

PORTABLE DSP BEAM STEERING LINE ARRAYS

PV-LIVE series



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PV-LIVE-SERIES

Portable DSP beam steering line arrays

PARAMETRIC FILTERS (10 X PEQ) DELAY
NOISE GATE LIMITER BEAM STEERING

Mobile DSP speaker systems with **BEAM STEERING** (control of the sound emission in the vertical level by an implemented electronic system with mathematical algorithm) for an extraordinary sound at indoor and outdoor live events, music appearances and much more.

The **digital active speaker system series PV-LIVE** is used wherever music reproduction and speech intelligibility require a professional acoustically designed sound result. Social live events, political meetings, theatre plays, museums, lobbies, theme parks and clubs are places, where the acoustic benefits of the innovative PV-LIVE systems are clearly highlighted – weather in mobile use or in fix installation.

For a highly homogeneous sound distribution with a minimum of acoustic reflections, the system is equipped with **state-of-the-art beam steering technology** – the sound technology of the upper class. Since the vertical angle of the speaker system's reflected beam can electronically be controlled, the sound of PV-LIVE is much more powerful and clearer than the sound of conventional speaker systems which indirectly arrives at the audience as reflection from walls, windows or ceilings and floor.

The **control software** is your access to an **easy installation**. By entering few project parameters, the **system calculates and designs the acoustic beam** for you. For the perfect room equalization **parametric filters (10 x PEQ), delay, limiter, noise gate, volume control** are available in the software.

The speaker system series PV-LIVE is characterized by a **very functional and easy mechanical and electric concept** and ensures a **fast installation** of the system at your event.

The **three components (1 x woofer and 2 x top array segments)**, can be interconnected (plugged) quickly and very easily, so that no additional box tripods or electrical lines are necessary. **All components (top parts and woofer) easily fit into the trunk of a car.**

Models

PV-1 LIVE Mobile array system with beam steering
Model with audio mixer

PV-2 LIVE Mobile array system with beam steering
Model without audio mixer





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The 4 x MIC.-LINE (XLR) input on-board mixer installed in the model **PV-1 LIVE** gives you many connection possibilities for your live events or fixed installations.

The 2 x LINE (XLR, L+R) on-board inputs installed in the model **PV-2 LIVE** make the system a perfect artistic hardware interface to an existing audio mixer. The PV-2 LIVE system can for example be used as a hardware extension to the PV-1 LIVE system or to any other system with a master input mixer on board.

The powerful bass module, assembled with 2 x 8" low frequency chassis, provides a precise reproduction of the basses in the frequency range 30 Hz to 250 Hz, suitable for all music instruments, for speech and music reproduction.

With the support of the audio DSP system, the integrated digital PWM power amplifiers provide the MF-HF 3.5" neodymium system chassis which are used for the frequency range.

*Advantages of
Beam
Steering*

- **Electronic beam steering** (control of the sound emission in the vertical level)
- **Special software for system planning, control and remote monitoring**
- **Customized sound transmission:** perfect and quick adaption of the system to local requirements and easy readjustment
- Sound arrives at the audience with **highest quality, best intelligibility and at a perfect volume level**
- **Precise speech and music reproduction**
- **Highly homogeneous sound distribution**
- **Minimum of reflexions**
- **Systems can be placed not-obtrusive**
- **No mechanics are necessary**
- **Flexible use**
- **Time-saving installation**

More Details - Product descriptions

PV-1 LIVE



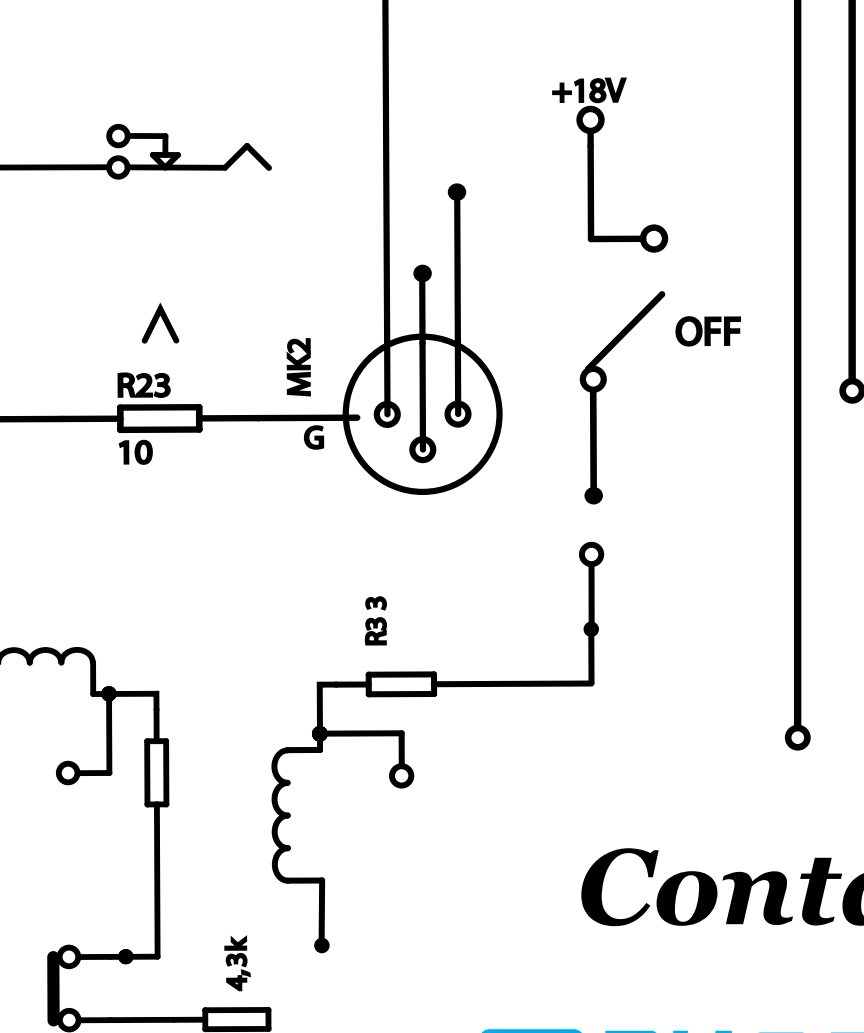
<http://shop.phoenix-pa.com/aktive-dsp-steerable-line-array/369-pv-1-live.html>

PV-2 LIVE



<http://shop.phoenix-pa.com/aktive-dsp-steerable-line-array/370-pv-2-live.html>

Technical data	PV-1 LIVE	PV-2 LIVE
Color	black, matt	
Equalization parametric EQ @ input	10 x PEG 20Hz-21.0kHz, +/-12dB, @ 0.05 oct-3.00 oct	
Equalization EQ	LF/HF (+/-12dB)	
Input sensitivity (MIC.)	MIC. @ DIP position -40 dB/-15 dB	
Input sensitivity (LINE)	LINE @ DIP position -15 dB/+5 dB	
Input limiter	-40dB to +6dB	
DSP channels	8 channel DSP	
Delay (system)	up to 170 meters	
Operating mode	active, class D PWM AMPs	
Assembly (TOP PART)	10 x 3.5" neodymium chassis, 1 x HF magnetostat, 4 x 1" ball HF chassis	
Assembly (SUB)	2 x 8"-LF chassis	
Beam control (V)	+/-45 degrees (from software V2.0)	
Construction	modular [parts A+B+C]	
Audio input	XLR (L+R) channel	
Audio output	4 x XLR with DIP switch (MIC.-LINE) + RCA	2 x XLR (L+R channels) LINE+ RCA
Reflected beam angle (V)	6 degrees to 14 degrees (setting DSP/SOFTWARE)	
Reflected beam angle (H)	120 degrees (-6dB@1kHz-8kHz)	
Dimensions (woofer)	W-365 mm x H-555 mm x D-550 mm	
Dimensions (top piece)	W-108 mm x H-1550 mm x D-117 mm	
Coverage area	20 meters	
Focus distance	from 5 to 50 meters	
Unweighted signal-to-noise ratio	better than 90dB@, software NOISE GATE setting	
Frequency response (sub)	30Hz - 250Hz	
Frequency response (top piece)	170Hz - 18.000Hz	
Housing (woofer + top piece)	multiplex / powder-coated aluminum	
Overall dimension	H-2120 mm	
Weight (top piece)	7.8 kg	
Weight (woofer)	31 kg	
HPF filter	100 Hz, 6 dB/oct.	
Interface	1 x USB, MASTER	
LF/HF-Filter(EQ)	per input@+/-12 dB, 100 Hz, 10 kHz	
Limiter	SLOW/NORMAL/FAST: ja	
Noise Gate [LEVEL/ATTACK/RELAISE]	-90db/-3dB(300us-5000us)(1ms-3000ms)	
Phantom power feed	20 VDC	
Software	from version V2.0	
Voltage supply	230VAC/50-60 Hz, OPTION: 115 VAC	
System power (sub)	1 x 250 Watt/sine	
System power (top piece)	8 x 20 Watt/sine	



Contact



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