



**the
t.bone**

RB100

ribbon microphone

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1 General notes

This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to other users, be sure that they also receive this manual.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

3 Installation and starting up

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.



NOTICE!

Faults or damage to the device

Never try to measure the impedance of the microphone with an ohmmeter. The test voltage would destroy the delicate ribbon.

XLR connection for signal output



A balanced XLR mounting plug is used for signal output. Drawing and table indicate the XLR pin assignment.

1	Ground, shielding
2	Signal (+)
3	Signal (-)

Polar pattern



The 'Figure-8' characteristics of this microphone can be used, e.g., to record two singers simultaneously. It often sounds better than two separate microphones in the same room. But even with only one singer the figure-8 characteristic makes sense, as the proximity effect creates a pleasant, rich bass. The figure-8 characteristic emphasizes the sound source in front and behind the microphone, but attenuates sources, which are arranged laterally to it. Place the microphone about 30 % farther away from the sound source than an equivalent omnidirectional microphone.

The 't.bone' logo on the unit marks the centre of the recording area.

In horizontal direction the microphone does not differentiate too much between different sound sources. Therefore, multiple instruments or singers can be arranged in front of the microphone, without overemphasizing the middle position.

Tips on handling and positioning

Like all ribbon microphones, the construction design makes this unit more sensitive to shock and to direct blowing in than other types of microphones. Protect the microphone against strong air movements, such as can occur with kick drums and guitar and bass amplifiers. To detect strong air movements, simply hold your hand in front of the sound source. If you feel air movement, this place would be too close for the microphone. Try a bigger distance or different angle to the sound source.

We recommend always using a pop filter for vocal and speech recording - not only to attenuate pop noises and sibilants, but also to protect the microphone against too much moisture.

The microphone does not require a power supply. However, you can connect it to a mixer input that provides phantom power, if it is wired correctly.

Also protect the microphone against vibrations during transport. Always transport it well packed inside the included cloth bag and the wooden box.

Don't let the unit drop on the floor. Even one single hard impact can deform the ribbon. The microphone then may seem to be working, but the sound is severely impaired. In this case the device needs professional repair.

4 Technical specifications

Transducer	Electrodynamic ribbon microphone
Ribbon thickness	2.5 μm
Polar pattern	Figure-8
Frequency response	30 Hz ... 15 kHz, ± 3 dB
Sensitivity	-54 dB
Output impedance	$\leq 600 \Omega$
Maximum SPL	148 dB
Rated impedance	$> 1500 \Omega$
Overall length	175 mm
Overall diameter	37 mm
Weight	496 g

Technical specifications

Connection	3-pin XLR
Standard accessory	Microphone holder, wooden box, cloth bag

5 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.



