excellent audio quality with low distortion and a minimal noise floor.

Highly efficient and "intelligent" limiter systems ensure optimum protection against overload, without restricting the possibilities offered by this high-performance sound system.

TSM Sub dp+

digitally powered Bass Extension

Level

Adjustment in 3 dB steps (-6 dB to +3 dB).

Status

Mute LED

Red light when the system is muted or under technically critical conditions.

Limit LED

Yellow light when the limiter is restricting the level.

Signal LED

Green light when the input signal exceeds -20 dBu.

Power LED

Green light when the system is switched on.

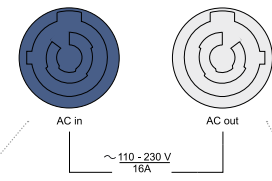
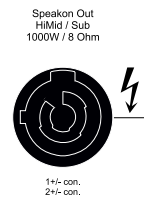
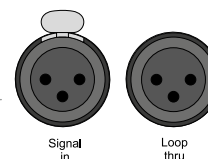
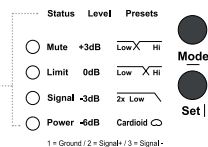
XLR

Symmetrical analog input, max. Input +25 dBu. Effective filter protection against HF interference and DC Voltages. Virtual ground lift.

Speakon NL4MP

Connector for passive tops or subs or both on the second amplifier channel. (pins 1 +/- top and 2 +/- sub).

Amp Power AES	2x 1000 W
max. Input Signal	25 dBu
max. SPL @ 1 m	131 dB
Frequency Range	35 Hz - 140 Hz
Rated Current	1,2A @ 230V
Mains Supply	~ 110 - 230 V
Weight	25,5 kg



PowerCon (blue)
Power supply
~ 110-230 V / 16 A max.

PowerCon (grey)
~ 110-230 V / 16 A max.
loop through connector

Presets

Low/Hi

2-way active preset with a 100 Hz crossover frequency. Suitable for use with larger passive top cabinets.

Low/Hi

2-way active preset with a 140 Hz crossover frequency. Suitable for use with compact passive top cabinets.

2 x Low

Subwoofer mode without tops with a 100 Hz crossover frequency. Up to two TSM Subs can be connected to the additional Speakon socket. Power rating: 1000 Watt / 8 Ω.

Cardioid mode

For directional bass reproduction in conjunction with one or two additional TSM Sub or TSM Sub dp+ systems. This mode is applied only to the rear-facing sub. The level reduction to the rear can, depending on the actual physical setup and the frequency, be up to 20 dB.

Mode - key

Switches between control modes Status, Level and Presets.

Set - key

Setting of various values and Mute on / off.

ACCESSORIES TSM Sub dp+

Speaker Pole

M20, with wind up, K&M

Order No. **03023**

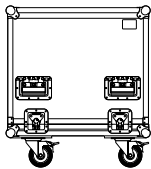


M20, adjustable, K&M

Order No. **03022**

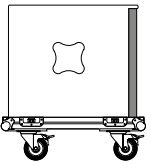


Flight Case



for 1 x TSM Sub, heavy duty,
6,5 mm birch multiplex, PVC coated,
ball corners, 6 x recessed sprung
handles, 4 x butterfly catches,
100 mm blue wheels, 2 x with brake,
interior lined with felt

Order No. **16048**



Cover



for TSM Sub (all types)
without wheel board

Order No. **01247**



for TSM Sub (all types)
with wheel board

Order No. **01246**

Wheel Board



for TSM Sub, stackable, 6 kg

Order No. **01265**

Hybrid Cable System



PowerCon-PowerCon / XLR-XLR

5 m Order No. **08464**

10 m Order No. **08466**

15 m Order No. **08468**



Stackable wheel board.