

**SONY**

H-057-100-11(1)

Wireless LAN Extender

Operating Instructions

NSD-M1000

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Communications Inc.  
Printed in China



**Owner's Record**

The model and serial numbers are located on the bottom of the unit.  
Record the serial number in the space provided below. Refer to these  
numbers whenever you call upon your Sony dealer regarding this product.  
Model No. NSD-M1000  
Serial No. \_\_\_\_\_

**Federal Communication Commission Interference Statement**

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 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.
- FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.  
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.

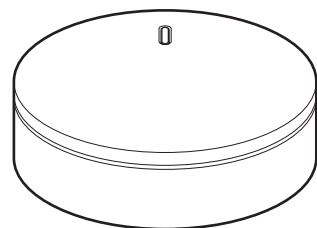
**IMPORTANT NOTE:**  
**Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.  
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.  
Country Code selection feature to be disabled for products marketed to the US/CANADA  
Operation of this device is restricted to indoor use only

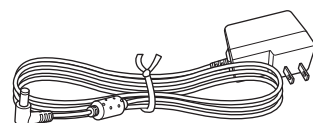
**Checking the supplied items**

Check that all the following items are included in the package.  
If there is any missing item, consult with your service provider.

- NSD-M1000 main unit

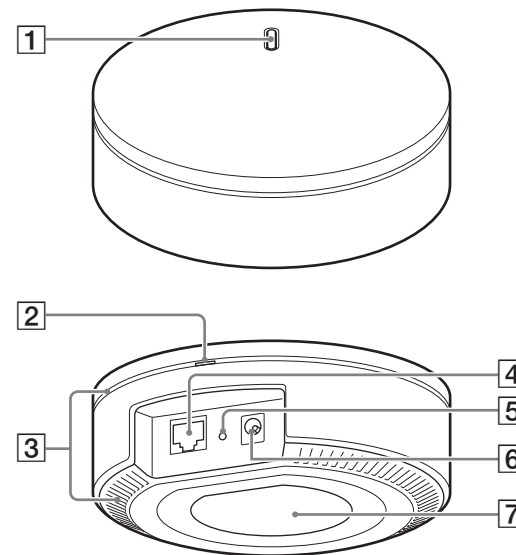


- AC adaptor



- Operating Instructions (this document)

**Identifying parts**



- 1 WPS button
- 2 Status indicator
- 3 Ventilation holes
- 4 LAN terminal
- 5 RESET button
- 6 DC IN jack
- 7 Product label

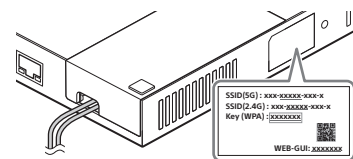
**Status indicator**

Color and state of indicator	Unit status
Flashes in green and red	Wireless LAN is not set up (default settings).
Lights up in green	Connected in EasyMesh mode
Lights up in red	Start-up failed/software update failed
Flashes in green	Pairing with the wireless LAN router (base unit) is in progress.
Flashes in orange	Being started up/being reset/software being updated
Flashes in red	No connection with the wireless LAN router (base unit)/an invalid software update file received
Lights off	Power off

**Setup 1: Setting up on the ONU**

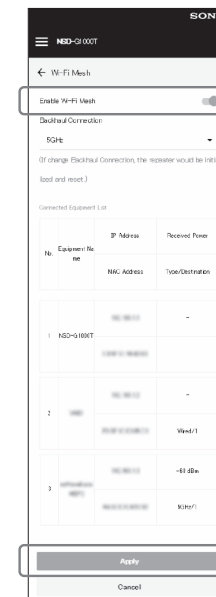
Enable the Wi-Fi mesh function of the ONU (ONU Integrated High-speed Router) in the following steps.

- 1 Connect your smartphone or computer to the ONU via Wi-Fi.
- 2 After the connection is established, access the following URL on the browser of the smartphone or computer.  
<http://192.168.1.1>
- 3 Enter the user name and the password to log in.  
Find the password on the bottom exterior of the ONU.



- 4 After login, select [Detail Setting] - [Wi-Fi Mesh Function]

- 5 Set [Enabel Wi-Fi Mesh] to ON and select [Apply].



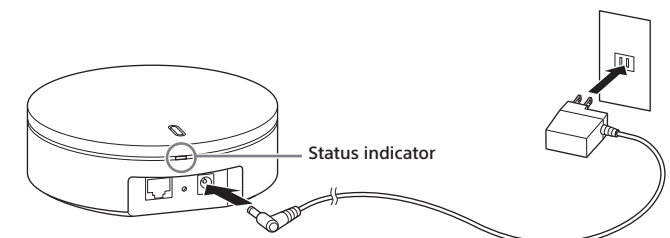
It may take about 30 seconds until the setting is completed.

**Setup 2: Pairing**

Pair the ONU and this unit (Wireless LAN Extender). There are two pairing methods; pairing by the WPS button and pairing by connecting the LAN cable.

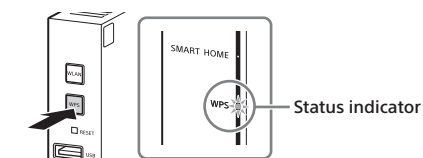
**Pairing by the WPS button**

- 1 Place this unit near the ONU.
- 2 Connect the supplied AC adaptor to this unit.



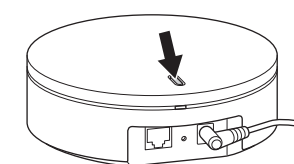
The status indicator on the rear of this unit flashes in orange, and then it flashes in green and red alternately.

- 3 Press and hold the WPS button on the rear of the ONU for 5 seconds.



The status indicator on the rear of this unit changes to flashing in green.

- 4 Press and hold the WPS button on the top of this unit for 5 seconds.



The setting is completed when the status indicator on the rear of this unit lights up in green.

If the status indicator does not change to light up in green, disconnect the AC adaptor and repeat from step 2.

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## Transition of the status indicator

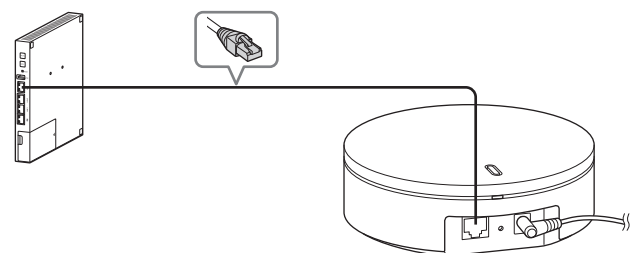
Color and state of indicator	Unit status
Flashes in orange	Just after this unit is turned on
Flashing in green and red alternately	Pairing in preparation
Flashes in green	Pairing in progress
Lights up in green	Pairing succeeded
Flashes in red	Not connected to the wireless LAN router

## Pairing by connecting the LAN cable

### 1 Connect the supplied AC adaptor to this unit.

The status indicator on the rear of this unit flashes in orange, and then it flashes in green and red alternately.

### 2 Connect this unit and the ONU with a LAN cable (not supplied).



The setting is performed automatically, and the setting is completed when the status indicator on the rear of this unit lights up in green.

If the status indicator does not change to light up in green, disconnect the AC adaptor and the LAN cable, and repeat from step 1.

## Deciding where to install this unit

After the setting is completed, disconnect the AC adaptor once and place this unit on the middle point between your computer or smartphone and the ONU. By keeping a moderate distance from the ONU, a wide area of Wi-Fi communication is attained.

# Safety Information

If any abnormalities occur such as smoke, unusual sound or smell, or deformation of the cabinet, immediately follow the instructions below.

- 1 Unplug the AC adaptor.
- 2 Consult your contractor for inspection and maintenance.

### Caution

- Do not let water or foreign objects get into this unit. If water or foreign objects have gotten into this unit, unplug the AC adaptor.
- Do not disassemble this unit or make alterations to it. For inspection and maintenance, consult with your contractor.
- If there is a possibility of lightning strike, do not use this unit. If lightning is likely, unplug the AC adaptor to prevent a fire, electric shock, and malfunction.
- Wireless functions are incorporated into this unit. Note the following when you use this unit. Do not use the wireless functions of this unit when a failure occurs. In case of an emergency, immediately unplug the AC adaptor of this unit.
  - Do not use wireless functions on an airplane.
  - Do not use this unit near automatically-controlled equipment, such as automatic doors or fire alarms.
  - Stop using this unit immediately when there is radio interference on other devices while using this unit.
- Do not touch this unit or AC adaptor while this unit is turned on. If your skin remains in contact with it, it may cause low temperature burns.
- Do not use this unit while it is covered with cloth, comforter, etc.
- Insert the connector straight.
- Do not put other objects on this unit.
- If you apply a strong force to this unit, such as by putting a heavy object on it, dropping it, or stepping on it, it may cause injuries or a malfunction.
- Take care not to drop this unit when moving it.

### On placement

- Do not place this unit in any places where there is excessive oily smoke, steam, moisture, or dust.
- Do not install this unit where it cannot be fixed stably, such as on the ceiling.
- Do not place this unit in an unstable place, such as on a wobbly table or tilted place, as this unit may drop or fall down, which may cause injuries. Use this unit set on a stable place.
- Do not place this unit where water splashes.
- Do not place/store this unit in a place exposed to direct sunlight or close to a heater.
- Do not bring your hand or object close to the ventilation holes.
- Place this unit out of reach from children.

### On AC adaptor

- Do not use an AC adaptor other than the one supplied with this unit.
- The supplied AC adaptor is designed for use with this unit exclusively. It should not be used with other devices.
- Do not damage the AC adaptor. Note the following.
  - Do not get the AC adaptor cord tucked between this unit and a desk or wall.
  - Do not alter or damage the AC adaptor.
  - Do not put a heavy object on the AC adaptor cord or pull it forcibly.
  - Do not bring the AC adaptor close to a heating appliance or heat it up.
  - To unplug the AC adaptor from the wall outlet, grasp the AC adaptor and pull it.
- Do not touch the AC adaptor with wet hands.
- Do not wrap the power cord around the AC adaptor. It may cause the cord to break.
- Before cleaning this unit, unplug the AC adaptor.
- Before moving this unit, unplug the AC adaptor.
- If this unit is not to be used for a long time, unplug the AC adaptor.

# Precautions

For the proper and safe usage of this unit, read this section carefully before using this unit.

- Do not connect this unit to a power extension cord that has many other devices connected.
- To reduce the risk of electric shock or other dangers, keep the AC power plug clean and dry.
- This unit is designed exclusively for desktop installation. Do not put other objects on this unit. Doing so may damage this unit due to heat buildup or deformation of the exterior. Allow space of 5 cm (2 in.) or more around this unit for heat dissipation.
- Install this unit in an airy place. If this unit is installed in a badly ventilated, closed place, such as on a shelf or in a closet, this unit may be damaged.
- Do not scratch the exterior of this unit as the coating or printing may come off.
- Do not install this unit near electronic devices which generate strong magnetic fields such as a microwave oven, refrigerator, mobile phone, etc.
- Use this unit within the temperature range described under "Operating environment" of "Specifications."
- Stop using this unit when the cable is damaged or deteriorated.
- Use a dry cloth to wipe off dust or dirt on this unit. Before cleaning, disconnect all the cables such as the AC adaptor.
- Do not use cleaning liquid or spray cleaner to clean this unit.
- Using this unit near a TV set or a radio receiver may affect the reception.
- When this unit or the packing material becomes unnecessary, consult with your service provider.

### Note on the wireless LAN

Sony cannot assume any responsibility for any damage or loss caused by unauthorized access to or use of the connection destination installed in this unit due to loss or theft of this unit.

### On security when using wireless LAN products

- To avoid hacking, access from a malicious third party, or other vulnerabilities, always confirm that a secure wireless LAN is used.
- Security settings are highly important on wireless LAN.
- When security problems happen due to negligence of security measures or due to unavoidable circumstances in using the wireless LAN, Sony cannot assume any responsibility for any damage consequently caused.

# Q&A

If you have difficulties in using this unit or this unit stops working, try the following solutions before making inquiries. When this unit still does not function properly, consult with your contractor.

### The status indicator does not light up even after the AC adaptor is connected.

- Check if all the cables are connected correctly.
- Power is not delivered to this unit. Check if the supplied AC adaptor is connected correctly.

### You want to reset this unit to the default settings.

Using an object with a fine point, press the RESET button for 5 seconds or more to reset this unit. All the settings will be reset to the default settings.

### This unit was restarted at night time.

Software of this unit may be updated to the latest version by the automatic system update function. After this unit is restarted, when the status indicator is normal, you can use this unit as is.

### This unit takes a long time to start up.

It will take about 3 minutes for this unit to start up. (For details on starting up this unit, watch the instruction manual video.)  
Software update may run just after this unit starts up. Software update will take about 5 minutes including restarting of this unit.

# Specifications

### Dimensions

Approx. 134 mm (5 3/8 in.) × 45 mm (1 13/16 in.) (diameter × height)

### Mass

Approx. 243 g (8.57 oz) (main unit only)

### Maximum power consumption

18 W

### Rated current/voltage

DC: 12 V/1.5 A

AC: 100 V - 240 V

### Operating environment

Temperature: 0 °C - 40 °C (32 °F - 104 °F)

Humidity: 0% - 80%

### Wired LAN

1000BASE-T (1)

Auto-nego, MDI/MDI-X

### Wireless LAN

IEEE 802.11a/b/g/n/ac/ax 2x2 MIMO

Design and specifications are subject to change without notice.

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