

SONY[®]

3-084-866-11 (1)

USB - PSTN Modem Adaptor

Operating Instructions

UNA-PSTN

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English

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

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, Italy, Spain, Taiwan

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Introduction

- USB connection enables data transmission between an Internet and a USB network adaptor compatible camcorder via a modem.
- The USB-PSTN modem adaptor is a bus powered device and therefore requires no power supply.

Trademark

The system names and product names recorded in this instruction manual are in general registered trademarks or trademarks of their respective developing manufacturers. This instruction manual does not specify™ and ® signs.

Precautions on Use

Where not to place this device

Regardless of whether the USB-PSTN modem adaptor is in use or in storage, do not place it in any of the following locations. Doing so may lead to breakdown.

- **Locations of extremely high temperature**
The temperature gets extremely high inside a car with the windows closed in summer or in strong sunshine, and leaving the USB-PSTN modem adaptor inside may cause it to be deformed or break down.
- **Locations with excessive humidity, dust, soot or steam**
Using the USB-PSTN modem adaptor in such an environment may lead to fire or electric shock.
- **Locations where young children can touch it**
There is a risk of injury, electric shock and breakdown.
- **Only use a designated connecting cable**
Using a connecting cable not specified in this manual may lead to fire or breakdown.
- **Avoid incorrect connection**
 - Do not allow any small pieces of metal inside the connector.
A short between pins may lead to fire or breakdown.
 - Insert the connector completely straight. Inserting it at an angle can cause a short between pins, which may lead to fire or breakdown.
- **Unplug the telephone cable before moving the USB-PSTN modem adaptor**
Moving it with the telephone cable still connected may damage the cable or lead to fire, electric shock, or injury if the USB-PSTN modem adaptor drops or falls over. Also be careful not to drop the USB-PSTN modem adaptor.
- **In direct sunlight or near a heater**
There is a risk of deformation or breakdown.
- **Locations of excessive vibration**
- **Locations with strong electromagnetism**
- **Locations with excessive sand**
In locations such as the seashore and other sandy areas or where dust clouds occur, protect the USB-PSTN modem adaptor from sand and dust. There is a risk of breakdown.

Precautions on Handling

- Using the USB-PSTN modem adaptor reduces the amount of time you can use your camcorder, because they share the camcorder's battery.
- When not using the USB-PSTN modem adaptor, disconnect it from your camcorder to prevent your camcorder's battery from going flat.
- Do not lift your camcorder by the USB-PSTN modem adaptor or its cable.
- Do not pull out the connector by pulling the cable.
- Do not bend or apply excessive force to the cable.

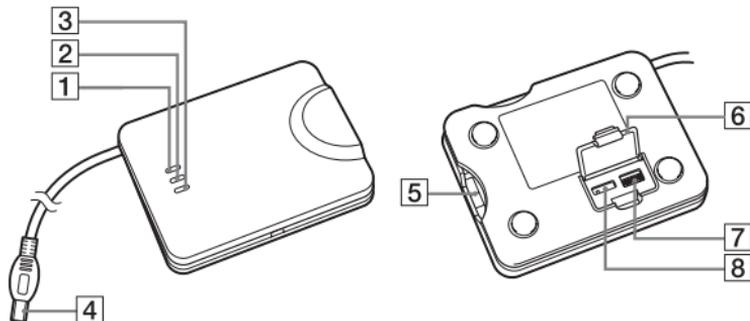
Maintenance

Wipe the USB-PSTN modem adaptor with a soft dry cloth. If the USB-PSTN modem adaptor is very dirty, wipe it using a cloth with a little neutral solvent added, and then wipe it dry again.

Do not use thinners, benzine, alcohol, etc., as they will damage the surface of the USB-PSTN modem adaptor.

Parts identification

When connecting the USB-PSTN modem adaptor, do so correctly by checking the shape of the connectors.



1 POWER lamp (green)

2 ON LINE lamp (orange)

3 DATA lamp (orange)

4 USB connector

5 RJ-11 connector

6 Switch cover

7 AREA CODE switches

8 TONE/P1 (PULSE10)/
P2 (PULSE20) selector

USB connector : For connection to USB compatible camcorders

RJ-11 connector : For connection to a telephone cable

Glowing the lamp function

Lamp	POWER (green)	ON LINE (orange)	DATA (orange)
Communication standby	●	-	-
Dialing	●	●	-
Data transmission	●	●	☀

● : The lamp turns on

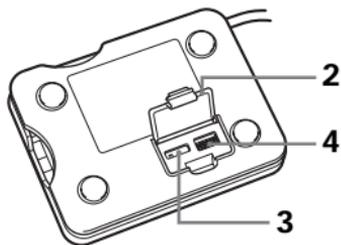
☀ : The lamp flashes

Before Use

- This USB-PSTN modem adaptor is exclusively for use with a USB network adaptor compatible camcorder. Before use, refer to your "Network Function/Application Operating Instructions".

Setting up the unit

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



- (1) Be sure that this unit is not connected to the USB-PSTN modem adaptor compatible camcorders or a RJ-11 cable (telephone cable).
- (2) Open the switch cover.
- (3) Select the telephone signaling type with the TONE/P1 (PULSE10)/P2 (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 a pulse dialing phone" on page 8.

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 9.

Setting up the unit (continued)

- (5) Close the cover.
The setting is completed.

Notes

- If the TONE/P1 (PULSE10)/P2 (PULSE20) selector is not set to the appropriate position, you cannot communicate with the camcorder.
- If you cannot check the dial speed of your pulse dialing phone, set the TONE/P1 (PULSE10)/P2 (PULSE20) selector to P1 (PULSE10).
- In some countries and areas, TONE/P1 (PULSE10)/P2 (PULSE20) setting is not required.

In such a country or area, the USB-PSTN modem adaptor communicates by the telecom protocol in that country or area, regardless of the TONE/P1 (PULSE10)/P2 (PULSE20) setting.

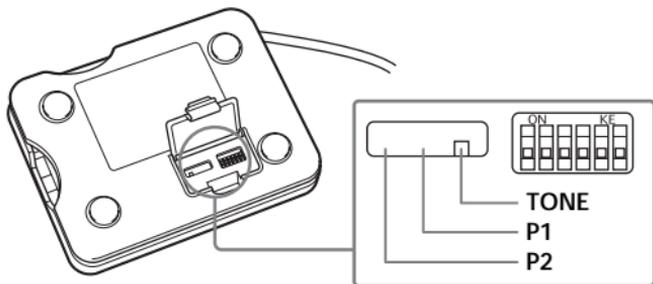
To check the dial speed of a pulse dialing phone

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/P1 (PULSE10)/P2 (PULSE20) selector to P2 (PULSE20).

The setup of the AREA CODE switches

The default AREA CODE setting is “Japan”.

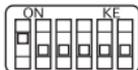
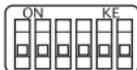
Set the AREA CODE switches to the appropriate positions using a sharp-pointed object following the information given in the table below. You cannot use the unit in areas other than the areas indicated on the table.



Notes

- “1” for the parameter in the table indicates that setting the switch to the ON side.
- The relationship between the 6-digit numbers in the table and the switch positions is as illustrated below.

(e. g., when you set to Japan) (e. g., when you set to the USA)



The setup list for the AREA CODE switch

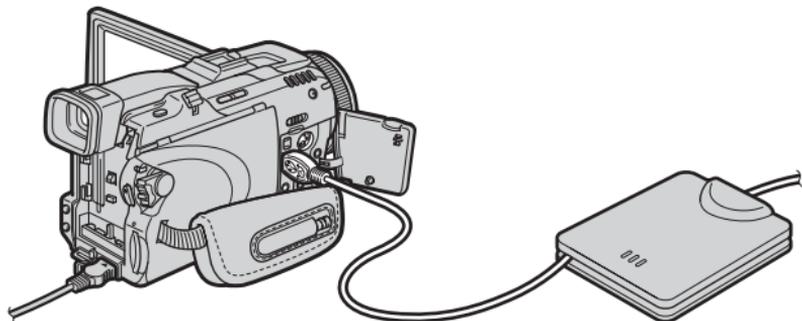
Country or area	Parameter	Country or area	Parameter	Country or area	Parameter
Japan	000000	Greece	110100	Sweden	010110
United States	100000	Ireland	101100	Switzerland	110110
Australia	010000	Italy	011100	Taiwan	001110
Austria	110000	Netherlands	010010	United Kingdom	101110
Belgium	001000	New Zealand	110010	Canada	100000
Denmark	111000	Norway	001010	Hong Kong	100000
Finland	000100	Portugal	011010	Luxembourg	001000
France	100100	Singapore	111010		
Germany	010100	Spain	100110		

Preparation

To connect to the Internet, first you must connect the USB-PSTN modem adaptor to a USB network adaptor-compatible camcorder.

Connecting to a telephone line with a PSTN modem adaptor

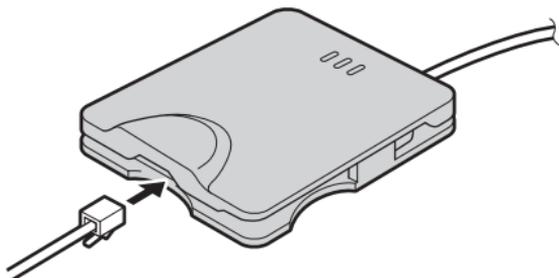
Connect to the Internet via a telephone line using a USB-PSTN modem adaptor.



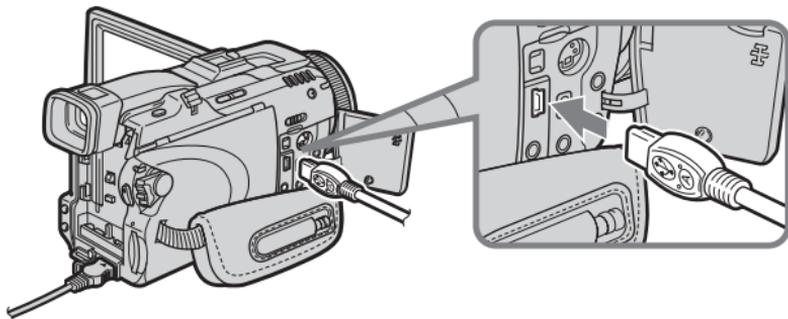
- 1** Connect the telephone cable (not supplied) to this unit and the modular jack of the telephone.

Note

A telephone cable is not supplied with this USB-PSTN modem adaptor. Please prepare the telephone cable for the Australia / New Zealand domestic.



- 2** Attach the USB-PSTN modem adaptor's USB connector to Ψ (USB) jack of your camcorder.



Note

The position of Ψ (USB) jack varies from model to model. For details, refer to your USB network adaptor compatible camcorder's instruction manual.

- 3** Set your USB network adaptor compatible camcorder's power switch to "MEMORY/NETWORK" to display the Network Menu.

Your camcorder is now ready for communication.

Note

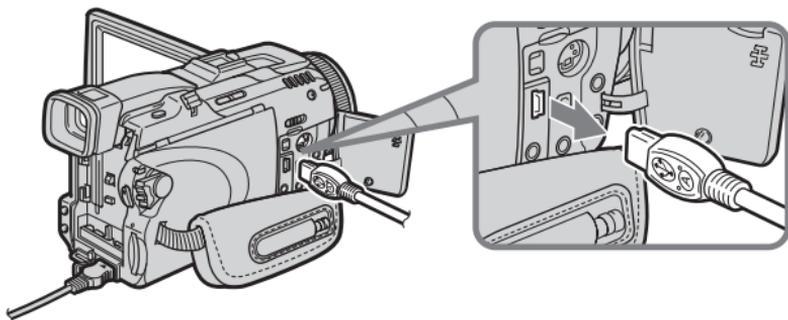
Connect the USB-PSTN modem adaptor directly to your USB network adaptor compatible camcorder. The camcorder is not compatible with a USB hub.

Accessing the Internet

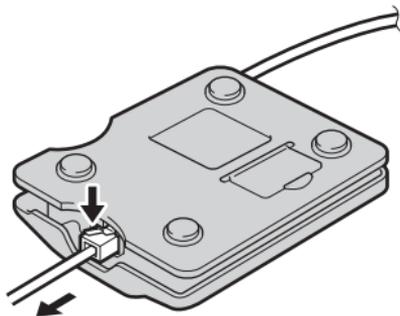
For details of how to log on, refer to your USB network adaptor compatible camcorder's "Network Function/Application Operating Instructions".

Disconnecting the USB-PSTN modem adaptor from your camcorder

- 1 Remove the USB-PSTN modem adaptor's USB connector from the USB (USB) jack of your camcorder.



- 2 Remove the telephone cable from the USB-PSTN modem adaptor.



Troubleshooting

Before sending the USB-PSTN modem adaptor for repairs, read this manual and the support information on our website <http://www.sony.net/>. If the USB-PSTN modem adaptor still does not work properly, consult your Sony dealer or local authorized Sony service facility.

Symptom	Cause/Measures
A USB error occurs ex) Connection Error Connect USB Device	<ul style="list-style-type: none">• Check that the USB-PSTN modem adaptor is correctly connected to the USB terminal of your USB network adaptor compatible camcorder. If it is not, reconnect it.
A PPP error occurs ex) Connection Error Check phone line	<ul style="list-style-type: none">• The AREA CODE switch is incorrectly set.<ul style="list-style-type: none">→ Set it correctly. For details, see “Setting up the unit” (page 7).• The line is busy. (Another device is using the phone line.)<ul style="list-style-type: none">→ Try again when the other device has stopped communicating.• Cannot connect to the other telephone line.<ul style="list-style-type: none">→ Wait a while before trying again.• Cannot communicate well sometimes depending on the status of the telephone line.<ul style="list-style-type: none">→ Turn off the camcorder, turn it back on, then try to communicate again.• The USB-PSTN modem adaptor cannot be used with a home or business telephone line. (Never connect it to a home or business telephone line. Doing so can lead to malfunction, overheating and fire.)

Specifications

Modem part

Applicable line	Analog telephone line
Interface for the telephone circuit	2-wire analog 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
Error correction	MNP Class 4/10, ITU-T V.42
Data compression	MNP Class 5, ITU-T V.42bis

USB interface part

Telecommunication standard	USB compatible
Interface connector	Mini-A plug
Transmission rate	max. 12 Mbps
Power supply	Bus-powered
Operating voltage	DC 5 V (supplied by USB interface)
Power consumption	max. 250 mA

General

Outer dimensions	approx. 86 × 17.1 × 65 mm (3 1/2 × 11/16 × 2 5/8 in) (width × height × depth)
Weight	approx. 54 g (1.9 oz)
Operating temperature	0°C ~ +40°C
Storage temperature	-20°C ~ +60°C

Accessories

Operating Instructions (1)

Design and specifications are subject to change without notice.

<http://www.sony.net/>



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