

Modem Adaptor with Bluetooth™ Function

Operating Instructions _____ **GB**

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

Owner's Record

The model and serial numbers are located on the bottom. 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. **BTA-NW1**

Serial No. _____

Mode d'emploi _____ **FR**



BTA-NW1

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Countries and areas

This product is intended to be used in the following countries or areas.
Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece,
Hong Kong, Ireland, Japan, Luxembourg, Netherlands, New Zealand, Norway,
Portugal, Singapore, Sweden, Switzerland, UK, USA

This product is intended to be in indoor use only in Canada and France.

Regulatory Information

For the Customers in the USA

CAUTION

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

To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between enclosure of this equipment and all persons.

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.

FCC Part 68

This equipment (MDM-5614G exclusive modem card) complies with Part 68 of the FCC rules. On the bottom of this equipment is a label that contains among other information, the FCC equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This modem uses the USOC RJ-11 telephone jack.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If the terminal equipment (MDM-5614G exclusive modem card) causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operations of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment (MDM-5614G exclusive modem card), please contact 1-800-222-SONY (7669), or write to the Sony Customer Information Service Center, 12451 Gateway Blvd., Fort Myers, FL 33913 for repair and (or) warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.

Repair of this equipment should be made only by a Sony Service Center or Sony authorized agent. For the Sony Service Center nearest you, call 1-800-222-SONY (7669).

This equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state and possible provincial tariffs. (Contact the state or provincial utility service commission, public service commission or corporation commission for information.)

For the Customers in CANADA

Operating Condition

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

INDUSTRY CANADA NOTICE

NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection.

The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Number of all the devices does not exceed 5. The Ringer Equivalence Number for this equipment is 0.1.

For the Customers in Europe



Hereby, Sony Corporation, declares that this Modem Adaptor with Bluetooth Function is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC.

This equipment is in compliance with the requirements of the directive 1999/5/EC (R&TTE), to be connected with all European analogue PSTN. It complies with the Commission Decision (2000/373/EC) regarding the France Telecom PSTN. However, due to differences between the individual PSTNs provided in the different countries, the compliance does not, on itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, you should contact your equipment supplier in the first instance.

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Introduction

- The unit is designed to communicate with a Bluetooth device, and allow that device to access the Internet to send/receive data via the modem.
- The unit complies to the protocols of a dial-up network.
- Use of size AA alkaline dry batteries allows the unit to be used as a mobile device.

An overview of the Bluetooth wireless technology

The Bluetooth wireless technology allows communication between various Bluetooth devices without using cables. Devices which can use this technology include PCs, computer peripheral devices, PDAs, and mobile phones. This omnidirectional communication system enables communication even if the Bluetooth device is in a bag or there are obstacles between the devices.

On trademarks

- The BLUETOOTH trademarks are owned by their proprietor and used by Sony Corporation under license.
- All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, “™” and “®” are not mentioned in each case in this manual.

Precautions

The set is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the set itself has been turned off.

Installation/storage

Do not place the unit in locations that are:

- Extremely hot such as in a car parked in the sun
- Under direct sunlight or near sources of high temperature, such as a heating device
- Subject to strong vibration
- Near devices which generate strong magnetic fields
- Dusty or dirty

When you use the unit on a sandy beach or in a dusty place, protect it from the sand or dust. Sand or dust may cause your unit to malfunction.

Operation

- Do not use the unit in an aircraft, hospitals or petrol stations.
- Do not use the unit near devices (such as radios) which transmit strong radio waves.
- Keep the unit away from radio or TV sets.
- Do not use cards other than the exclusive modem card.
- Do not use the exclusive modem card with devices other than this unit.

Size AA alkaline dry batteries

- The batteries may get hot just after using the unit. Wait until their temperatures fall and remove the batteries.
- If you do not intend to use the unit for a long time, remove the batteries.
- Do not mix old and new batteries, or different types of batteries.
- Be sure to use Sony size AA alkaline dry batteries. Using other batteries may decrease the level of unit performance.
- When you attempt to use the unit in low temperatures, use the supplied AC power adaptor. Use in low temperatures causes significant battery performance degradation.
- Be sure not to use the following types batteries: nickel-cadmium, nickel metal hydride, manganese, or primary lithium batteries.

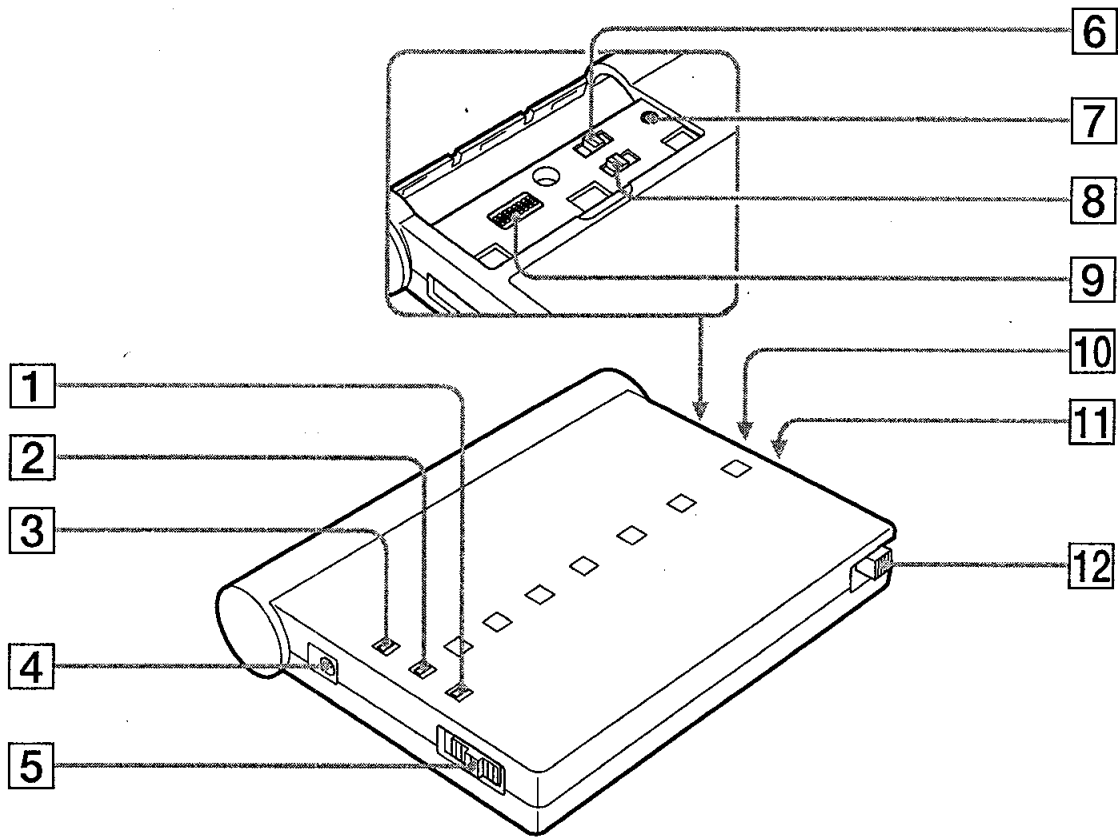
Cleaning

- Clean the unit surface with a soft cloth slightly moistened with mild detergent, then wipe the surface dry.
- Do not use any type of solvent such as thinner, alcohol or benzene as this may damage the finish or the casing.

On the supplied AC power adaptor

- Unplug the unit from the wall outlet (mains) when you are not using the unit for a long time. To disconnect the power cord (mains lead), pull it out by the plug. Never pull the power cord (mains lead) itself.
- Do not operate the unit with a damaged power cord (mains lead) or if the unit has been dropped or damaged.
- Do not bend the power cord (mains lead) forcibly, or place a heavy object on it. This will damage the power cord (mains lead) and may cause fire or electrical shock.
- Prevent metallic objects from coming into contact with the metal parts of the connecting section. If this happens, a short circuit may occur and the unit may be damaged.
- Always keep the metal contacts clean.
- Do not disassemble the unit.
- Do not apply mechanical shock or drop the unit.
- The unit becomes warm during use. This is not a malfunction.

Identifying the parts



- 1 POWER lamp (green)
- 2 ON LINE lamp (orange)
- 3 Bluetooth lamp (blue)

Lamp	POWER (green)	ON LINE (orange)	Bluetooth (blue)
Communication standby with a Bluetooth device	●	—	●
Dialing	●	☀	●
Data transmission	●	●	●
Insufficient battery capacity	☀		

● : The lamp turns on
 ☀ : The lamp flashes

- 4 DC IN jack
- 5 POWER ON/OFF switch

- 6 TONE/PULSE10/PULSE20 selector
- 7 CLEAR button

Note

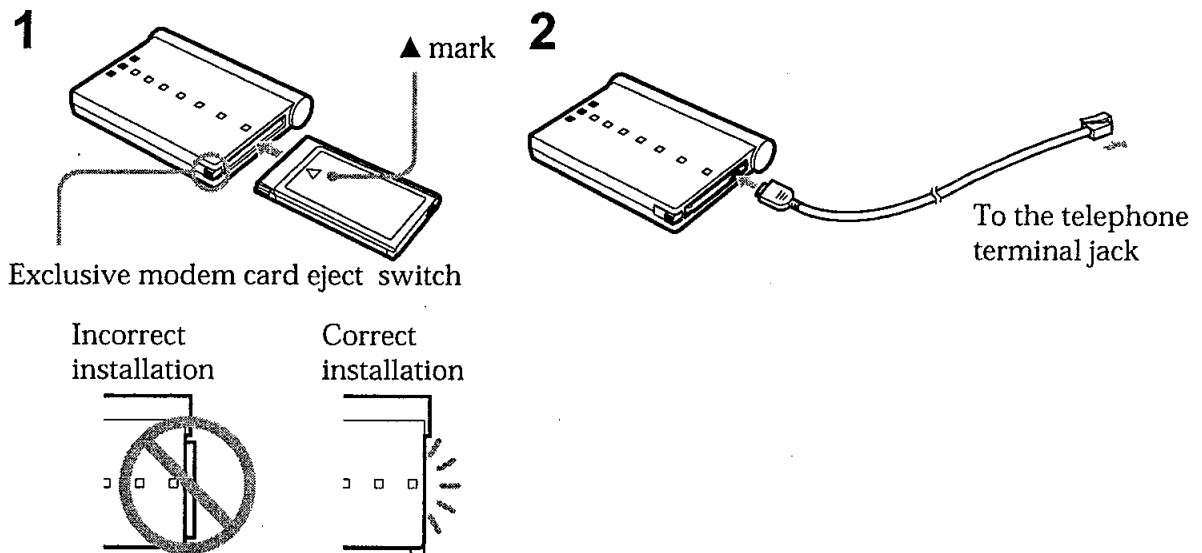
Resets all the setup items to the default values.

- 8 BONDING/NORMAL switch
- 9 AREA CODE switches (1-8)
- 10 Battery cover
- 11 Exclusive modem card slot
- 12 Exclusive modem card eject switch

Preparing the unit

Before using the unit, carry out the following preparations. If the plug of the exclusive modem cable does not match the telephone terminal jack, attach an optional plug adaptor. The plug of the exclusive modem cable is an RJ-11 plug.

Installing the exclusive modem card and exclusive modem cable to the Modem Adaptor with Bluetooth Function



- (1) Insert the exclusive modem card firmly, with the ▲ mark facing upward, into the slot.

Tip

Once you insert the exclusive modem card, you can use the unit without ejecting the exclusive modem card.

- (2) Connect the exclusive modem cable to the exclusive modem card and the telephone terminal jack.

To eject the exclusive modem card

Push down the exclusive modem card eject switch.

Note

Do not eject the exclusive modem card while the POWER lamp is lit or flashing.

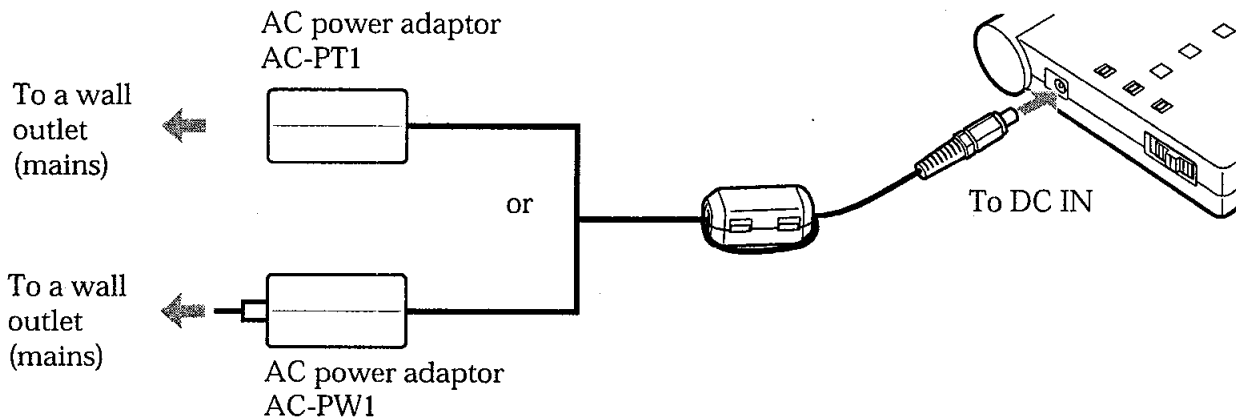
Preparing the power supply

You can use either size AA alkaline dry batteries or the supplied AC power adaptor as the power source. However, we recommend that you use the supplied AC power adaptor.

Preparing the unit

■ Using the supplied AC power adaptor

Connect the AC power adaptor to the DC IN jack on the unit and a wall outlet (mains).

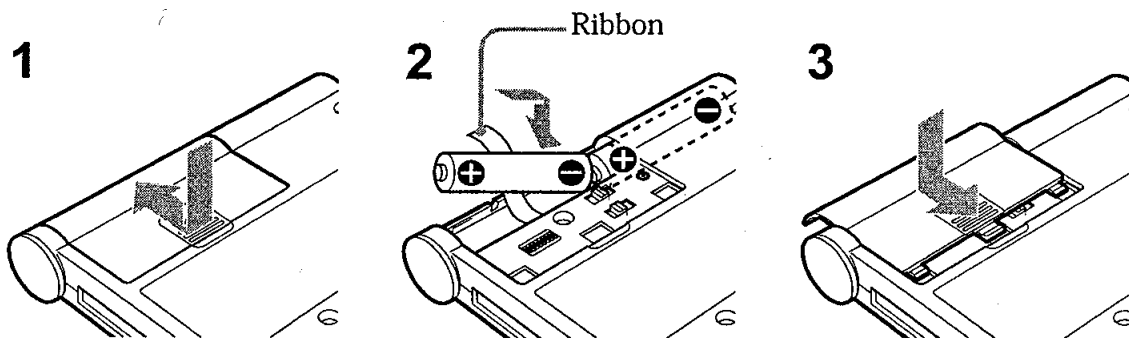


Notes

- The socket outlet should be as close as possible to the unit and easily accessible.
- The shape of your AC power adaptor differs depending on your area.

■ Installing the size AA alkaline dry batteries

The batteries are convenient for outdoor use of the unit.



- (1) Remove the battery cover by sliding the cover in the direction of the arrow.
- (2) Insert two size AA alkaline dry batteries with the correct \oplus and \ominus polarity into the battery compartment and with the ribbon under the batteries.
- (3) Replace the cover.

Note

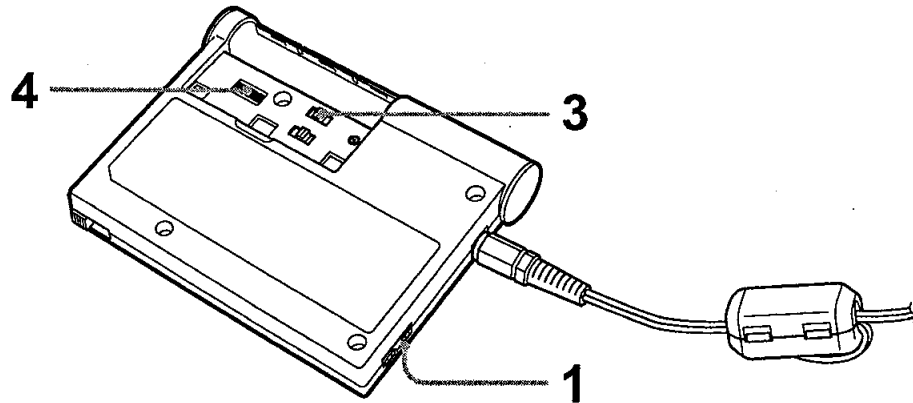
We recommend that you use Sony size AA alkaline dry batteries.

Tip

The DC IN jack has source priority. If you use the unit using the AC power adaptor with size AA alkaline dry batteries installed, the power is provided from the AC power adaptor.

Setting up the unit

You must make certain settings before you can connect the unit to your phone line. Choose the proper settings for your telephone signaling type. You also have to set the AREA CODE switches according to your area.



- (1) Before making the settings, check that the POWER ON/OFF switch is set to OFF.
- (2) Remove the battery cover.
- (3) Select the telephone signaling type with the TONE/PULSE10/PULSE20 selector.
TONE: When your phone line has tone signaling.
PULSE10: When your phone line has pulse signaling.
PULSE20: Normally, this is not used. For details, see “To check the dial speed of the pulse dialing phone” on page 11.

💡 Tips

- How can I tell if my phone has tone signaling?
You can hear the touch pad sound from your phone when you press the number button.
 - How can I tell if my phone has pulse signaling?
You can hear clicking sounds from your phone when you press the number button.
- (4) Set up the AREA CODE switches according to your area.
For details, see “The setup of the AREA CODE switches” on page 11.
 - (5) Replace the cover.
The setting is completed:

Notes

- When the Bluetooth device you are communicating with can switch the telephone signaling type, set it to the same setting as the unit. Otherwise, the connection will not be established properly.
- If the TONE/PULSE10/PULSE20 selector is not set to the appropriate position, you cannot communicate with any Bluetooth devices.
- If you cannot check the dial speed of your pulse dialing phone, set the TONE/PULSE10/PULSE20 selector to PULSE10.

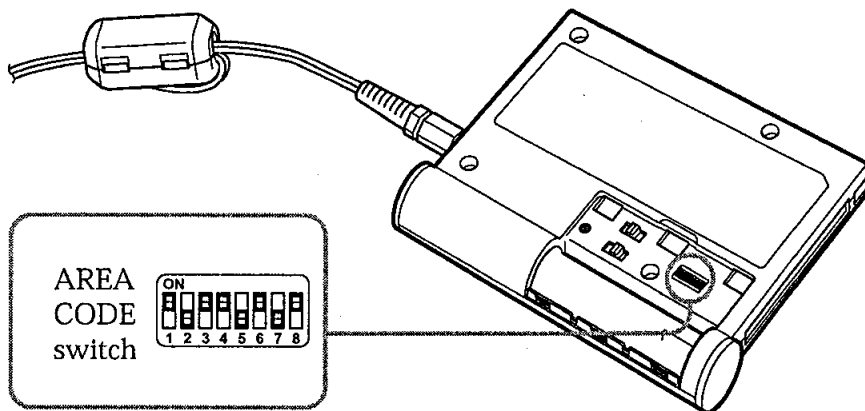
Setting up the unit

To check the dial speed of a pulse dialing phone

You can change the dialing speeds of some pulse dial phones. To check the dial speed, switch the dial speed selector on the phone and check the clicking sound. The slower one is the normal setting. When you select the fast dial speed, set the TONE/PULSE10/PULSE20 selector to PULSE20.

The setup of the AREA CODE switches

Set the AREA CODE switches to the appropriate positions using a sharp-pointed object following the information given in the table below. You cannot use the unit in areas other than the areas indicated on the table.

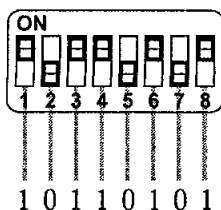


The setup list for the AREA CODE switch

Country or area	Parameter	Country or area	Parameter	Country or area	Parameter
Austria	00001001	Greece	01000110	Portugal	10001011
Australia	00001010	Hong Kong	01010000	Singapore	10011100
Belgium	00001111	Ireland	01010111	Sweden	10100101
Canada	00100000	Japan	00000000	Switzerland	10100110
Denmark	00110001	Luxembourg	01101001	UK	10110100
Finland	00111100	Netherlands	01111011	USA	10110101
France	00111101	New Zealand	01111110		
Germany	01000010	Norway	10000010		

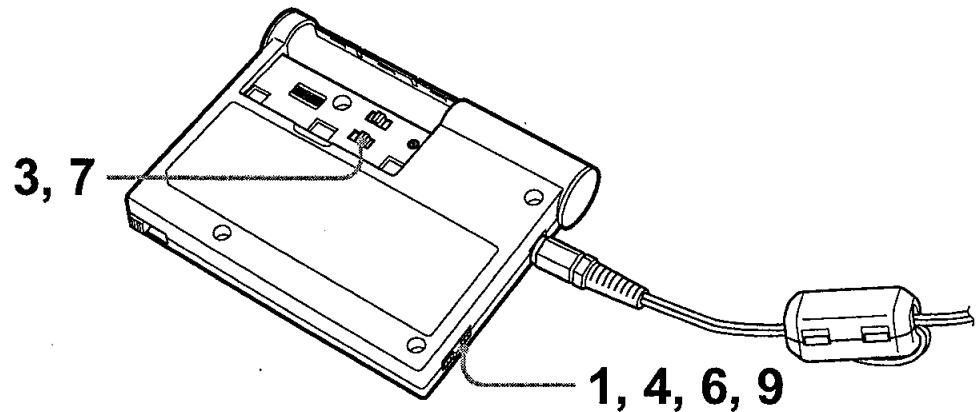
Notes


- "1" for the parameter in the table indicates that setting the switch to the ON side.
- The relationship between the 8-digit numbers in the table and the switch positions is as illustrated below (e. g., for the USA).

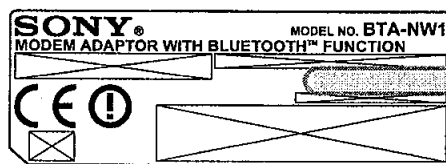


Registering Bluetooth devices

Up to 16 Bluetooth devices can be registered with this unit. When registering devices, consult the operating instructions supplied with the Bluetooth device. When you try to register the 17th device, you must clear all of the previous registrations.



- (1) Before registering, be sure to set the POWER ON/OFF switch to OFF.
- (2) Remove the battery cover.
- (3) Set the BONDING/NORMAL switch to BONDING.
- (4) Set the POWER ON/OFF switch to ON.
The POWER lamp (green) lights up, and the  lamp (blue) lights up.
- (5) Turn on the Bluetooth device, then input the serial number (pass key) which is indicated on the label on the rear of the unit.
For details on inputting this information, refer to the operating instructions of the Bluetooth device.



Pass key
The number used when registering a Bluetooth device

Tip

The pass key is an identification number needed to allow two Bluetooth devices to communicate with each other. This "Pass key" is also referred to as a "Bluetooth pass key," "pass key," "PIN," "Bluetooth PIN," etc.

- (6) Set the POWER ON/OFF switch to OFF.
- (7) Set the BONDING/NORMAL switch to NORMAL.

Note

Be sure to set it to NORMAL. If you use the unit with the switch in the BONDING position, the communication will be picked up by other devices.


- (8) Replace the cover.
- (9) Set the POWER ON/OFF switch to ON.
The registration is completed.

Registering Bluetooth devices

When you try to register a 17th Bluetooth device

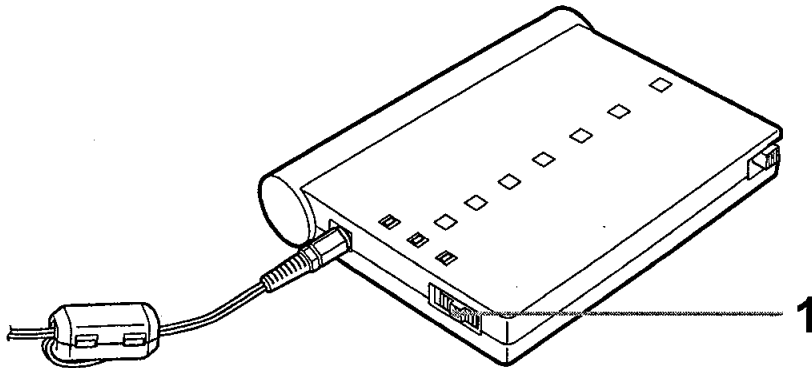
You have to clear all the previous registrations. Press CLEAR using a sharp-pointed object to clear all the registrations. Once you turn the unit off and on, you can register a new Bluetooth device.

Notes

- When you register Bluetooth devices, be sure to set the BONDING/NORMAL switch to BONDING before turning on this unit.
- Up to 16 Bluetooth devices can be registered. If you try to register a 17th Bluetooth device, the ON LINE, , and POWER lamps flash for 30 seconds.

Communicating with the Bluetooth device

After registering a Bluetooth device, you can communicate with that Bluetooth device.



- (1) Set the POWER ON/OFF switch to ON.
The lamps turn on as described below. (●: The lamp turns on)

	POWER (green)	ON LINE (orange)	Bluetooth (blue)
	●	-	-
	↓	↓	↓
Communication standby with a Bluetooth device	●	-	●

- (2) Turn on the registered Bluetooth device and start communication.
The lamps turn on or flash as described below.
(●: The lamp turns on, ☀: The lamp flashes)

	POWER (green)	ON LINE (orange)	Bluetooth (blue)
	●	-	●
	↓	↓	↓
Dialing	●	☀	●
	↓	↓	↓
Data transmission	●	●	●
	↓	↓	↓
Data communication complete	●	-	●

After using the unit

Set the POWER ON/OFF switch to OFF to turn off the power.

Notes

- When using size AA alkaline dry batteries, the continuous communication time is approximately 60 minutes.
- When the POWER ON/OFF switch is set to ON, the size AA alkaline dry batteries will be consumed even if the unit is not actually being used for communication.
- Remove the size AA alkaline dry batteries when you do not intend to use the unit for a long time.









Troubleshooting

If you experience trouble with your unit, first check the following items. Should your unit still not operate properly after you have made these checks, consult your Sony dealer or local authorized Sony service facility.

Power

Symptom	Cause and/or solution
The unit will not turn on.	<ul style="list-style-type: none"> • The size AA alkaline dry batteries are completely dead. <ul style="list-style-type: none"> → Replace them with new size AA alkaline dry batteries. • You are using batteries other than the recommended ones. <ul style="list-style-type: none"> → Use the recommended batteries. • The supplied AC power adaptor is not connected to a wall outlet (mains) properly. <ul style="list-style-type: none"> → Connect it properly.

The lamps

Indications			Cause and/or solution
POWER (green) lamp	ON LINE (orange) lamp	 (blue) lamp	
	-	-	The batteries are dead. <ul style="list-style-type: none"> → Replace the batteries with new ones. → Use the supplied AC power adaptor.
			<ul style="list-style-type: none"> • The exclusive modem card is not inserted. <ul style="list-style-type: none"> → Insert the exclusive modem card properly and turn on the power again. • A malfunction has occurred in the exclusive modem card or in the unit. <ul style="list-style-type: none"> → Turn the power off then on again. If this is not possible, contact your nearest Sony dealer.
 *	 *	 *	You attempted to connect an unregistered Bluetooth device when 16 Bluetooth devices were already registered in the unit. <ul style="list-style-type: none"> → Press CLEAR to clear registrations and register a new Bluetooth device.

* Flashes for about 30 seconds.

Troubleshooting

Communication

Symptom	Cause and/or solution
The unit cannot communicate with Bluetooth devices.	<ul style="list-style-type: none">• The exclusive modem card is not inserted properly. → Insert it properly. See "Preparing the unit" on page 8.• The size AA alkaline dry batteries are completely dead. → Replace them with new size AA alkaline dry batteries.• The setup of the AREA CODE switches is wrong. → Set them up correctly. See "Setting up the unit" on page 10.• The position of the TONE/PULSE10/PULSE20 selector is wrong. → Set it to the appropriate position. See "Setting up the unit" on page 10.
The unit cannot be searched when a new scanning is done.	<ul style="list-style-type: none">• The unit is not searched when the BONDING/NORMAL switch is set to NORMAL. → Set it to BONDING.• While the unit is communicating with another Bluetooth device, the unit may not be searched or may not be able to communicate with the Bluetooth device. → Check whether or not the unit is communicating with another Bluetooth device.
Even if the unit and the Bluetooth device are located within 10 m (32.8 feet), the communication may not be established or may be interrupted during the communication.	<ul style="list-style-type: none">• The communication distance may have to be less than 10 m (32.8 feet) depending on obstacles between the devices or on radio wave conditions. → Change the location of the unit, or shorten the distance between the Bluetooth devices.• While the unit is communicating with another Bluetooth device, the unit may not be searched or may not be able to communicate with the Bluetooth device. → Check whether or not the unit is communicating with another Bluetooth device.

Specifications

Wireless communication

Communication system

Bluetooth specification Ver. 1.1

Maximum communication speed ^{1) 2)}

Approx. 723 kbps

Maximum output ³⁾

Bluetooth specification Power Class1

Receiver sensitivity ³⁾

- 70 dBm

Communication distance ²⁾

Approx. 10 m (32.8 feet) (Open space, when using a Sony Network Handycam with the Bluetooth function)

Compatible Bluetooth profiles ⁴⁾

Generic Access Profile

Dial-up Networking Profile

Usable frequency band

2.4 GHz band

(2.400 - 2.4835 GHz)

Exclusive modem card

Applicable line

Analog telephone line

Interface for the telephone circuit

2 line ceremony interface

NCU

AA

Dial type

Pulse dialing (10/20 pps)

Tone dialing

NCU command

AT command

Communication format

Dual

Sending communication rate

300/1200/2400/4800/7200/9600/

12000/14400/16800/19200/

21600/24000/26400/28800/

31200/33600 bps

Receiving communication rate

300/1200/2400/4800/7200/9600/

12000/14400/16800/19200/

21600/24000/26400/28800/

31200/33600/34000/34667/

36000/37333/38000/38667/

40000/41333/42000/42667/

44000/45333/46000/46667/

48000/49333/50000/50667/

52000/53333/54000/54667/

56000 bps

Modulation mode standard

ITU-T V.21/V.22/V.22bis/V.32/
V.32bis/V.34/V.90, BELL 212A/
103, K56flex™

Sender sensitivity

-10 to -15 dBm

Receiver sensitivity

-10 to -40 dBm

Error correction

MNP Class 4/10, ITU-T V.42

Data compression

MNP Class 5, ITU-T V.42bis

General

Power sources

AC power adaptor or two size AA alkaline dry batteries

Battery life (connecting ⁵⁾)

Approx. 60 minutes ⁶⁾

Battery life (waiting ⁷⁾)

Approx. 90 minutes ⁶⁾

Power requirements

5.5 to 6.5 V (DC input) or two size AA alkaline dry batteries

Power consumption

290 mA (During communication, using DC 6 V input), 200 mA (During waiting, using DC 6 V input)

Dimensions

Approx. 115×20×88 mm
(4 5/8×13/16×3 1/2 inches) (w/
h/d)

Mass

Approx. 185 g (6.5 oz) (including size AA alkaline dry batteries and exclusive modem card)

Operating temperature

0 to 40°C (32 to 104°F) ⁸⁾

Storage temperature

-20 to 60°C (-4°F to 140°F)

Available Countries and areas

Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Hong Kong, Ireland, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Singapore, Sweden, Switzerland, UK, USA
(Canada and France are for indoor use only.)

AC power adaptor

Power requirements

(The type of your adaptor is shown on your adaptor.)

AC-PT1: 120 V AC, 60 Hz (For customers in the USA and Canada), 230 to 240 V AC, 50 Hz (For customers in the UK), 220 to 230 V AC, 50/60 Hz (For other customers)

AC-PW1: 110 to 240 V AC, 50/60 Hz

Rated output voltage

DC 6 V, 880 mA (AC-PT1) or 1.3 A (AC-PW1)

Accessories

Exclusive modem card (MDM-5614G) (1)

Exclusive modem cable (1)

AC power adaptor (AC-PT1 or AC-PW1) (1)

AC power supply cord (1) ⁹⁾

Size AA alkaline dry batteries (2)

Operating instructions (1) ¹⁰⁾

- 1) The maximum rate defined by Bluetooth specification Ver. 1.1
- 2) Depends on obstacles between the Bluetooth devices, radio wave conditions, etc.
- 3) Without antenna gain
- 4) Defined by Bluetooth specification for intended use between the Bluetooth devices
- 5) The state where data is being transmitted. (The POWER ON/OFF switch is set to ON.)
- 6) At room temperature when using the supplied size AA Sony alkaline dry batteries.
- 7) The unit is in communication standby with a Bluetooth device. (The POWER ON/OFF switch is set to ON.)
- 8) The size AA alkaline dry batteries are not usable at certain low temperatures. Use the AC power adaptor.
- 9) Supplied only for the AC-PW1 AC power adaptor
- 10) Two sets of operating instructions are supplied depending on the area.

Design and specifications are subject to change without notice.