

BAG END

PORTABLE SERIES

QUARTZ-R

S P E C I F I C A T I O N S



SYSTEM COMPONENTS

Enclosure:

18 mm 13-ply birch plywood

Low Frequency Transducers:

4 - 18" INFRA cone
3" Voice coil
120 oz. Magnet

Input Connectors:

2 - Connector plates with:
Dual Banana and Neutrik
Speakon
Custom connector
configurations available

Grille:

14 Gauge black powder
coated perforated steel in an
extruded aluminum frame with
weather seal

Standard Hardware:

8 - Recessed handles
4 - 3 1/2" Casters
2 - 35 mm Pole mount adapters
16 - Machined aluminum
speaker mounting clamps
4 - UHMW polyethylene feet

Optional Hardware:

Rigging points

ACOUSTIC AND ELECTRICAL

System Type:

4 - Infrasub sealed chambers
(3 ft³ each)

Impedance:

2 inputs; 4 Ω each input

Crossover Network:

Requires INFRA Integrator

Typical Crossover Frequency:

80 Hz

Frequency Response:

60 Hz to 250 Hz ± 3 dB

w/External Infra Integrator
18 Hz to 65 Hz ± 2 dB

Sensitivity:

99 dB SPL @ 45 Hz (1W @ 1m)
(for additional information, see
INFRA Speaker Sensitivity
Technical Note)

Power Handling:

2000 W continuous sine wave
2000 W instantaneous peak

PHYSICAL

Finish:

Black Ro-tex™ finish

Dimensions:

40" h x 30" w x 31" d
102 cm x 76 cm x 79 cm
Trapezoidal, 6° taper per side

Weight:

237 lbs.
108 kg

Shipping Dimensions:

45" x 35" x 39"
115 cm x 89 cm x 99 cm

Shipping Weight:

289 lbs.
132 kg

APPLICATIONS:

Concert PA systems

Auditorium Reinforcement

Discotheque Subwoofer

Cinema Subwoofer

QUARTZ-R The QUARTZ-R is a very high output INFRA subwoofer system designed to minimize the space required to obtain extremely high level and high fidelity low frequency output. The QUARTZ-R provides perfectly flat response below 20 Hz when used in **conjunction with the INFRA Integrator**. The QUARTZ-R includes casters, handles, feet and pole mount adapters for support of upper range speakers.

ABOUT INFRASUB TECHNOLOGY Almost all specifications for subwoofer systems are fixated on the frequency response domain. However, the impression of power and quality is equally related to the time domain performance of a system. Because of the long wavelengths of low frequencies, this is particularly true with subwoofers.

Likewise, the maximum SPL is not a very reliable way to judge the impact of a subwoofer. A poor time domain performer will not have the same impact or natural sound as a Time-Aligned™ INFRA system.

The reason that INFRA technology sounds dramatically better than the others is because of their superior time domain performance. The INFRA subwoofer maintains the bass energy in a tight packet, aligned with the upper range signal, providing a greater body impact and a seamless musical connection with the main loudspeakers.

Conventional sub designs perform so poorly in the time domain because designers have used methods that sacrifice the phase response for more control over the frequency response (e.g., steep low pass filter slopes, vented speaker enclosures, and narrow bandwidth systems). With the INFRA technique, we do not degrade the phase response while extending the frequency response.

While the INFRA Dual Integrator does function as the system crossover, it does so without using a low pass filter. Adding a low pass filter, analog or digital, will have a degrading effect on the time domain performance of the INFRA subwoofer. A low pass filter adds signal delay to the sound which varies with frequency. Also, narrowing the pass band increases the influence of the rolloff on both ends of the subwoofer spectrum. The result is the smearing of the arrival times of the low frequency sound components, changing the timbre and downgrading the impact of transient sounds.

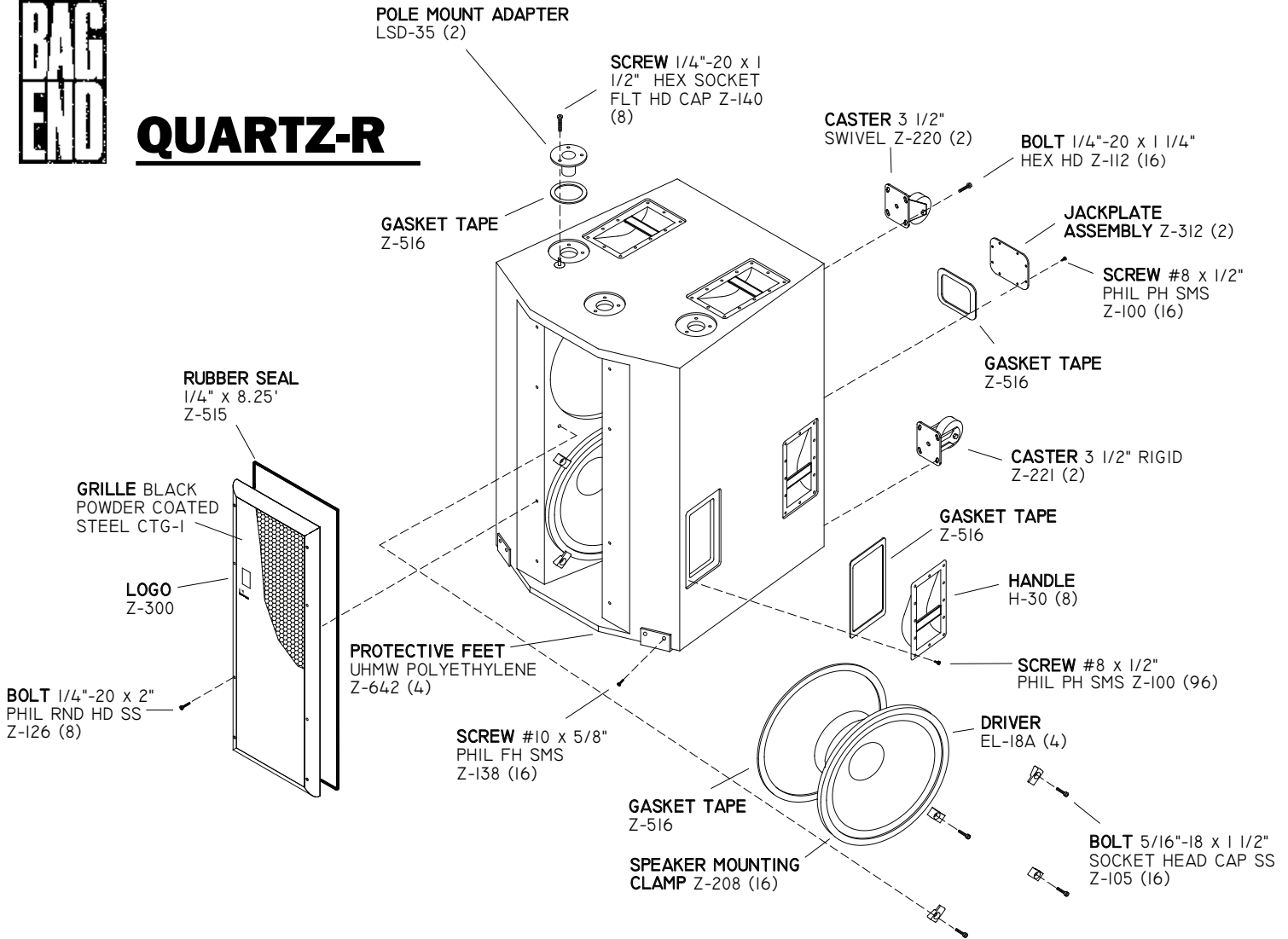
The Bag End INFRA subwoofers are designed as no-compromise, high fidelity reproduction systems. We believe they are the finest subs available, regardless of price.

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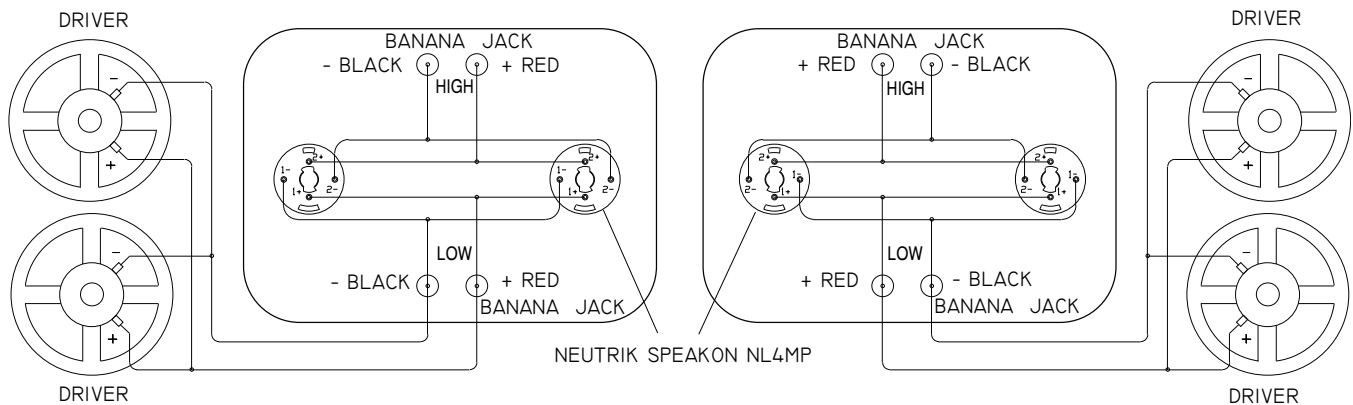


QUARTZ-R



NOT SHOWN:
 SHIPPING SLEEVE Z-635 (2)
 SHIPPING CRATE SET Z-636 (1)

SYSTEM SCHEMATIC



The Neutrik Speakon NL4MP connector is a keyed, high current, four conductor device which allows both the high and low frequency signals for a bi-amped loudspeaker system to run through the same multi-conductor cable. Note that all four conductors on both connectors are wired in parallel, but only two conductors are connected to the drivers in the enclosure. This permits an easy parallel connection to other similar loudspeakers (if your amplifier can handle the low impedance load!) and allows the use of a short "jumper" to connect to the mid/high speakers in a bi-amped system. Banana jacks are also provided on each circuit.

The Quartz has 2 input jackplates, each circuit with an impedance of 4 ohms, each powering 2 parallel 8 ohm drivers.