



DUPLEX SET

Portable series



Optimal curved two elements line array
(8" LF + 2 x 1" HF)

Built-in amplifier 2 x 700 W RMS with DSP engine
(FIR EQ and crossover used)

Adjustable vertical tilt $\pm 13.5^\circ$ (step 4.5°)

Coverage $100^\circ \text{H} \times 22^\circ \text{V}$

Active subwoofer (amp 2000 W) with 18" loudspeaker

Maximum SPL 133 dB / 1 m

Frequency range 38 Hz - 18 kHz

Preset settings switches

Adjustable speaker stand **König and Meyer**
with vibration-free connection

16 mounting holes M10

Portable loudspeaker system

Application

*Well-suited for indoor and outdoor usage:
clubs, disco, restaurants, bands.*

Kit contents:

- **D422e** Compact Active Line Array System 2 pcs.
- **TX6118-P** Active Subwoofer 2 pcs.
- Adjustable Speaker Stand **König and Meyer** 2 pcs.

Active Line Array System D422e

D422e compact loudspeaker is an active system, consisting of two line array elements, mounted in the single cabinet. Elements are mounted relative to each other at an angle of 8 degrees.

Each element contains one 8" speaker (B&C SPEAKERS) with neodymium magnet and two 1" HF driver (B&C SPEAKERS), loaded through the waveguide for short CD horn. The optimal line array curvature provides advanced vertical coverage.

Two-channel **D** class amp (2x700 W) is installed on insulated compartment to the rear. The amplifier is equipped with power supply with **PFC** and powerful **DSP** engine, acting as crossovers, EQ, time alignment, limiting and speakers overload protection. **DSP** accurately handles the audio signal thanks to its functions of equalization, filtering, delay, limiter and protection. Thanks to the technology of FIR filters the speaker has a high linear phase and amplitude response.

DSP enables users to choose between three preset equalization settings, in order to adapt the system output in various situations.

The **D422e** cabinet is made of birch plywood with black water-polymer paint finish. The front panel of the loudspeaker is covered with a decorative protective steel grid. Additional protection against moisture is provided by acoustically transparent foam, glued to the inner surface of the grid. To install **D422e** on a speaker stand is used a flange with a discretely variable tilt angle. Low weight (23 kg) and two ergonomic handles, located on the side walls, allow carrying and installing **D422e** by one person.

Due to 16 mounting holes M10 the loudspeaker **D422e** can be mounted at any position.

TX6118-P Active Subwoofer

TX6118-P, active subwoofer, included in the kit, contains one 18" speaker (B&C SPEAKERS, 4" voice coil, 1200W), mounted on the front panel. Powerful **D** class amp (2000W) is installed on insulated compartment to the rear. The amplifier is equipped with power supply with **PFC** and powerful **DSP** engine, acting as crossovers, EQ, time alignment, limiting and speakers overload protection. **DSP** accurately handles the audio signal thanks to its functions of equalization, filtering, delay, limiter and protection.

The **TX6118-P** cabinet is made of birch plywood with black water-polymer paint finish. The front panel of the loudspeaker is covered with a decorative protective steel grid. Additional protection against moisture is provided by acoustically transparent foam, glued to the inner surface of the grid. There are four ergonomic handles on the side walls for the convenience of carrying.

D422e OPERATION MODE

Mode switches are located on the front panel of the built-in amplifier.



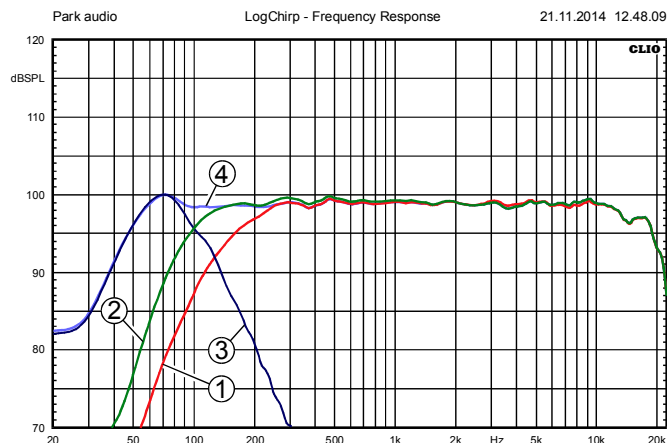
LF Switch

NORM – for use **D422e** together with subwoofer **TX6118-P**. The cutoff frequency of the high pass filter (HPF BTW 24dB / oct) - 120 Hz. In this mode, the system **D422e** is aligned with subwoofer **TX6118-P**.

BOOST - for self-use **D422e** (without a subwoofer) as the main FOH system, or as a fill system (Front Fill, Side Fill).

SPL curves are shown below:

- ① – **D422e** SPL, Normal mode;
- ② – **D422e** SPL, LF boost mode;
- ③ – **TX6118-P** SPL;
- ④ – **D422e** + **TX6118-P** SPL.



HF Switch

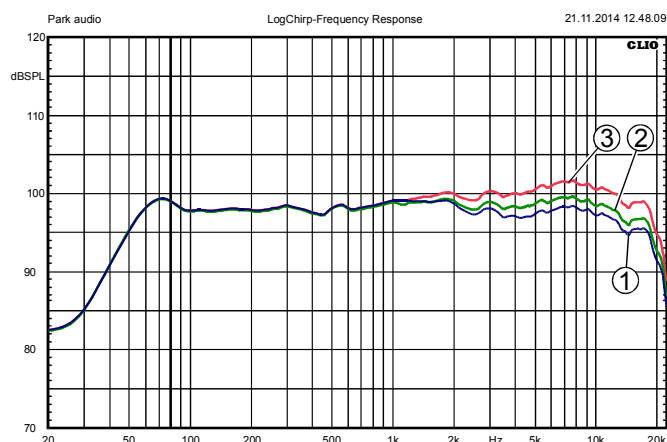
SHORT THROW – is used for near-field zone;

MID THROW – provides a balanced reproduction of mid and high frequencies;

LONG THROW – is used for long-distance zone or, if necessary, to compensate for the increased level of low frequencies.

SPL curves are shown below:

- ① – Short Throw;
- ② – Mid Throw;
- ③ – Long Throw.



Line Output Switch

THRU position – line input and line output are connected in parallel. Used for parallel connection of multiple systems.

SUB position - line output signal is processed by LPF filter with a cutoff frequency of 100 Hz. Used to connect a passive subwoofer through any external power amplifier.

TECHNICAL DATA

D422e Loudspeaker

Configuration

Active two-way compact line array system.

LF Driver:

2x 8" dia **B&C SPEAKERS** voice coil 2"

HF Driver:

4x 1" dia **B&C SPEAKERS** voice coil 1.4"

Acoustic design

Trapezoid cabinet, bass reflex.

Acoustical performance

Power Handling (nominal/continuous):

– HF	100 / 200 W
– LF	400 / 800 W

Frequency Range*:

– NORMAL mode	110 Hz - 18 kHz
– LF BOOST mode	70 Hz - 18 kHz

Coverage

100° H x 22° V (-6dB)

Maximum Output SPL**

127 dB / 1m

Weight

21.5 kg

Dimensions:

– width	398 mm
– height (front/ rear)	452 / 364 mm
– depth	364 mm

Electrical Performance

Power Rating (RMS)	2 x 700 W, D class
Sensitivity	775 mV
Input Impedance	10 kOhms
Signal-to-Noise Ratio	98 dB (unweighted)
Input/Line Output	XLR / XLR
Cooling System	forced***
Power Requirements	~160 - 280 V, 50/60 Hz
DSP engine: Sampling rate – 48 kHz, DAC/ADC – 24-bit, internal processing – 56-bit	

Note.

* **D422e + TX6118-P** Frequency range: 38 Hz - 18 kHz. .

** For comparison purposes and in accordance with common industry practice, maximum SPL specifications are calculations based upon transducer sensitivity, amplifier output voltage and speaker impedance.

*** With smoothly variable intensity. At a normal temperature and low output level the fan is OFF.

TX6118-P Subwoofer

Configuration

Active subwoofer.

LF Driver:

18" dia **B&C SPEAKERS**, voice coil 4"

Acoustic design

Rectangular cabinet, bass reflex.

Acoustical performance

Power Handling (nominal)	1200 W
Power Handling (continuous)	2400 W
Frequency Range *	38 - 100 Hz
Maximum Output SPL (half space) **	133 dB / 1m
Weight	42 kg
Dimensions:	
– width	570 mm
– height	542 mm
– depth	677 mm

Electrical Performance

Power Rating (RMS)	2000 W, D class
Sensitivity	775 mV
Input Impedance	10 kOhms
Signal-to-Noise Ratio	98 dB (unweighted)
Input/Line Output	2 x XLR / 2 x XLR
Cooling System	forced***
Power Requirements	~160 - 280 V, 50/60 Hz
DSP engine: Sampling rate – 48 kHz, DAC/ADC – 24-bit, internal processing – 56-bit	

