

Helmet Mounted Wireless Headset

Reference Guide



NYSNO-10

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About the manual

The following three types of manuals are available:

Operating Instructions



Reference Guide (this manual)



Help Guide (web manual)

For details on how to operate or troubleshoot this unit, refer to the Help Guide.

You can read this manual on your computer or smartphone.

URL:
<http://rd1.sony.net/help/nysno/nysno10/en/>

Two-dimensional code:



Warning

To reduce the risk of fire, burns or bursting, do not open, crash, short, heat 60 °C (140 °F) or above, or incinerate.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices.

There is no proof, however, that these low power wireless devices are absolutely safe.

Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used.

Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects.

Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

The model has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.

Notes on water resistant and dust proof features (Read before using NYSNO-10)

Water resistant and dust proof performance

The main unit and the remote control have a water resistant specification of IPX5¹ as specified in "Degree of protection against water immersion" of the IEC60529 "Ingress Protection Rating (IP Code)", and a dust proof specification of IP6X² as specified in "Degrees of protection against solid foreign objects."

Liquids that the water resistant performance specifications apply to

Applicable:	fresh water, tap water, perspiration
Not applicable:	liquids other than the above (soapy water, water with detergent or bath agents, shampoo, hot spring water, pool water, sea water, etc.)

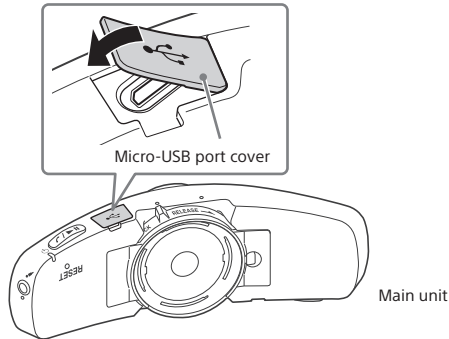
¹ IPX5 equivalency: The main unit, with the micro-USB port cover closed, has been tested under and maintains its operability under the following test conditions: When exposed to direct streams of water from any direction where approximately 12.5 L / min. of water is supplied for more than 3 minutes from a distance of approximately 3 m (9 ft 10 5/8 in) using a nozzle with an inner diameter of 6.3 mm (1/4 in).

² IP6X equivalency: The main unit, with the micro-USB port cover closed, has been tested to and continues to block dust after stirring for 8 hours in a testing device which contains dust particles that are up to 75 µm in diameter.

The water resistant and dust proof performance of NYSNO-10 is based on our measurements under the conditions herein described. Note that malfunctions as a result of water immersion or dust intrusion caused by misuse by the customer are not covered by the warranty.

To avoid deterioration of water resistant and dust proof performance

- Check the following and use NYSNO-10 correctly.
- Do not use and leave NYSNO-10 in a location where temperature is very high (approx. 41 °C (105.8 °F) or above) and low (approx. -11 °C (12.2 °F) or below). Use or leave of NYSNO-10 in a location where is out of the range above, the operation may stop automatically to protect internal circuit.
- NYSNO-10 passes the drop test from 1.2 m (3 ft 11 1/4 in) on plywood of 5 cm (2 in) thickness conforming to MIL-STD 810 F Method 516.5-Shock. However, this does not guarantee no damage, no breakdown, or water resistant and dust proof performance in all conditions. Deformation or damage from dropping NYSNO-10 or subjecting it to mechanical shock may cause deterioration of the water resistant and dust proof performance.
- Do not use NYSNO-10 in a location where water or hot water may splash on it heavily. NYSNO-10 does not have a design that is resistant to water pressure. Use it in a location where high water pressure is applied, such as under running water or in the shower, may cause a malfunction.
- Do not pour high-temperature water or blow hot air from a hair dryer or any other appliance on NYSNO-10 directly. Also, never use it in high temperature locations such as in saunas or near a stove.
- To prevent foreign objects from attaching the main unit on the port part, make sure that the micro-USB port cover is closed completely when not used.



How to care

- If you leave the main unit wet, it may develop scales, molds, etc. We recommend that you wipe off water droplets after use and dry it in a well-ventilated place until moisture disappears.
- Especially in cold regions, be sure to wipe off the moisture after use. Leaving moisture on its surface may cause the main unit to freeze and malfunction.
- If sand grains, etc. enter the adhesive mount attaching part, remove them carefully.

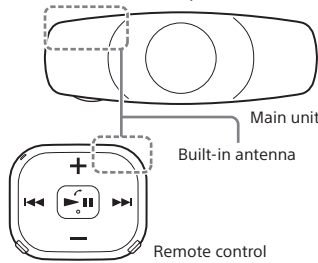
Trademarks

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- The N-Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
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- Mac and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries.
- iPad, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
- Android is trademark of Google Inc.
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Precautions

On BLUETOOTH® communications

- Bluetooth wireless technology operates within a range of about 10 m (30 feet)¹⁾. Maximum communication range may vary depending on obstacles (human body, metal, wall, etc.) or electromagnetic environment.
- Approx. 1 km (0.62 miles) for Group Talk.
- The antennas are built into the main unit and the remote control as illustrated in the dotted line. The sensitivity of the Bluetooth communications will improve by turning the direction of the built-in antenna of the main unit to the connected Bluetooth device. When obstacles are between the antenna of the connected device and the built-in antennas of the main unit and the remote control, noise or audio dropout may occur, or communications may be disabled.



- Bluetooth communications may be disabled, or noise or audio dropout may occur under the following conditions.
 - There is a human body between the main unit and the Bluetooth device.
 - This situation may be improved by placing the Bluetooth device facing the antenna of the main unit.
 - There is an obstacle, such as metal or wall, between the main unit and the Bluetooth device.
 - A device using 2.4 GHz frequency, such as a Wi-Fi device, cordless telephone, or microwave oven, is in use near the main unit.
- Because Bluetooth devices and Wi-Fi (IEEE802.11b/g/n) use the same frequency (2.4 GHz), microwave interference may occur resulting in noise or audio dropout or communications being disabled if the main unit is used near a Wi-Fi device. In such a case, perform the following.
 - Use the main unit at least 10 m (30 feet) away from the Wi-Fi device.
 - If the main unit is used within 10 m (30 feet) of a Wi-Fi device, turn off the Wi-Fi device.
 - Install the main unit and the Bluetooth device as near to each other as possible.
- Microwaves emitting from a Bluetooth device may affect the operation of electronic medical devices. Turn off the main unit and other Bluetooth devices in the following locations, as it may cause an accident:
 - where inflammable gas is present, in a hospital, or a petrol station
 - near automatic doors or a fire alarm.
- Due to the characteristic of the wireless technology, the sound played on the main unit is delayed from the sound and music played on the sending device.

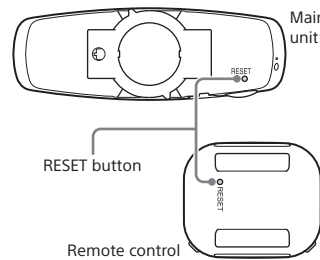
- NYSNO-10 supports security capabilities that comply with the Bluetooth standard to provide a secure connection when the Bluetooth wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using Bluetooth wireless technology.
- We do not take any responsibility for the leakage of information during Bluetooth communications.
- Connection with all Bluetooth devices cannot be guaranteed.
 - A device featuring Bluetooth function is required to conform to the Bluetooth standard specified by Bluetooth SIG, Inc. and be authenticated.
 - Even if the connected device conforms to the above mentioned Bluetooth standard, some devices may not be connected or work correctly, depending on the features or specifications of the device.
 - While talking on the phone hands free, noise may occur, depending on the device or communication environment.
- Depending on the device to be connected, it may require some time to start communications.

On charging the main unit

- This main unit can be charged using USB only. Personal computer with USB port is required for charging.
- This main unit cannot be turned on, nor can the Bluetooth function be used, during charging.
- If you do not use the main unit for a long time, the rechargeable battery may not be able to keep sufficient charge. The battery will be able to keep a charge properly after repeatedly discharging and charging several times.
- If you store the main unit for a long time, charge the battery once every half year to prevent over-discharge.
- If the length of time you can use the unit became extremely short, the rechargeable battery should be replaced with a new one. Please contact your nearest Sony dealer for a battery replacement.

If NYSNO-10 does not operate properly

- Reset the main unit and the remote control. Press the RESET button with something fine-tipped such as a hairpin until you feel the button. The pairing information and the other settings are retained.



- If the problem persists even after the resetting operation above, initialize the main unit as follows. Press and hold the RESET button for about 15 seconds with something fine-tipped such as a hairpin. The indicator (blue) flashes 4 times, and the main unit is reset to the factory settings. All pairing information is deleted.

- After the main unit is initialized, it may not connect to your iPhone or computer. In this case, delete the pairing information of the main unit from the iPhone or computer, and then pair them again.

Others

- As the main unit makes sounds by making the helmet shell vibrate, sound leakage may occur outside the shell. When using NYSNO-10, pay attention to your surroundings. Adjust the volume, turn down the volume instantly with the Attenuate (ATT) function, etc. as necessary.
- When you talk on Group Talk, beeping (howling) may occur depending on the range between the main units. In this case, adjust the range.
- Do not place the main unit in a place exposed to humidity, dust, soot or steam, or subject to direct sunlight. Do not leave the main unit in a car for a long time. It may cause a malfunction.
- Using the Bluetooth device may not function on mobile phones, depending on radio wave conditions and location where the equipment is being used.
- Do not put weight or pressure on the main unit as it may cause to deform during long storage.
- The main unit passes the drop test from 1.2 m (3 ft 11 1/4 in) on plywood of 5 cm (2 in) thickness conforming to MIL-STD 810 F Method 516.5-Shock. However, this does not guarantee no damage, no breakdown, or water resistant and dust proof performance in all conditions. Deformation or damage from dropping the system or subjecting it to mechanical shock may cause deterioration of the water resistant and dust proof performance.
- Clean with a soft dry cloth.
- The front side of the remote control may deteriorate due to long-term use or storage.
- Fastening the belt of the remote control too tightly, may make you sweat easily, resulting in rashes on the skin due to poor ventilation. Fasten the belt loosely to some extent.
- If you apply cosmetics such as sunscreen or suntan oil on the main unit and the remote control, be sure to wash them off with lukewarm water. If not washed off, discoloration or damage (surface cracks, etc.) may occur on the surface of the main unit and the remote control.

Maintenance after playing sports

When perspiration, sand, or mud is stuck on the main unit or the remote control, wash it with weak flowing tap water, and dry it well.

- If you experience discomfort after using the main unit, stop using immediately.
- If you have any questions or problems concerning NYSNO-10 that are not covered in this manual, visit the Company support site: <https://www.sony.net/Products/NYSNO/support/>.

Specifications

Main Unit
Maximum output 4 W
Communication system Bluetooth Specification version 4.1
Output Bluetooth Specification Power Class 1
Group talk communicable distance Up to approx. 1 km (0.62 miles) ¹⁾
Frequency band 2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Modulation method FHSS
Compatible Bluetooth profiles²⁾ A2DP (Advanced Audio Distribution Profile) AVRCP (Audio Video Remote Control Profile) HFP (Hands-free Profile) HSP (Headset Profile)
Supported Codec³⁾ SBC ⁴⁾
Supported content protection method SCMS-T
Transmission range (A2DP) 20 Hz - 20,000 Hz (Sampling frequency 44.1 kHz)
Power source DC 3.6 V: Built-in lithium-ion rechargeable battery DC 5 V: When charged using USB
Dimensions (w/h/d) Approx. 143 mm / 52 mm / 30.8 mm (5.63 inches / 2.05 inches / 1.21 inches)
Dimensions projecting parts not included (w/h/d) Approx. 143 mm / 48.4 mm / 30.8 mm (5.63 inches / 1.91 inches / 1.21 inches)
Mass Approx. 150 g (5.29 oz) an adhesive mount included
Operating temperature -10 °C to 40 °C (14 °F to 104 °F)
Usage hours Music playback time, Group Talk time: Maximum approx. 8 hours ⁵⁾ Communication time: Maximum approx. 20 hours ⁵⁾
Charging time Approx. 4 hours ⁶⁾
Charging method USB-based charging
Charging temperature 5 °C to 35 °C (41 °F to 95 °F)
Water resistant IPX5 (IEC 60529) or equivalent ⁷⁾
Dust proof IP6X (IEC 60529) or equivalent ⁸⁾
Wristband remote control
Communication system Bluetooth Specification version 4.1
Output Bluetooth Specification Power Class 2
Communication range Line of sight up to approx. 10 m (30 feet) ⁹⁾
Frequency band 2.4 GHz band (2.4000 GHz - 2.4835 GHz)

Power source
CR1620 Lithium Coin Cell Battery

Operating temperature
-10 °C to 40 °C (14 °F to 104 °F)

Dimensions (w/h/d)
Approx. 52.8 mm / 44.4 mm / 15.8 mm (5.63 inches / 2.05 inches / 1.21 inches)
a belt not included

Dimensions projecting parts not included (w/h/d)
Approx. 52.8 mm / 44.4 mm / 15.3 mm (5.63 inches / 2.05 inches / 0.60 inches)
a belt not included

Mass
Approx. 32 g (1.13 oz)
a belt included

Water resistant
IPX5 (IEC 60529) or equivalent⁷⁾

Dust proof
IP6X (IEC 60529) or equivalent⁸⁾

Microphone

Type
Electret Condenser Microphone

Directivity
Omni directional

Effective frequency range
50 Hz - 15,000 Hz

Dimensions projecting parts not included (Maximum diameter / Length)
Approx. 20 mm / 400 mm (0.79 inches / 15.75 inches)

Power Supply from Main Unit
Plug-in power

Mass
Approx. 7 g (0.25 oz)

Water resistant
IPX5 (IEC 60529) or equivalent⁷⁾

Dust proof
IP6X (IEC 60529) or equivalent⁸⁾

Included items

Helmet Mounted Wireless Headset (1)
Wristband remote control (1)
Microphone (1)
Adhesive mount (2)
Micro-USB cable (approx. 50 cm / 19 3/4 inches) (1)
Leash cord (approx. 30 cm / 11 7/8 inches) (1)
Operating Instructions (1)
Reference Guide (this manual) (1)

- ¹⁾ The distance at which 2 people can talk from locations with good visibility. Calculated according to Sony methods. Distance may be shorter due to geography, climate, obstacles, surrounding radio wave conditions, etc.
- ²⁾ Bluetooth standard profiles indicate the purpose of Bluetooth communications between devices.
- ³⁾ Codec: Audio signal compression and conversion format
- ⁴⁾ Subband Codec
- ⁵⁾ The time in a -10 °C (14 °F) environment.
- ⁶⁾ Charging hours may be different depending on the conditions of use.

⁷⁾ Water resistant specifications make it washable and strong against snow and sudden rain (equivalent to IPX5). Do not immerse in water for long periods of time. Do not expose to sea water. When water, perspiration, sand, etc. gets on, wipe it clean. Do not wash with strong flowing of water, a sponge, detergent, etc. It may cause malfunction. For details on washing, see "Maintenance after playing sports" in Reference Guide.

⁸⁾ Product is protected so that dust for dust-prevention test (diameter of less than 75 µm) does not reach the inside (equivalent to IP6X).

⁹⁾ The communication range is an approximate value. It may vary depending on the surrounding environments.

System requirements for battery charge using USB

(As of November 2017)
Personal computer with pre-installed with any of the following operating systems and USB port:

Operating System
(when using Windows)
Windows® 10 Home / Windows® 10 Pro
Windows® 8.1 / Windows® 8.1 Pro
Windows® 8 / Windows® 8 Pro
Windows® 7
Home Basic / Home Premium / Professional / Ultimate

(when using Mac)
Mac OS X (version 10.9 or later)

Design and specifications are subject to change without notice.

LIMITED WARRANTY

U.S.Only

Takeoff Point LLC ("Company") warrants this product against defects in material or workmanship for the original owner and any subsequent end user owner(s) ("You" or "Your") for the time period as set forth below. Pursuant to this Limited Warranty, Company will, at its option, (i) repair the product using new or refurbished parts or (ii) replace the product with a new or recertified/refurbished product of the same (or similar) model. For purposes of this Limited Warranty, "recertified" or "refurbished" means a product or part that has been returned to its original specifications. **In the event of a defect, these are Your exclusive remedies.** Company does not warrant that the operation of the product will be uninterrupted or error-free.

Term: For a period of one (1) year from the original date of purchase of the product, Company will, at its option, repair or replace with a new or refurbished product or parts, any product or parts determined to be defective. This Limited Warranty shall apply to any repair, replacement part or replacement product for the remainder of the original Limited Warranty period or for ninety (90) days, whichever is longer. Any parts or product replaced under this Limited Warranty will become the property of Company.

This Limited Warranty is valid only in the United States.

This Limited Warranty covers only the hardware components packaged with the product. It does not cover separate accessories, technical assistance for hardware or software usage. Any software or other included content is provided "AS IS" with no warranty. Please refer to any End User License Agreement(s) included with the product for Your rights and obligations with respect to the software or content.

For specific instructions on how to obtain warranty service for this product, visit the Company support site: <https://www.sony.net/Products/NYSNO/support/>. A dated purchase receipt is required to obtain warranty service. **It is Your responsibility to remove or backup any removable media or parts, data, software or content (like pictures, music, videos, etc.). Company will not be responsible for any such damage or loss.**

This Limited Warranty only covers product issues caused by defects in material or workmanship during ordinary consumer use; it does not cover product issues caused by any other reason, including but not limited to product issues due to: (i) commercial use, (ii) accidental damage; (iii) computer or internet viruses, bugs, or worms; (iv) acts of God, (v) misuse or abuse; (vi) limitations of technology, (vii) cosmetic damage; or (viii) or modification of or to any part of this product. This Limited Warranty does not cover any product where the factory-applied serial number has been altered or removed from the product.

LIMITATION ON DAMAGES: COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION ON THIS PRODUCT. NOR SHALL RECOVERY OF ANY KIND AGAINST COMPANY BE GREATER THAN THE PURCHASE OF THE PRODUCT.

DURATION OF IMPLIED WARRANTIES OR CONDITIONS: EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to You. This Limited Warranty gives You specific legal rights and You may have other rights which vary from jurisdiction to jurisdiction.

Read the following Dispute Resolution provision carefully. It details Your rights and instructions should a dispute related to the product arise.

What Happens If We Have A Dispute: Should a dispute or claim arise related to the product, Your purchase and/or use of the product, the terms of this Limited Warranty, or any service provided under the terms of this Limited Warranty (including any repair or replacement) ("Dispute"), You and COMPANY agree that the **Dispute shall be resolved exclusively through binding arbitration. YOU UNDERSTAND AND ACKNOWLEDGE THAT BY AGREEING TO ARBITRATION, YOU ARE GIVING UP THE RIGHT TO LITIGATE (OR PARTICIPATE IN AS A PARTY OR CLASS MEMBER) ANY DISPUTES IN COURT. You also agree that ANY DISPUTE RESOLUTION PROCEEDING WILL ONLY CONSIDER YOUR INDIVIDUAL CLAIMS, AND BOTH PARTIES AGREE NOT TO HAVE ANY DISPUTE HEARD AS A CLASS ACTION, REPRESENTATIVE ACTION, CONSOLIDATED ACTION, OR PRIVATE ATTORNEY GENERAL ACTION. Despite the above, You have the right to litigate any Dispute on an individual basis in small claims court or other similar court of limited jurisdiction, to the extent the amount at issue does not exceed \$15,000, and as long as such court has proper jurisdiction and all other requirements (including amount in controversy) are satisfied.**

Arbitration Instructions. To begin Arbitration, either You or Company must make a written demand to the other for arbitration. The Arbitration will take place before a single arbitrator. It will be administered in keeping with the Expedited Procedures of the Commercial Arbitration Rules, and the Supplementary Proceedings for Consumer-Related disputes when applicable ("Rules") of the American Arbitration Association ("AAA") in effect when the claim is filed. You may get a copy of AAA's Rules by contacting AAA at (800) 778-7879 or visiting www.adr.org. The filing fees to begin and carry out arbitration will be shared between You and Company, but in no event shall Your fees ever exceed the amount allowable by the special rules for Consumers Disputes provided for by AAA, at which point Company will cover all additional administrative fees and expenses. This does not prohibit the Arbitrator from giving the winning party their fees and expenses of the arbitration when appropriate pursuant to the Rules. Unless You and Company agree differently, the arbitration will take place in the county and state where You live, and applicable federal or state law shall govern the substance of any Dispute during the arbitration. However, the Federal Arbitration Act, 9 U.S.C. § 1, et seq., will govern the arbitration itself and not any state law on arbitration. The Arbitrator's decision will be binding and final, except for a limited right of appeal under the Federal Arbitration Act.

Opt-Out Instructions. IF YOU DO NOT WISH TO BE BOUND BY THE BINDING ARBITRATION PROVISION HEREIN, then You must so notify Company in writing within 30 days of the date that You purchased the product. Your written notification must be mailed to Takeoff Point LLC 16535 Via Esprillo, San Diego CA 92127, Attn: Legal Department. Your written notification must include (a) Your NAME, (b) Your ADDRESS, (c) the DATE You purchased the product, and (d) a clear statement that "YOU DO NOT WISH TO RESOLVE DISPUTES WITH ANY SONY OR TAKEOFF POINT ENTITY THROUGH ARBITRATION AND/OR BE BOUND BY THE CLASS ACTION WAIVER."

Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and You will continue to enjoy the benefits of the Limited Warranty.