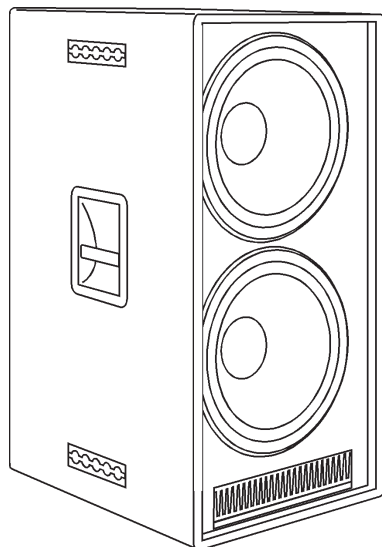


SPL 32

INTEGRATED SELF POWERED
ACTIVE LOW FREQUENCY
SPEAKER SYSTEM



ABOUT THE SPL 32

The ARX SPL 32 is a compact integrated active low frequency speaker and amplifier combination.

Dual 15" (380mm) reflex loaded Low frequency drivers are each driven by their own individual amplifier, providing effortless high power low frequency output.

Its trapezoidal, arrayable layout is designed to provide extended low frequency from 45 Hz to 120 Hz in flown or ground stacked multi-cabinet speaker systems.

The dual onboard amplifiers are controlled by a 24dB per octave active crossover plus our transparent ISC system protection.

The all plywood cabinet tapers to the rear at an angle of 7½°, and features a heavy duty steel mesh protective grille. It is finished in multiple textured coats of catalysed polyurethane. Steel handles are provided for easy cabinet handling.

Designed as a complementary sub bass cabinet for SPL30 arrays, the SPL 32 can easily be used with other speaker systems. Since its control electronics and amplifier are built-in, the SPL 32 is the perfect add-on when more low frequency output is required - for any system!

All that's required to vary the system setup are some patch leads and an AC power feed.

It is supplied 'ready-to-work', with flying track and rear angling points fitted as standard.

Applications:

Low Frequency enhancement of

- Concert Sound Reinforcement
- Auditorium Installations
- Dance Clubs
- Houses of Worship
- Theatre and Film
- Corporate A/V

Features:

- Fully arrayable Low Frequency amplifier/speaker combination
- High power and low distortion provide tight, controlled bass
- Incorporates ISC system protection
- Easy, flexible setup - just connect a signal and AC power

INSIDE INFORMATION

The amplifiers inside the SPL 32 use existing proven analog amplifier technology for predictable operation in all professional applications.

Its transformer based power supply and Mosfet drive circuitry both enable a reduced parts count for long term reliability. Plus, with their inherent self regulation, Mosfets are accepted as being the most thermally reliable and predictable amplifier output stage currently available.

The SPL 32's unique amplifier heat exchanger provides reliable, consistent heat dispersion even at maximum SPL.

BENEFITS

The acoustic and practical benefits of the SPL 32's amplifier/speaker combination are many:

- Improved speaker response. The closely coupled design delivers greater actual power at the speaker and improves the damping factor.
- There is no power loss caused by long runs of loudspeaker cable, which can typically be 30 meters (100') or more. All the amplifier power is delivered to the speaker.
- Reduced number of connections contributes to inherent low noise, eliminates mis-patching and reduces the possibility of ground loops.

OTHER FEATURES

- L and R mix to mono built in. With separate inputs and loop through outputs for Left and Right channels,

the SPL 32 needs no special setting up when run in a mono Sub configuration.

- Phase Switch and Level control on rear panel for compatibility with existing systems
- Interactive System Control, our transparent speaker protection system, keeps the SPL 32 functioning well within the drivers' Safe Operating Area at all times
- Locking AC power connectors. By using the Neutrik PowerCon design, the power connector locks to the cabinet, avoiding the problem of a connector vibrating loose during a performance.
- Auxiliary Audio Loop out, to connect the signal chain to multiple SPL 32 cabinets.
- Auxiliary AC Power output, so that systems can be powered in a serial/daisy chain layout, thus reducing the cabling required.

To sum up, the ARX SPL 32 successfully combines state of the art speaker design with practical, proven amplifier technology. It delivers a compact active low frequency speaker/amplifier package with the dynamic impact and transparent audio that today's audiences expect.

Every ARX speaker system provides innovative solutions designed to deliver ultimate audio reproduction.

Our integrated self powered speaker systems, like every audio product we make, have been engineered for consistent, flawless long-term performance.

Architects' and Engineers' Specifications

The speaker system shall be an active low frequency system powered by dual internal power amplifiers integrated by an onboard 24dB Linkwitz Riley crossover at 120 Hz.

The frequency response of the system shall be 45Hz - 120Hz \pm 4dB.

The loudspeakers shall be 2 x Low Frequency 15" 380mm 8 ohm driver. Dispersion shall be consistent with that of existing low frequency devices.

The amplifier shall be 2 channels of 400 Watts RMS 8 ohms each. The amplifier type shall be a Lateral MosFet design and the THD shall be <.01%.

The Highpass filter shall be -3dB down@ 45Hz, and shall also be 24dB Linkwitz Riley type

Loudspeaker protection shall include anti-clipping circuitry, relay muted input, relay switched output sensing DC and RF error.

There shall be Left and Right 3 pin Female XLR Input connectors, polarity Pin 2 +, Pin 3 -, Pin 1 Ground, and the Input Impedance shall be 44K Balanced (electronic), with a nominal input level of 0dB for nominal rated amplifier output.

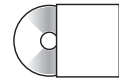
There shall also be corresponding 3 pin Male XLR Input Loop Connectors, polarity Pin 2 +, Pin 3 -, Pin 1 Ground for continuation of the input signal(s) to other parts of the system. There shall also be a subwoofer volume control and a 180° Phase Reverse switch on the input panel.

Maximum SPL shall be 134 peak, 126 continuous. AC Power input shall be preset at either 110V/220V/240V 50/60Hz. The AC Power Input shall be a Neutrik PowerCon type NAC 3 FCA, and the AC auxiliary output shall be a Neutrik PowerCon type NAC 3 FCB. AC Power protection shall be provided by a user resettable external circuit breaker. Maximum AC Wattage shall be 1200 VA (1200 Watts) and the transformer type shall be Toroidal.

The integrated self powered low frequency speaker system shall be the ARX SPL 32

SPL32 Specifications

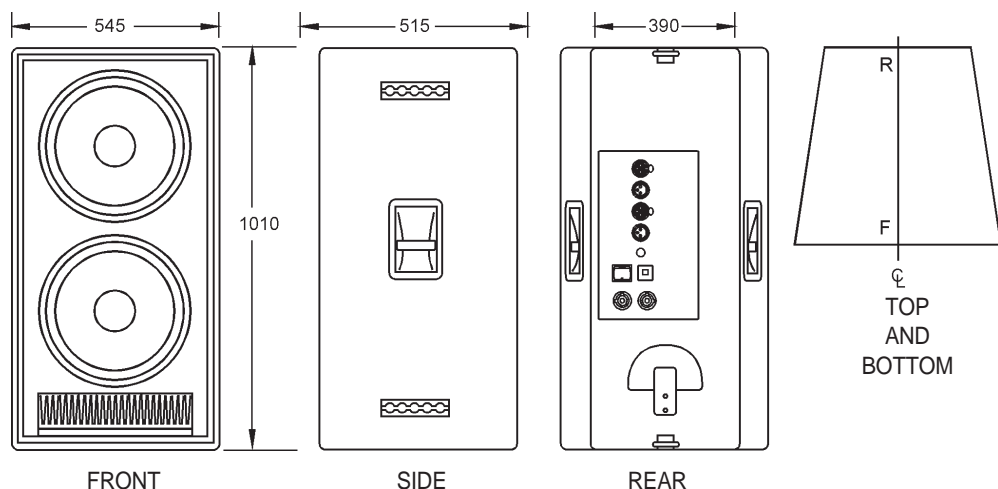
| | |
|-------------------------------|---|
| Frequency response | 45Hz - 120Hz \pm 4dB |
| Loudspeaker type | Reflex loaded low frequency design with 2 x 15" (380mm) 8 Ohm drivers |
| Size | 1010H x 545W x 515D, 7.5° taper to back |
| Weight | 75Kg |
| Input Connectors | 2 x 3 pin Female XLR, polarity Pin 2 +, Pin 3 -, Pin 1 Ground |
| Input Loop Connectors | 2 x 3 pin Male XLR, polarity Pin 2 +, Pin 3 -, Pin 1 Ground |
| Input Impedance | 44K Balanced (electronic) |
| Nominal input level | 0dB for nominal rated amplifier outputs |
| Sub Level Control | -10dB to +6dB, detented for 0dB |
| Phase Reverse | Normal or 180° reversed |
| Crossover Frequency | 120Hz |
| Crossover Type | 24dB Linkwitz Riley Filter type |
| Highpass Filter | -3dB @ 45Hz 24dB Linkwitz Riley |
| Maximum SPL | 134 peak, 126 continuous |
| Amplifier power | LF 400 Watts RMS 8 ohms, 575 peak |
| Amplifier type | Lateral MosFet |
| THD | <.01% |
| Loudspeaker protection | ISC amplifier anti-clipping circuitry Relay muted input Relay switched output sensing DC and RF error |
| AC Power | 110V / 220V / 240V 50 / 60Hz |
| AC Power Input | Neutrik PowerCon type NAC 3 FCA |
| AC Power Loop | Neutrik PowerCon type NAC 3 FCB |
| AC Power protection | User resettable external circuit breaker |
| AC Wattage Max | 1200 VA (1200 Watts) |
| Transformer type | Toroidal |



Specifications available on CD ROM



Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.



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