

OPERATION MANUAL



MKL-111

PROFESSIONAL
MICROPHONE



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ABOUT FACTORY

The Public Joint Stock Company Oktava is the leading Russian manufacturer of studio microphones, telephone and microphone capsules, headsets and hearing aids. The company has long-term experience and has taken a leading position in the field of development and manufacturing of acoustic equipment in Russia.

Being established at the dawn of development of broadcast networks in 1927 in the city of Tula, Oktava became an iconic brand known throughout the world. Gagarin said his famous "Let's go!" in the Oktava microphone. The products are popular all over the world, and even such masters as U2, Sting, Iron Maiden and Radiohead use Oktava microphone products in their work.

SAFETY INFORMATION

- Before using the microphone, carefully read the operation manual.
- Keep the manual in a safe place, accessible for all users.
- Always handover the operation manual to third parties together with the microphone.
- Use the microphone only for its intended purpose in accordance with this manual.
- The liquid can get into the microphone, cause a short circuit in the electronic components or damage the mechanical components.
- Clean the microphone only with a soft, slightly moistened cloth. Solvents or cleaning agents may damage the surface or enter the product.
- Do not expose the microphone to extremely low and extremely high temperatures.
- Do not open the microphone body by yourself. The warranty does not apply to microphones, opened by customers themselves.

OVERVIEW

Microphone MKL-111 is wide-diaphragm capacitor microphone with lamp preamplifier designed for professional studio recordings.

FEATURES

- 1" large-diaphragm condenser capsule:
- 2 gold-plated diaphragm;
- microphone pre-amplifier, made on the radio tube; variable stepped polar response curve; type "omni", "cardioid", "figure-eight";
- robust metal body;
- external power supply included in delivery;
- made in Russia.

APPLICATION

- voice/vocal/chorus;
- recording of solo instruments;
- professional recording studios;
- home recording studios.



DELIVERY INCLUDES

1. Microphone MKL-111.
2. Power supply unit.
3. Shock damper AM-65/27.
4. Cable (5 m).
5. Operation manual.
6. Wood shell case.



SETUP

MICROPHONE INSTALLATION INTO SHOCK MOUNT

1. Screw the microphone shock absorber onto a sturdy, stable stand (Fig. 1).
2. Insert the microphone from above in the inner shock absorber ring and fasten it to the ring with a nut on bottom. To turn the microphone, use the butterfly thumb screw (Fig. 2).

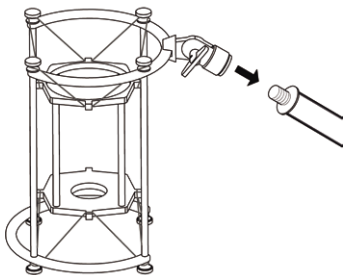


Fig. 1

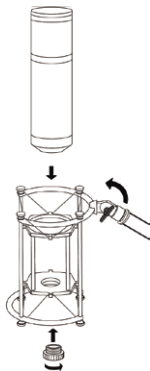


Fig. 2

CAUTION! UNSUITABLE POWER SUPPLY MAY RESULT IN DAMAGE TO THE PRODUCT!

MICROPHONE CONNECTION

1. Connect microphone only to microphone inputs of the mixing console and to the power supply unit PSU-103-01, which is supplied with microphone.
2. The 48V phantom power switch on the mixing console must be turned off.
3. To connect the microphone to the power supply unit PSU-103-01, use the XLR-6 cable included in supply package.
4. To connect the power supply unit PSU-103-01 to the mixing console, use any XLR-3 microphone cable (Fig. 3).

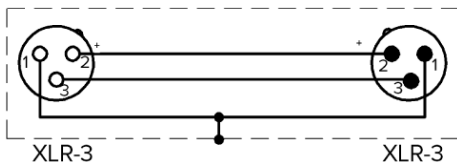


Fig. 3

INSTALLATION

1. Install the microphone on the stand with a microphone clip or shock mount.
2. Connect the microphone to the equipment using a microphone cable.
3. Point the microphone toward the sound source.
4. In order to suppress external noise, make sure that there are no sources of parasitic noise in the microphone active zone (for example, computer fans).
5. In order to extend the life of the microphone, it is recommended to use a pop screen when working with vocalists (Fig. 8).

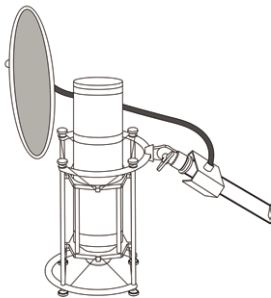


рис. 8

OPERATION AND STORAGE

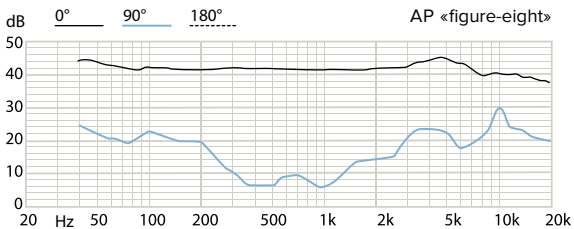
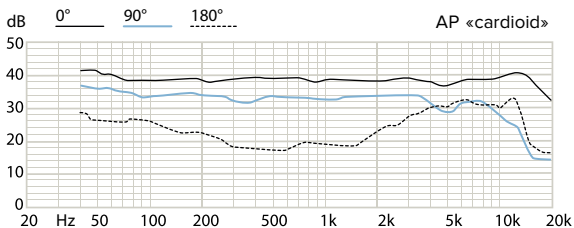
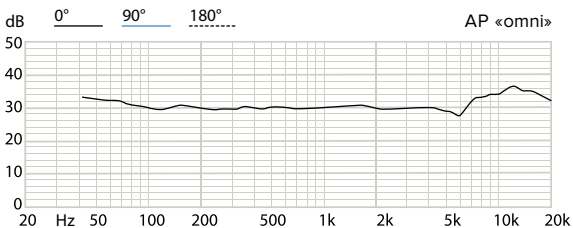
- The microphone is designed for application in enclosed spaces at an ambient temperature of 5 °C to 45 °C and a relative humidity of 93%.
- Do not subject the microphone to sudden shocks or impacts.
- Do not allow water to enter the microphone.
- Do not allow water to enter the microphone.
- Do not use organic solvents (gasoline, dichloroethane, alcohol, etc.) to clean the microphone.
- Store the microphone in a dry, clean and dust-free room at room temperature, using the packing included in the package.



TECHNICAL DATA

Transducer type	Condenser with external polarization
Polar patterns	Circle, cardioid, figure-eight
Acoustic principle	Pressure gradient receiver
Diaphragm diameter	25,4 mm / 1"
Maximum sound pressure level	124 dB
Frequency range	20 Hz - 20000 Hz
Sensitivity at 1000 Hz	18 mV/Pa
Equivalent sound pressure level due to self-noise	22 dBA
Impedance	600 Ohm
Diameter	62 mm
Length	221 mm
Weight	1,8 kg

FREQUENCY RESPONSE



TROUBLE AND COUNTERMEASURE

Condition	Causes	Corrective action
Microphone does not work	The power supply unit or mixing console is not connected to the mains.	Check the connection to the mains.
	The mixing console or the power supply unit is not turned on.	Check the corresponding buttons of the mixing console and power supply unit.
	The microphone is not connected to the power supply unit or the power supply unit is not connected to the mixing console.	Check that the cables are correctly connected from the microphone to the power supply unit and from the power supply unit to the mixing console (see page 9).
Sound distortions	The input sensitivity or preamplification of the subsequent amplifier is incorrectly adjusted.	Decrease the input sensitivity or preamplification of the subsequent amplifier in such a way that there is enough modulation reserve.
	Transmission of the body noise.	Use a suitable shock mount (page 9).
Dull sound	The polar pattern is not taken into account.	Check that the microphone is installed correctly. The microphone must be pointed at the sound source.

MANUFACTURER WARRANTY

- The manufacturer guarantees compliance of the microphone technical characteristics, if the user observes the conditions and rules of operation and storage specified in this manual.
- Guaranteed shelf life — 24 months from the date of manufacture.
- Guaranteed service life — 12 months from the date of delivery to the customer or sale through the retail network within the guaranteed shelf life.
- The manufacturer guarantees a free replacement or repair of a microphone during the warranty period, if it does not comply with the requirements of this manual through the manufacturer's fault.
- No claim for a microphone will be accepted without certificate of sale.
- Please, dispose of the microphone at the local collection point for recyclable materials or at the recycling center after the end of its service life.

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NOTES

ACCEPTANCE CERTIFICATE

unit type

serial number

Manufactured and approved

Chief controller

personal signature

printed name

L.S.

year, month, day

CERTIFICATE OF SALE

unit type

serial number

dealer

signature of seller

printed name

L.S.

year, month, day

THE GUARANTEE CONDITIONS ARE ACKNOWLEDGED AND ACCEPTED

signature of buyer

printed name

WARRANTY CARD

For warranty service (repair) No. 1

Professional microphone MKL-111

No.

product serial number

date of receipt for repair

full name of a person responsible for repairs

L.S. _____

signature

WARRANTY CARD

For warranty service (repair) No. 2

Professional microphone MKL-111

No.

product serial number

date of receipt for repair

full name of a person responsible for repairs

L.S. _____

signature

WARRANTY CARD

For warranty service (repair) No. 1

Professional microphone MKL-111

No.

product serial numbe

date of receipt for repair

reason for repair

seller

L.S. _____

signature of seller



information on performed repairs

L.S.
of repair organization

signature, printed name

address of owner

full name and signature of owner



WARRANTY CARD

For warranty service (repair) No. 2

Professional microphone MKL-111

No.

product serial numbe

date of receipt for repair

reason for repair

seller

L.S. _____

signature of seller



information on performed repairs

L.S.
of repair organization

signature, printed name

address of owner

full name and signature of owner





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