SONY

3-776-705-**16**(1)

Electret Condenser Microphone

Operating Instructions
Инструкция по эксплуатации
Пайдалану нұсқаулары

ECM-66B

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3776705160

English

Before operating the unit, please read this manual thoroughly and retain it for future reference.

For the customers in Europe

This product is intended for use in the following Electromagnetic Environments: E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors), E4 (controlled EMC environment, ex. TV studio).

ATTENTION

The electromagnetic fields at the specific frequencies may influence the sound of this unit.

For the customers in the U.S.A.
SONY LIMITED WARRANTY - Please visit http://www.sony.com/psa/warranty for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

For the customers in Canada
SONY LIMITED WARRANTY - Please visit http://www.sonybiz.ca/pro/lang/en/ca/article/resources-warranty for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

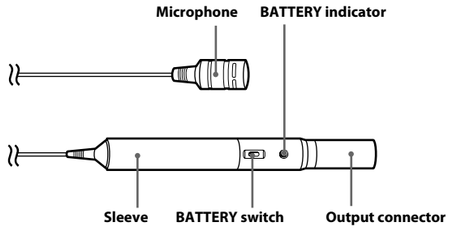
For the customers in Europe
Sony Professional Solutions Europe - Standard Warranty and Exceptions on Standard Warranty.
Please visit https://pro.sony/en_GB/support-services/warranty/support-professional-solutions-europe-standard-product-warranty for important information and complete terms and conditions.

For the customers in Korea
SONY LIMITED WARRANTY - Please visit http://bpeng.sony.co.kr/handler/BPAS-Start for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

Features

- Small, lightweight microphone can be used inconspicuously, without being aware of its presence.
- The microphone can be powered from an internal R6 (size AA) battery or external power supply.
- Supplied with two types of holder clips, for use according to the situation, and a convenient compact storage case.

Names and Functions of Parts



Supplied accessories

Wind screen



Horizontal holder clip



Vertical holder clip



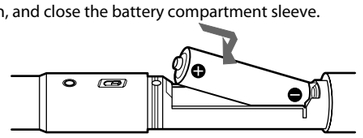
Notes on Use

- Microphones are delicate. Do not drop, hit, or subject it to excessive shock.
- Avoid extended usage or storage in high humidity or temperatures above 60 °C (140 °F).
- If acoustic feedback occurs during use (a howling sound is heard from the speakers), point the microphone away from the speakers or increase the distance between the microphone and the speakers.
- Microphone and recording instruments should be turned on 10 minutes before they are actually used. This assures stable performance of the microphones and instruments.

Operation

Inserting the battery

Open the battery compartment by turning the sleeve counterclockwise. Insert an R6 or LR6 (size AA) battery into the battery compartment in the correct polarity orientation, and close the battery compartment sleeve.



Positive terminal ⊕ **Negative terminal ⊖**

Turning on the microphone

To operate the microphone using the internal battery, set the BATTERY switch to ON. Check that the indicator momentarily lights up and then turns off.

Checking the battery voltage

Set the BATTERY switch to OFF, then wait for more than 5 seconds, and then set the switch to ON. If the indicator does not light up momentarily, the battery voltage is too low to operate the microphone. Replace with a new battery.

Notes

- If the battery is not installed in the correct orientation, the battery may rupture.
- Use a new battery as often as possible, and insert it with the correct ⊕ / ⊖ orientation.
- If the battery voltage is low, the sensitivity drops and noise and distortion will occur.

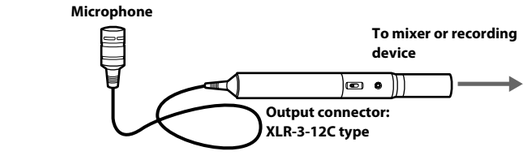
Notes on battery

If the battery is incorrectly treated, battery leakage or explosion may result. Observe the following instructions.

- Insert the battery with correct orientation (⊕ and ⊖).
- Do not attempt to charge the battery.
- If you don't use the microphone for an extended period of time, remove the battery from the battery compartment.

If battery leakage has occurred, wipe the battery compartment carefully, then replace the battery with a new one.

Output connection

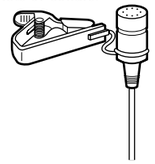


Typical use cases

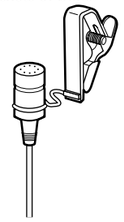
Using a holder clip

Expand the ring portion of the holder clip and insert the microphone to attach the microphone to a supplied holder clip. Attach the holder clip to clothing or other object so that the microphone is horizontal or vertical.

- **Horizontal holder clip**
  Attach to the edges of jackets or collars.



- **Vertical holder clip**
  Attach to the top of shirt pockets or belts.



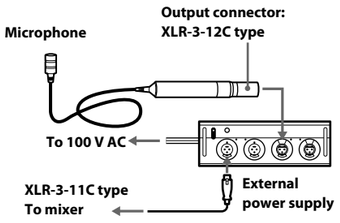
To reduce pop noise

To reduce the effects of wind or breathing, attach the supplied wind screen to the microphone.

External power supply connection

The microphone can be powered from an internal battery or external power supply. When the output connector is connected to an external power supply, the power circuit automatically switches to the external power supply. To use the internal battery as a backup power source in case of a power failure, check that a battery is inserted in the battery compartment and leave the BATTERY switch set to ON. If the backup power source is unnecessary, set the BATTERY switch to OFF or remove the battery from the battery compartment.

- Use a Sony AC power supply or equivalent product for the external power supply.



Specifications

General

Type	Electret condenser microphone
Power supply	R6 or LR6 (size AA) battery (1) 24 V to 48 V DC external power supply (IEC 61938 P24/P48)
Output connector	XLR-3-12C type
Microphone cable	ø2.3 mm × 3 m (ø$^{3}/_{32}$ in × 10 ft)
Dimensions	Microphone: ø10.6 mm × 24.2 mm (ø$^{7}/_{16}$ in × $^{13}/_{32}$ in) Power supply: ø20 mm × 163 mm (ø$^{13}/_{16}$ in × 6 $^{1}/_{2}$ in)
Mass	Microphone: Approx. 7 g (0.25 oz) Power supply: Approx. 160 g (5.6 oz) (including cable, excluding battery)

Performance

Frequency response	70 Hz to 14,000 Hz
Directivity	Unidirectional
Output impedance	100 Ω ± 20%, balanced
Sensitivity (±2 dB deviation)	–50 dB (0 dB = 1 V/Pa, 1 kHz)
Signal-to-noise ratio	65 dB (typ) (IEC 179 A-weighted, 1 kHz, 1 Pa)
Inherent noise	29 dB SPL (typ) (0 dB SPL = 2 × 10^{-5} Pa)
Wind noise*	50 dB SPL or less (with wind screen)
Maximum input sound pressure level	130 dB SPL (typ) (input level for 1% output signal waveform distortion at 1 kHz, converted into equivalent sound pressure level: 0 dB SPL = 2 × 10^{-5} Pa).
Dynamic range	101 dB (typ)
Operating temperature	0 °C to 60 °C (32 °F to 140 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)

* Wind noise is the value measured by applying a wind velocity of 2 m/s (6.6 ft/s) to the microphone from all directions. The noise output mean value is converted to the equivalent input sound pressure level (0 dB SPL = 2 × 10^{-5} Pa).

Power requirements

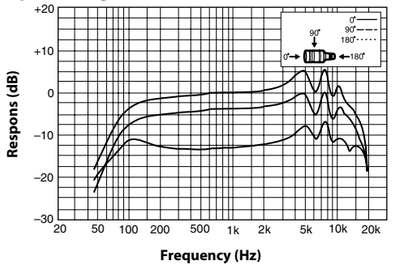
Normal operating voltage	1.5 V (battery operation)
Minimum operating voltage	Approx. 1.1 V (battery operation)
External power supply	24 V to 48 V DC
Current consumption	3.0 mA or less (with battery) 2.0 mA or less (with external power supply)
Battery life	Approx. 300 hours (R6 manganese battery) Approx. 400 hours (LR6 alkaline battery)
Supplied accessories	Carrying case (1) Horizontal and vertical holder clip (1 each) Wind screen (1) Operating Instructions (1) Warranty booklet (1)

Design and specifications are subject to change without notice.

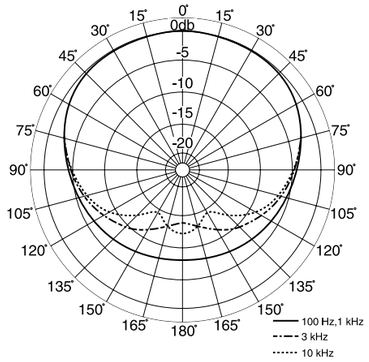
Note

- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
- SONY WILL NOT BE LIABLE FOR CLAIMS OF ANY KIND MADE BY USERS OF THIS UNIT OR MADE BY THIRD PARTIES.
- SONY WILL NOT BE LIABLE FOR THE TERMINATION OR DISCONTINUATION OF ANY SERVICES RELATED TO THIS UNIT THAT MAY RESULT DUE TO CIRCUMSTANCES OF ANY KIND.

Frequency response diagram



Directivity



Русский

ВНИМАНИЕ
Электромагнитные поля определенных частот могут влиять на звук данного аппарата.

Электретный конденсаторный микрофон

Сони Корпорейшн
1-7-1 Конан Минато-ку Токио, 108-0075 Япония Импортер на территории стран Таможенного союза АО «Сони Электроникс», Россия, 123103, Москва, Карамышевский проезд, 6

Сделано в Японии

Этот продукт предназначен для телевещания.

Условия краткосрочного хранения:
Хранить в темных, сухих, чистых, вентилируемых помещениях, изолированными от мест хранения кислот и щелочей.
Хранить вдали от источников тепла и влаги во избежание конденсации.
- Хранить при температуре от -20°C до +60°C.
- Хранить при относительной влажности не более 70%, без образования конденсата.

Срок хранения не установлен.

Транспортировать в оригинальной упаковке, во время транспортировки не бросать, оберегать от падений, ударов, не подвергать излишней вибрации.

Если неисправность не удается устранить следуя данной инструкции – обратитесь в ближайший авторизованный SONY центр по ремонту и обслуживанию.

Год выпуска: см. информационную табличку на изделии или упаковочной коробке.
Пример (2019-01): 2019: год. 01: месяц

Реализацию осуществлять в соответствии с действующими требованиями законодательства. Отслужившее изделие утилизировать в соответствии с действующими требованиями законодательства.

Габариты	Микрофон: ø10,6 мм × 24,2 мм Блок питания: ø20 мм × 163 мм
Вес	Микрофон: прибл. 7 г Блок питания: прибл. 160 г (с кабелем, без элемента питания)
Аксессуары из комплекта поставки	Кейс для переноски (1) Горизонтальная и вертикальная защелки держателя (по 1) Ветрозащитный экран (1) Инструкция по эксплуатации (1) Гарантийный талон (1)

Қазақстан

НАЗАР АУДАРЫҢЫЗ!
Белгілі бір жиіліктегі электромагниттік өрістер құрылғының дыбысына әсер етуі мүмкін.

Электреттік конденсаторлық микрофоны

Өндіруші: Сони Корпорейшн
Өндіруші мекенжайы: 1-7-1 Конан Минато-ку Токио, 108-0075 Жапония
Кеден одағы жеріндегі шетелден әкелуші
«Сони Электроникс» АҚ, Ресей, 123103, Мәскеу, Карамышевский өтпе көшесі, 6

Жапонияда жасалған

Бұл өнім хабар таратуға арналған.

Пайдалану барысында сақтау талаптары: Өнімдер қышқылдар мен сілтілерге арналған сақтау орындарынан оқшауланған қараңғы, құрғақ, таза, жақсы желдетілетін жерлерде сақталуы керек.
Конденсацияны болдырмау үшін, ыстық және ылғал көздерінен алыс сақтаңыз.
- Сақтау температурасы: -20°C – +60°C.
- Сақтау ылғалдылығы: конденсациясыз 70% мәнінен аспайтын.

Сақтау мерзімі бекітілмеген.

Түпнұсқалық орамда тасымалдау керек, тасымалдау кезінде лақтыруға болмайды, құлаудан, соққылардан қорғау керек, шектен тыс дірілге ұшыратпау керек.

Егер осы нұсқаулыққа сүйене отырып, ақаулықты жою мүмкін болмаса, ең жақын заңды тіркелген SONY жөндеу және күтіп ұстау орталығына хабарласыңыз.

Шығарылған жылы: өнімдегі немесе картондағы атау тақтасын көріңіз.
Мысалы (2019-01): 2019: жылды көрсетеді. 01: айды көрсетеді.

Сатуды күшінде тұрған заң талаптарына сәйкес жүзеге асыру керек. Қызмет мерзімі біткен бұйымды күшінде тұрған заң талаптарына сәйкес залалсыз кәдеге асыру керек.

Өлшемдері	Микрофон: ø10,6 мм × 24,2 мм Қуат көзі: ø20 мм × 163 мм
Массасы	Микрофон: шамамен 7 г Қуат көзі: шамамен 160 г (кабельді қоса, бірақ батареяны санамағанда)
Бірге берілген аксессуарлар	Алып жүру жәшігі (1) Көлденең және тік ұстағыш қысқыш (әрбірінде 1) Алдыңғы әйнек (1) Пайдалану нұсқаулары (1) Кепілдік кітапшасы (1)