

## PRESS RELEASE

### Stoll Audio launches the Stoll IL 3500 Infralow



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Stoll Audio is introducing the Stoll IL 3500 Infralow which may be used as a system subwoofer or as an infralow subwoofer with an electronically adjustable lower cutoff frequency of down to 8 Hz. The minimisation of the group delay time in the lower frequency range makes for an enhanced time- and phase-correct reproduction over its audible range. The dual transient-compensated design featuring a push-pull superlinear configuration allows a low-distortion operation of the four 18" woofer chassis. Even a single Stoll IL 3500 Infralow may be used either as an omnidirectional radiator or as a directional radiator. Due to its high performance yield and its modest dimensions, the Stoll IL 3500 Infralow is also perfectly suited for bass arrays. The Stoll IL 3500 offers a power handling of 3,000W/6,000W (nominal/programme) and achieves a sound pressure level of 124 dB at 20 Hz in paired operation.



*Fig.: Stoll IL 3500 Infralow*

Stoll Audio is launching the Stoll IL 3500 Infralow. It will extend our subwoofer range (Stoll XTL 2700 Low Extender and Stoll SL 3000 Sublows) in terms of acoustic output as well as its abyssal sonic depth.

On the one hand the Stoll IL 3500 Infralow can be used as a system subwoofer in connection with the loudspeakers made by Stoll. Of course it can also be used as a supplement to systems from other manufacturers. However, in combination with the Stoll Infralow Controller the Stoll IL 3500 Infralow can also be used as an infralow woofer with an electronically adjustable lower cutoff frequency of down to 8 Hz.

### **Cutting-edge technology and engineering**

The Stoll IL 3500 Infralow is equipped with four high-performance 18" drivers of the most advanced design. The dual transient-compensated push-pull design allows a low-distortion operation. Due to the superlinear configuration the four woofer chassis, all of which radiate to the outside, can translate their cone excursion of more than  $\pm 30$  mm into maximum sound quality. Owing to its braced cabinet with optimised interior acoustics the Stoll IL 3500 Infralow can be used far beyond 100Hz while still offering perfect sound quality.

### **Accurate bass response by delay reduction in the audible sub range**

Owing to its lower cutoff frequency of 8 Hz and the closed cabinet design, the Stoll IL 3500 Infralow excels in a very precise bass reproduction. The minimisation of the group delay time in the lower frequency range makes for an enhanced time- and phase-correct reproduction impossible to achieve with conventional bass reflex technology.

### **Multifunctional: Spherical radiator, directional radiator and array**

Owing to its high performance yield, the modest dimensions and the special alignment and drive of its chassis, the Stoll IL 3500 can also serve perfectly as a directional radiator and in bass arrays. The use of directional subwoofers and arrays results in a better acoustic image and an ideal sound dispersion through less room excitation and lower interferences. Another positive effect is the better feedback control on stage and lower emissions.

Even a single Stoll IL 3500 may be used either as an omnidirectional radiator or as a directional radiator. In order to achieve a defined directivity, the Stoll IL 3500 is aligned on its longitudinal axis and driven with a directivity setup in an active 2-way mode.

Using arrays multiplies the possibilities of placing and driving of loudspeaker cabinets. The Stoll IL 3500 Infralow may be stacked either back to back or alternately upon each other or also front to front, whereby each setup will produce its own specific directivity. The use in vertical lines and in special configurations such as directive sub arrays is also possible. Stoll makes the necessary information available to the users in the form of tutorials and setups.

### **Powerful and versatile**

The Stoll IL 3500 can handle 3,000W/6,000W (nominal/programme) and achieves a continuous sound pressure level of 124 dB at 20 Hz in paired operation (with programme load, allowing for 3 dB power compression). The peak power handling is 24 kW. The Stoll IL 3500 Infralow offers two connection panels (each with 1x Speakon-8, 2x Speakon-4) and no less than eight recessed bar handles for optimum handling. A stacking option which is available as accessory can be used for mounting and safety locking the Stoll IL 3500 Infralow, but also as a setup

Schorenweg 51  
CH - 4058 Basel  
Tel. +41 (0)61 691 83 88  
Fax +41 (0)61 691 83 54  
[www.stollaudio.ch](http://www.stollaudio.ch)

option for the Stoll CFR 2610 Convertible. The Stoll IL 3500 Infralow comes complete with a dolly that makes handling easier in mobile operation thanks to its four castors.

## **Uncompromising sound quality with the Stoll CFR 2610 Convertible**

The Stoll IL 3500 Infralow is the ideal low-frequency complement for the Stoll CFR 2610 Convertible. We recommend combining one Stoll IL 3500 Infralow with two or three Stoll CFR 2610 Convertibles each. To do so, the Stoll IL 3500 Infralow may be placed upright using the stacking option and stabilised with the optionally available outrigger, enabling up to three Stoll CFR 2610 Convertibles to be placed on it and operated. By combining these two systems, an uncompromising sound quality is achieved which enthalls even the most discerning users.

## **Technical specifications**

Frequency response: 8Hz-100Hz (Infralow mode)  
Sensitivity: 101db / 2V / 1m  
Dispersion angle: 180° x 180° in the 2  $\pi$  half space (Omni mode)  
Directional pattern operation possible (with 2-way signal drive)  
Power handling: 2x 1500W / 8 $\Omega$  or 1x 3000W / 4 $\Omega$  (nominal)  
2x 3000W / 8 $\Omega$  or 1x 6000W / 4 $\Omega$  (programme)  
Sound pressure level: 135 dB continuous, more than 141dB peak SPL (allowing for 3 dB power compression)  
Impedance: 2x 8 $\Omega$   
Dimensions (H/W/D): 496/1168/982 mm, weight approx. 102 kg (w/o dolly)

*Stoll Audio has been active in the field of electroacoustics for more than 20 years. Our primary business areas are sound reinforcement technology, PA and stage systems, studio monitoring technology, custom-made products as well as engineering and measuring technology. In these areas we offer a broad range of individual integrated concepts for an optimised audio transmission and sound quality. The compact high-performance loudspeakers made by Stoll ensure professional users great audio quality and safety as well as a high degree of flexibility.*

In case of queries and for additional information please contact:

Christian Wanner  
Mobile: +41 (0)79 219 79 22  
E-Mail: [christian.wanner@stollaudio.ch](mailto:christian.wanner@stollaudio.ch)