The PLA2821 is a true line array with typical -3dB behaviour for each doubling of distance, a very narrow vertical dispersion of 3.75° * 3.75° gives the system an unsurpassed control over vast distances. The horizontal dispersion is 120° and with the specially designed waveguides controlling and "steering" the sound, a fullrange linear arrayed behavior is achieved over the whole frequency response, not only in the HF wave guide. This gives an astounding stereo image and sound separation, never experienced before in line array systems.

The frequency response is flat and undistorted, with next to no coloring of the sound. Using only the very best components available ensures the highest possible quality in sound, with extremely low distortion. The PLA2821 are sold in pairs where one master and one slave are used. The master module holds all amplification and processing, feeding the slave module with 500W of DSP-processed class-d amplification through a 4-way speakon connector. To achieve a true controlled line source down to apx 200Hz, you need at least 6 units, for 150Hz you need 8-10 units, and for 100Hz you need 12 units (6 pairs).

**Features**
- Compact format.
- 2 x 8” woofers mounted on two separate 120° baffles.
- 2 x 1” driver mounted on a 120° waveguide.
- Self-powered with built-in amplifier and a total of 1000W with on-board DSP processing.
- Controled dispersion of H120° x V7.5°.
- Flat frequency response with low distortion and high SPL.
- True line array behaviour with a -3dB SPL.
- Coherent wavefront where the frequency response and frequency reproduction are the same over the dispersion area.
- Sold and used in pairs (master/slave) where the master houses all electronics and amplification.
- Overdimensioned 8 mm. aluminium hardware (each speaker has 3 x 8 mm x 4 points of aluminium thickness).

**Applications**
- Medium sized line array for use in live applications speech and recorded music such as concerts, festivals, club performances and events.
- Either flown or groundstacked, with the smart and easy to use rigging hardwares.
- Installed horizontally in small clusters where dispersion are paramount.
- Installed in venues, theatres, churches and other indoor facilities.
- Sidefill, groundstacked on any of our subwoofers prepared for line array stacking.
- Small sized high power PA with 2-4 pcs. mounted on a stand with subwoofer, for use in live application and recorded music, such as bands, DJ’s, Events.
- Delay system / delaytower in larger venues.
- Installed 2-4 pcs / cluster vertically in nightclubs, live performance stages, bars and lounges etc.
  with a very controled dispersion.
Technical data PLA2821:

- **Model**: PLA2821
- **Low frequency driver**: 2 x 8" Neodymium lightweight drivers, mounted on separate 120o baffles.
- **High frequency driver**: 2 x 1" throat exit driver, mounted on a waveguide.
- **Construction**: self-powered, vented cabinet (bi-amped version upon request)
- **Sensitivity**: 100 dB @ 1W/1m.
- **Nominal impedance**: Each component are 16 ohm.
- **Power handling R.M.S.**: 400W
- **Max SPL, open space (calc.)**: 135 @ 1000W (144 dB 2 x 8 pcs in array)
- **Frequency response**: +/- 6dB 60Hz - 20kHz
- **Vertical dispersion**: -6dB 7.50
- **Horizontal dispersion**: -6dB 1200
- **Measurements H x W x D mm.**: 280/215 x 760 x 400
- **Weight**: 23 kg.
- **Recommended crossover in an active system with subwoofers**: HP@90Hz, 24-48dB/oct
- **Recommended pre-programmed DSP processors**: PROPHON DSP26, PROPHON DX48, PROPHON DSP48
- **Applications**: - Fixed Installations.
  - Live performances.
  - 2-4 pcs stacked/mounted on subwoofers in a PA-system
- **Recommended subwoofers**: HB212, (B6, B18 in a cardioid array)
- **Accessories**: - Flightware for rigging, case.

Extended Technical information, amplifier

- **Input**: Neutrik XLR female
- **Link out**: Neutrik XLR male
- **Power in**: Neutrik powercon blue
- **Power out**: Neutrik powercon grey
- **Mains Voltage Range**: 195 - 250 Vac, 50/60Hz
- **Max power consumption (1/8 max output)**: 1.6A - 2.6A
- **Max output current draw**: 28A
- **Efficiency**: >85% (typical)
- **Damping factor**: >500@100Hz, 200@1kHz
- **Distortion**: <0.05% (THD, DIM, SMPTE)
- **Power**: 2 x 500W
- **S/N ratio**: <105 dBA (20Hz - 20kHz A weighted)
- **Frequency response**: 10Hz - 25kHz (+/-3dB)
- **Input impedance**: 10 kOhm balanced to ground
- **Input sensitivity @ 8 ohm**: 1.12 V / 3.20 dBu
- **Crosstalk separation**: >70 dB @ 1 kHz
- **S / N ratio**: >112 dB(A) (20Hz - 20kHz)