



Dynamic Audio Solutions

## **PF<sup>+</sup> Series**

**MULTI PURPOSE COMPACT  
FULL RANGE SPEAKER**

**HIGH PERFORMANCE  
SUBWOOFER**

# **QUICK START MANUAL**

Revision A1-2011-09

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Welcome into the world of AUDIOCENTER , a world of Dynamic Audio Solutions. By acquiring a PF<sup>+</sup> series speaker, you will enjoy a product embedded with the last technological achievement and the best materials in pro audio. Many years of effort were put to reach our goal of excellence, creating a system without any quality or compromise for real professional people. We hope you will be pleased to use your new speaker like we are pleased to design it.

## **SAFETY PRECAUTIONS**

When setting up, installing and using the PF<sup>+</sup> series speaker system, there are a number of important safety precautions that you should follow:

- 1 Some aspects of rigging are potentially hazardous. Any people using this equipment are personally responsible for their own safety. AUDIOCENTER transactions are made with the assumption that the purchaser is a qualified individual or will have only qualified individuals perform work with the equipment.
- 2 We strongly recommend that suspended speakers take into account all current national, federal, state and local regulations. It is the responsibility of the installer to ensure that, speakers are safely installed in accordance with all such regulations.
- 3 If any sign of weakness or damage is detected, remedial action should be taken immediately.
- 4 When speakers are used for portable applications in which they will be positioned directly on the floor, make sure that the floor or stage is solid and secure. Do not try to make the stand "taller" and compromise its structural integrity.
- 5 Do not attempt to suspend more than one speaker on a stand designed for a single speaker.
- 6 Route cables and position the stand so that performers, production crew and audience members will not trip over the stand or cables and pull the speaker system over. Secure cables with wire ties or tap whenever possible.
- 7 Do not place loudspeakers near the magnetic sensitivity devices such as CRT display, television monitors or data storage material.
- 8 Loudspeakers are capable of generating sound pressure levels sufficient to cause permanent hearing damage to anyone within normal coverage distance. Caution should be taken to avoid prolonged exposure to sound pressure levels exceeding 105dB SPL.
- 9 To obtain service, contact your nearest AUDIOCENTER Service Center or Dealer.

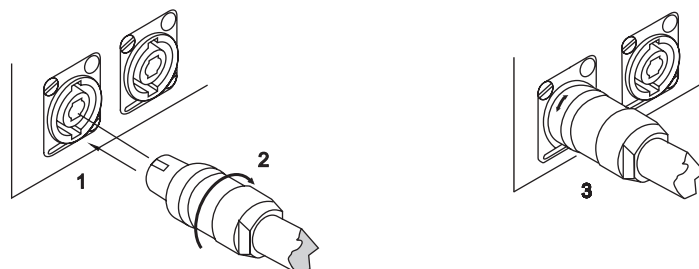
## **PREVENTING LOUDSPEAKER DAMAGE**

In general, the more powerful the amplifier the better it will sound, provided that it is not driven into sustained clipping. It should be understood that over driving an insufficiently powered amplifier is more likely to cause loudspeaker damage. The total energy in a heavily clipped signal is far higher than in an unclipped signal than operating a more powerful amplifier within its ratings.

For long time working, it's very important to use a processor connected before the amplifier, calculate accurately the Numerical value of the limiter about the system, which will be set into the processor. if you don't have value of the limiter, please contact us. We look forward to helping you!

## **CONNECTING GUIDANCE**

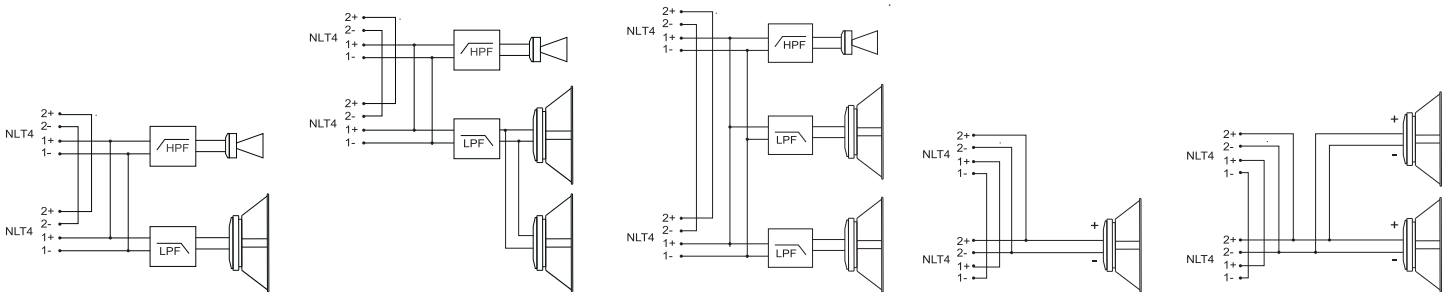
PF<sup>+</sup> series uses two NEUTRIK NL4MP SPEAKON connectors. These connectors are specifically designed for loud speaker use, with in mind safe and reliable connection. To use your loudspeaker, insert the male SPEAKON connector into any of the input SPEAKON socket and rotate it clockwise. It will then lock into place and be ready for use. The two parallel connectors allow easy loop from one speaker to the next. Unused connector pins are also paralleled. Both connectors can be used as either inputs or outputs.



**WIRING AND CONNECTING**

To ensure quality sound and minimum power loss, the speaker cable needs to have a large enough cross section depending on the cable length, number of speakers per channel and speaker impedance. The total impedance for a number of speakers in parallel is equal to the impedance of one divided by the number of speakers.

**WIRING SCHEMATIC**



PF6<sup>+</sup>/PF8<sup>+</sup>/PF10<sup>+</sup>/PF12<sup>+</sup>/PF15<sup>+</sup>

PF26<sup>+</sup>

PF152<sup>+</sup>

PF115B<sup>+</sup>/PF118B<sup>+</sup>

PF215B<sup>+</sup>/PF218B<sup>+</sup>



PF6<sup>+</sup>



PF26<sup>+</sup>



PF8<sup>+</sup>



PF10<sup>+</sup>



PF12<sup>+</sup>



PF15<sup>+</sup>



PF152<sup>+</sup>



PF115B<sup>+</sup>



PF118B<sup>+</sup>



PF215B<sup>+</sup>



PF218B<sup>+</sup>

## ■ PF+ Series data sheet

| Specifications                             |            | PF6+  | PF26+          | PF8+  | PF10+   | PF12+   | PF15+                 | PF152+          | PF115B+   | PF118B+          | PF215B+         | PF218B+        |  |
|--|------------|---|----------------|---|---|---|-----------------------|-----------------|---|------------------|-----------------|----------------|--|
| Rated Power (AES standards)                | Continuous | 120W  | 240W           | 200W  | 250W  | 400W  | 400W                  | 800W            | 700W  | 800W             | 1400W           | 1600W          |  |
|  | Program    | 240W  | 480W           | 400W  | 500W  | 800W  | 800W                  | 1600W           | 1400W   | 1600W            | 2800W           | 3200W          |  |
|  | Peak       | 480W  | 960W           | 800W  | 1000W   | 1600W   | 1600W                 | 3200W           | 2800W   | 3200W            | 5600W           | 6400W          |  |
| Impedance                                  |            | 8Ω  | 4Ω             | 8Ω  |   |   |                       | 4Ω              | 8Ω  |                  | 4Ω              |                |  |
| Frequency Response (-6dB,anechoic chamber) |            | 63Hz-20KHz  |                | 60Hz-20KHz                                      | 60Hz-19KHz  | 55Hz-18KHz                                      | 55Hz-19KHz            | 45Hz-20KHz      | 35Hz-300Hz  | 32Hz-300Hz       | 35Hz-300Hz      | 32Hz-300Hz     |  |
| Average Sensitivity                        |            | 91dB/1W/1M  | 94dB/1W/1M     | 94dB/1W/1M                                      | 95.5dB/1W/1M  | 97dB/1W/1M                                      | 98dB/1W/1M            | 101dB/1W/1M     | 97dB/1W/1M  | 99dB/1W/1M       | 100dB/1W/1M     | 102dB/1W/1M    |  |
| Maximum Calculated SPL/1M                  | Continuous | 112dB   | 118dB          | 117dB   | 119.5dB   | 123dB   | 124dB                 | 130dB           | 125.5dB   | 128dB            | 131.5dB         | 134dB          |  |
|  | Program    | 115dB   | 121dB          | 120dB   | 122.5dB   | 126dB   | 127dB                 | 133dB           | 128.5dB   | 131dB            | 134.5dB         | 137dB          |  |
|  | Peak       | 118dB   | 124dB          | 123dB   | 125.5dB   | 129dB   | 130dB                 | 136dB           | 131.5dB   | 134dB            | 137.5dB         | 140dB          |  |
| Directivity -6dB (H°xV°)                   |            | 80°x70°(above 1400Hz)   |                |   | 90°x60°(above 1400Hz)                                 |   | 90°x60°(above 1200Hz) |                 | /   |                  |                 |                |  |
| HF driver                                  |            | Customized Beyma ferrite drivers,1" exit,1.7" voice coil  |                |   |   |   |                       |                 | /   |                  |                 |                |  |
| LF Driver                                  |            | Customized Faital ferrite drivers, 1.26" voice coil   |                | Customized Beyma ferrite drivers, 2" voice coil | Customized Audiocenter ferrite drivers, 2" voice coil | Customized Beyma ferrite drivers, 3" voice coil |                       |                 | Customized Audiocenter ferrite drivers, 4" voice coil |                  |                 |                |  |
| Crossover                                  |            | 2800Hz  | 2400Hz         |   | 2200Hz  | 1800Hz  | 1900Hz                | 350Hz/1600Hz    | /   |                  |                 |                |  |
| Crossover Mode                             |            | Passive   |                |   | Passive crossover & BI-AMP function selectable        |   |                       |                 | /   |                  |                 |                |  |
| Hanging Hardwares                          |            | 14 pcs M8 screw points  |                |   |   | 13 pcs M8 screw points                          |                       |                 |   | /                |                 |                |  |
| Average H2 Distortion                      |            | < 2% at 1W  |                |   |   |   |                       |                 |   |                  |                 |                |  |
| Average H3 Distortion                      |            | < 0.5% at 1W  |                |   |   |   |                       |                 |   |                  |                 |                |  |
| Monitor Use                                |            | /   |                | Suitable  |   |   |                       | /               |   |                  |                 |                |  |
| Pole Mount                                 |            | Base hole φ 35mm  |                |   |   |   |                       | /               |   | Base hole φ 35mm |                 |                |  |
| Cabinet                                    |            | CNC made tongue and groove cabinet design made by Russian birch plywood   |                |   |   |   |                       |                 |   |                  |                 |                |  |
| Finish                                     |            | Emery spraying  |                |   |   |   |                       |                 |   |                  |                 |                |  |
| Optional Accessories                       |            | Flight case with 100mm wheels / Durable protection cover / M8 eyebolt / Safety bracket / Stainless steel shackle / Adjustable wall mount bracket / U bracket / Wheels |                |   |   |   |                       |                 |   |                  |                 |                |  |
| Dimensions(W×H×D)                          |            | 200×379×215 mm  | 200×551×215 mm | 256×424×274 mm                                  | 321×530×333 mm  | 342×586×348 mm                                  | 432×675×415 mm        | 480×1150×540 mm | 458×506×606 mm  | 510×625×660 mm   | 1006×458×606 mm | 984×625×660 mm |  |
| Net Weight                                 |            | 7.3Kg   | 10.5Kg         | 11.5Kg  | 17.1Kg  | 21.0Kg  | 26.7Kg                | 56.0Kg          | 38.7Kg  | 50.6Kg           | 70.0Kg          | 91.0Kg         |  |
| Technical Support & After-sales Service    |            | Global application support team   |                |   |   |   |                       |                 |   |                  |                 |                |  |