

 **WERSI**  
Distributed by **MUSICSTORE**  
**V  C A L I S 120**



**VOCALIS 120**  
**ACTIVE SPEAKERS**

### Safety Instructions:



#### Caution!

The Vocalis speakers operate via power supply. Use only the supplied power cord. To reduce the risk of electrical shock, do not open the back plate under any circumstances. The unit contains no user-serviceable parts. Repairs may be only carried out by qualified personnel.

To reduce the risk of fire or electric shock, do not allow water or liquids to come in contact with the device. Do not place objects filled with liquids, such as Vases, cups or bottles of beer on the device.

For safe operation, please follow these guidelines:

1. Read these instructions carefully and store in a safe place.
2. Follow the instructions and safety precautions.
3. Clean the device only with a dry cloth.
4. Do not place the unit in the vicinity of heat sources (radiators etc.)
5. Do not operate the unit in damp areas, such as in bathrooms or near a pool.
6. Never remove the earth contact (PE) on the cable or the power inlet.
7. Place the cable in such a way that it is protected from sharp corners and pressure.
8. Only use accessories that are suitable according to the manufacturer.
9. The speakers should only be in operation with an intact ground wire connected.
10. Never use damaged power adapters and cables
11. Unplug the power cord during lightning storms and when the equipment is not in use for extended periods.
12. Replace defective fuses only with fuses of identical quality.

Dear WERSI customers,

we are glad that you have decided to purchase a pair of Vocalis speakers. In order to ensure long time enjoyment with our product, please read these instructions thoroughly and register (if desired) with the enclosed postcard to receive information about new product updates and follow-on products so you are always up to date.

With the Vocalis you have purchased a high-quality speaker that can be offered at an exceptionally low price, thanks to optimized manufacturing methods and short distribution channels. Nevertheless, the components were hand selected and each speaker is tested before leaving the factory.

A special feature of the Vocalis series are the mid and low-range speakers with a small diameter, which set themselves apart with quick response characteristics allowing them to very naturally reproduce transient sounds. The ribbon - tweeter has a very low mass, allowing it to produce a resolution, which is usually found only in much more expensive speakers.

With the D'Appolito design principle of the mid-high range, the reflections from the floor and ceiling are significantly reduced in comparison to other design principles. Nevertheless, additional absorption or diffusion modules on the walls can help to minimize disruptive room effects. Respective acoustic modules are available at Music Store.

Thus, the Vocalis is perfectly suited for use in the living room as well as for hi-fi enthusiasts, as a fully-fledged studio monitor with neutral sound reproduction or even as an acoustic transducer for any high-quality acoustic audio playback source. Let your imagination run wild and discover ever new possibilities...

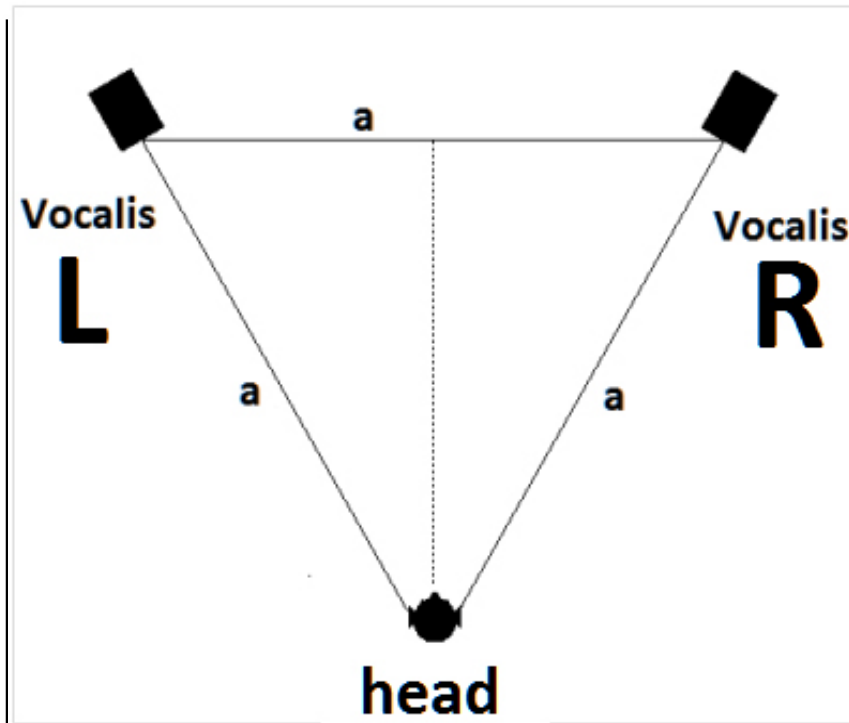
Naturally of course we provide an addition to the statutory warranty with our manufacturer's warranty of three years after purchase the date. In the unlikely event of technical problems with the Vocalis speakers, please contact us at:

WERSI Zentral Service Deutschland,  
represented by:  
Music Store professional GmbH, Werkstatt  
Istanbulstraße 22-26  
51103 Köln  
Germany

## 1. Setup & Installation

When installing the Vocalis, please adhere to the following conditions to optimize the performance:

- a) Place the Vocalis speakers in such a way that the distances between the two speakers and from each speaker to the listener are all equal, so that the corresponding angles are also equal; forming an equilateral triangle. This is known as a stereo-triangle:



Ensure that the distances (a) are all equal, and the angles of the speakers are also equal.

- b) Note the distances from walls and corners. Reflections from corners increase the bass response of the speakers. If this is not desired, please provide for an appropriate distance between the wall and speakers.
- c) The height of the ribbon tweeter (the rectangular element between the two speakers) should preferably be at approximately ear height in a sitting position.

Please note that the natural acoustics of a room has a significant impact on the overall sound. The ways and means to optimize the acoustics in a room are diverse. For more information and help, please contact your WERSI dealer.

## 2. Operating elements:

The operation of the Vocalis is very simple. Since this is an active speaker, the amplifier module is already integrated. The speaker needs only an operating voltage as well as a signal. When first connecting the speakers, we propose a sequence of connections in order to avoid interference of an operating fault:



First turn the LEVEL knob (1) anti-clockwise to min (minimum). This will prevent an unwanted level jump at turn-on.

Via the LINE-IN (2), the signal to be amplified is supplied. This can be a 6.3mm jack (balanced / unbalanced) or XLR signal (balanced).

Then connect the supplied power cable with the power inlet of Vocalis (3) first, and then plug into the power supply socket.

Step 4; turn on the speakers using the "power" switch (4). The switch glows faintly reddish, indicating the operating status.

The fifth and final step; turn the "level" knob (5) - clockwise - slowly back to the desired volume.

By using the "Tweeter Attenuation" it is possible to reduce the volume of the ribbon tweeter by 2dB or 4dB. The Line-Out socket can be used to loop-through other Vocalis speakers.

In the upper panel the following signal indicators are found:

Power On = Mains voltage is on

Signal OK = A signal is present at the input.

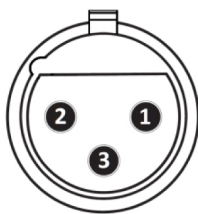
Peak / Limit = The amplification reserves of the Vocalis have been reached. The built-in Limited has reduced the input signal, to prevent the power amp from over-loading.

Reduce the volume (1), until the Peak / Limit indicator only blinks rarely

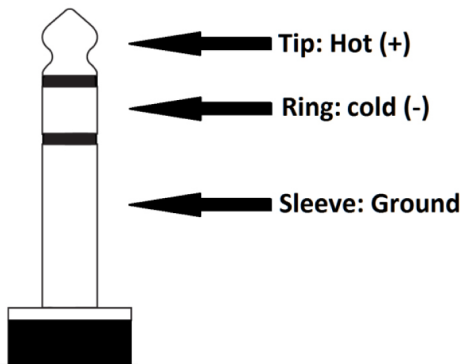
### 3. Technical Specifications:

- Active 2.5 way speaker with D'Appolito principle in the mid-high range
- Ribbon HF driver
- Integrated power amp with 120W (rms) and 200W (program) performance
- Frequency Range: 35 Hz – 28kHz (-3dB)
- Input Sensitivity: 400mV
- Built-in Limiter to protect the electronics and driver
- Integrated passive frequency crossover
- Crossover frequency 1 kHz Hz (6dB/Oct) and 2.1kHz with 12/18dB/Oct
- Tweeter - level attenuation by 0, 2 or 4dB (switchable)
- Connection via XLR or Jack (6.3mm, ¼")
- Level controls per speaker cabinet
- Power supply: 220 – 240V AC, 50-60Hz,
- Fuse: 250V, 2A, slow-blow.
- Power consumption: 200VA max.
- Dimensions: 1090 x 222 x 286 cm (H x B x T)

#### Pin Definition:



XLR:  
1 = Ground  
2 = hot  
3 = cold



**Tip: Hot (+)**

**Ring: cold (-)**

**Sleeve: Ground**

In case of an mono jack connected, the ring and sleeve contacts will be bridged.



#### 4. Speaker "Running In"

Like the engine of a car a speaker diaphragm must also be "run-in". Through this "burn-in" process the speaker beads and other components will receive their elasticity at which they will later normally operate. The beads are rolled and smoothed. This also improves the overall tone of the Vocalis.

In order to simplify the burn-in process, the Vocalis features a storage medium with a test signal, which optimally stimulates the individual drivers of Vocalis. Play and set test signal to "repeat" for about 48 hours for the best results. Set Vocalis to a medium room volume and position the speakers in front of each other "face to face" about 1 meter apart.

If you have a music collection with a broad range of genres, of course you can also use that to burn-in the Vocalis. However, be sure that enough pieces feature bass-heavy content. This optimally 'warms-up' the membranes.

To reduce the noise emitted into the room during this process, the right channel of the test signal is an inverted phase. This leads to a cross-cancellation of the sound between the speakers. As a result, the sound emission is reduced without reducing the work performed by the membrane. For optimal sound cancellation, set the two speakers about 30cm apart "face to face".

The reduction of the volume level by using a phase inversion while using your own music collection is not possible brought about manually with a phase shifter on one channel.

## 5. Declaration of Conformity, Warranty, Imprint

### CE Conformity Marking

This device meets the standards for the approximation of the laws of the Member States relating to electromagnetic compatibility (RL89/336/EWG, RL73/23/EWG).

### RohS

This device uses lead-free solder and meets the conditions of the RohS directive.

### Disposal Considerations

Under the current policy of the EU Member States adhering to RL2002/96/EU (WEEE - Directive on Electrical and Electronic Equipment Waste), after use this product is to be recycled before disposal.

### Warranty

Every Vocalis speaker is individually tested and subjected to precise functional controls. We guarantee a full three (3) year warranty on this product. Proof of purchase receipt / invoice serves as the proof of warranty. In case of failure please contact the forwarding address. Damage caused by improper use, overloading or caused by the opening of the device is not covered under the warranty and repair costs are subject fee. Compensation claims for damages of any kind, in particular consequential damages caused by improper use are excluded. Similarly, a liability claim to a value beyond that of the Vocalis is strictly excluded. The General Terms and Conditions of Wersi are represented by Music Store Professional GmbH, Cologne, Germany.

### Disclaimer

This documentation reflects the current status of product development. WERSI, respectively Music Store professional GmbH assumes no liability or warranty; explicitly, implicitly or otherwise, to the accuracy or completeness of this manual. In no event will the manufacturer be liable for any form of damage caused by non-function or defect of the device. More particularly, the manufacturer is free of any liability for consequential damages, caused by the use of the product or the result of using the manual.

The names of brands or product names of third parties used in this manual are patented and trademarks and are the property of their respective owners. This applies even if this is not explicitly referenced or given relevant notice in the text.

Product and instructions are subject to the Terms and Conditions of the manufacturer at the current status are subject to change at any time.

WERSI / Music Store professional GmbH, April 2012.

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