

viliv

Mobile Internet Device

X70 EX

User's Manual



This guide may be changed for product improvement without prior notice.



Thanks for purchasing viliv.
Please read the precautions
thoroughly before using the product.

viliv

Copyright

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Certification

This device has acquired EMC certification for home use (Class B) and is designed not only for use in residential area but anywhere.



Grade B Device
(Broadcast Communication Device for Residential Area)

Registered Trademark

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Infringement of Intellectual Property Rights: Playing, copying or distributing any part or all of any copyrighted contents such as software, music or video with this device may infringe on a third party's legitimate intellectual property rights or violate copyright law. All legal responsibilities for the infringement of copyright or intellectual property rights from the use of this device lie with the user.

Improper Use: The manufacturer of this device is not liable for any damage or improper use and operation by using this device and infringement of copyright and portrait right by user when taking photos. In addition, the manufacturer is not liable for bodily injury or property damage that may occur arising from inappropriate use other than operation standards or conditions.

Data Loss: Any audio, video or photo files stored in this device may be deleted due to damage or operational error caused by user's careless handling or unknown failure or when the device undergoes warranty repair. Therefore, the files must be backed up in a separate place. In these cases, the manufacturer is not liable for the loss or damage of data stored in the device.

Specification Change: The standards, accessories, embedded software and manual contents of this device may be changed without user's prior consent or prior notice to the user.



Safety Precautions for Use

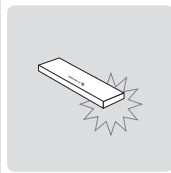
The precautions below are provided to prevent bodily injury or property damage by using this product correctly. Please observe the precautions.

Precautions on Power



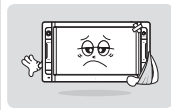
- Do not touch the power adapter with wet hands.
- Plug the power cord into an outlet with grounded jack.
- Be sure the plug goes in all the way and is not loose.
- Do not use your device if it is damaged, including an exposed or peeled power cord.
- If lightning occurs nearby or if you are absent for a long time, unplug the plug from the outlet.

Precautions on Battery



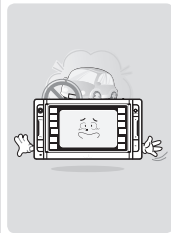
- Do not apply strong impacts or make a hole with a sharp object.
- Do not leave the battery in a hot place such as sauna or bathroom or otherwise heat it.
- Do not let the battery become wet or immersed in liquid.
- Do not allow children or pets to bite or suck the battery.
- Keep the battery charging port away from metals.
- When disposing of the battery, do not burn it or throw it away in domestic trash. Dispose of the battery at the nearest disposal place for batteries after contacting your local water disposal agency.

Precautions for the Device



- Avoid exposing to direct sunlight and do not leave in a closed car.
- Do not leave the device in a dusty place or a humid place such as a bathroom.
- Keep the device away from credit cards, bankbooks, or a communication ticket.
- Do not use accessories that are not provided with this device.
- Do not touch the LCD screen with a sharp object.

Precautions in Use



- Do not listen to music at a high volume for a long time.
- Do not watch the video for too long a time.
- Do not use headphones/earphones while driving, walking or using public transport.
- Do not apply strong impacts on the LCD.
- If the device begins to smoke or become deformed by heating, stop using it immediately and contact your nearest Customer Service.
- Do not use the device in a hospital, on board a plane or while driving.
- Do not directly put and use the device frame or the power adapter on your bare skin for a long time. The temperature of the station may rise even during normal operation. If you continue to use the device on your bare skin (in particular, when the adapter is connected), you may feel uncomfortable or receive a burn.

Other Precautions



- If the device is wet, do NOT turn on the power. Separate the battery and wipe it with a soft dry cloth. After that, contact Customer Service.
- When cleaning the device, wipe it with a soft dry cloth and do NOT use chemicals, such as benzene or thinner.
- Do not repair, disassemble or alter in any manner.
- Do not allow any liquid or foreign materials to get inside the device.
- Do not drop the device.



Safety Precautions for Use



Warning

Please observe the instructions below. Failure to do may cause heating, fire, explosion, etc.

- If the battery can be seen to be swollen, there may be imminent danger. Immediately contact the manufacturer or sales representative.
- Only use an eligible specified charger.
- Keep the device away from open flames. (Do not put it in a microwave.)
- Do not leave the device in a car in summer.
- Do not store or use the device in a hot and wet place like a bathroom.
- Do not put the device on bedclothes, electric mattress or carpet and use it for a long time. (For a portable battery for computer.)
- Do not store the device powered on in a closed space.
- Do not allow metal products, such as a necklace, coil, key or watch, to touch the battery port. (For a portable battery for computer.)
- Do not use a lithium secondary battery guaranteed by a portable device manufacturer.
- Do not disassemble or pierce the device and do not apply excessive strength.
- Do not apply excessive impact like dropping the device from a high place.
- Do not expose the device to high temperatures of 60°C or higher.
- Avoid humidity.

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information

This device complies with Part 15 of 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.

Information to User

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 RF Exposure Information

In August 1996 the Federal Communications Commission(FCC) of the United States with its action in Report and order 96-326 adopted an updated safety standard for human exposure the ra-dio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of 'X70 EX' complies with the FCC guidelines and those international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage your 'X70 EX', or result in violation of FCC regulations.

'X70 EX' was tested for typical body-worn operation using the optional belt-clip / holster placed touch(0mm) from the body. The use of non-tested accessories or other body-worn operations may not comply with FCC exposure requirements and should be avoided.



Safety Precautions for Use

The device functions vary depending on model.

Read the relevant precautions for the provided function before using the device.

Precautions for GPS



- When initially operating this device, it is recommended you warm it up for over 15 minutes under a clear open sky and open area.
- If the vehicle equipped with this device is not used for 7 days or longer, the data storage recharger inside the GPS may be discharged and require warming up time of over 15 minutes.
- GPS signals are high frequencies around 1575 MHz so they may be affected by bad weather, such as rain and fog, and electromagnetic interference and the reception rate of the GPS may deteriorate.
- When the GPS receiver is under an elevated road, inside a tunnel, in a densely built-up area or near a high-voltage line, it is difficult to receive radio waves so GPS reception may fail.
- The GPS receiver may not work normally in some vehicles with UV coating, sun-black coating or electromagnetic interference.
- The operational temperature of the GPS receiver is between 0°C and 50°C. Problems may occur in midsummer or severe winter so maintain an appropriate temperature.
- On some roads running parallel to a driveway or an elevated road, the information on speed limits or dangerous sections for speeding may not be accurate.

Precautions for the Bluetooth



- Do not attempt to operate the Bluetooth while driving. Accidents caused by such improper handling are the sole responsibility of driver.
- To prevent electromagnetic problems or other dangers, turn off the Bluetooth setting wherever the use of Bluetooth is inhibited.
- If you use a certain medical device, such as a pacemaker or a hearing aid, ask the manufacturer of the relevant device if it is correctly cut off from energy sources before using it. If necessary, you may ask for some assistance from your regular doctor.
- This device satisfies Bluetooth standards 2.0. Some Bluetooth devices may not be fully compatible with this device. For detailed information on compatibility, contact the manufacturer of the relevant device or our Customer Service.
- This wireless equipment may experience electromagnetic interference, so it is not permitted for use by a life-saving service.

Precautions for Navigation

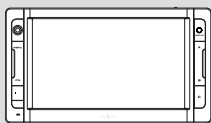


- Placing the device where it blocks the driver's view or is within the driver's operation range for driving may cause an accident. Adjust the volume to an appropriate level so that it does not disturb while driving.
- Fix the device rack onto the windshield securely so that it will not fall or move while driving.
- If the rack is attached onto the windshield for a long time, its adhesion may become weak and it may fall. Therefore, if you are not going to use the device for a long time, separate it and keep in a safe place.
- Do not disassemble and attach it inside a vehicle in any manner. To do so may affect the electrical system and GPS reception sensitivity and lead to a fire.
- Do not separate the cigar jack from the vehicle while using the device. To do so may cause a malfunction.
- Set the device up where it does not block the driver's view or is not in the way of the airbag's operation.

Names of Parts

The appearance of the components below may differ from the actual components and some components are subject to change.

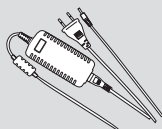
Basic Components



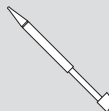
Main Body



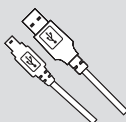
Standard Removable Battery



AC/DC Power Adapter



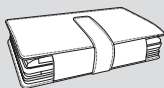
Stylus Pen
(embedded in the main body)



USB Cable



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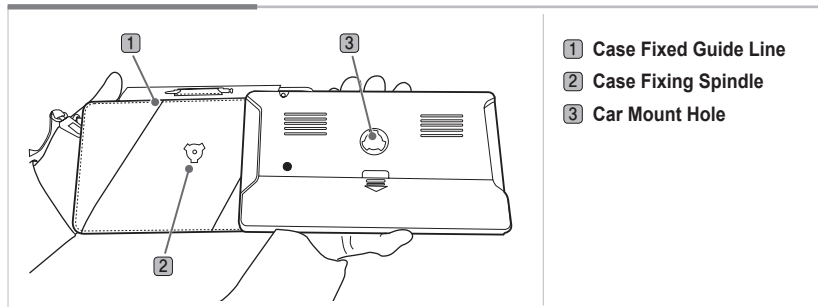


Leather Case



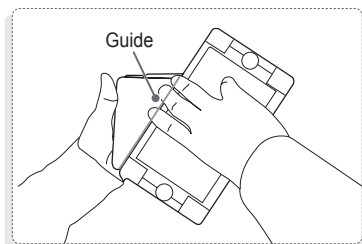
Names of Parts

Case Use Method

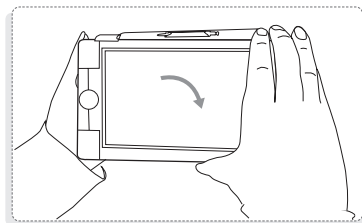


With a 45 degree angle lean X70 EX and X70 EX car mount hole is attached to case in which fixing spindle.

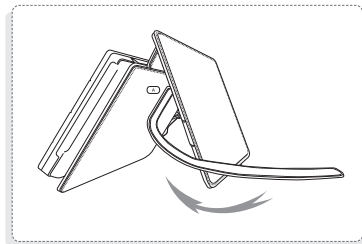
Place X70 EX depending on guide line in X70 EX case.



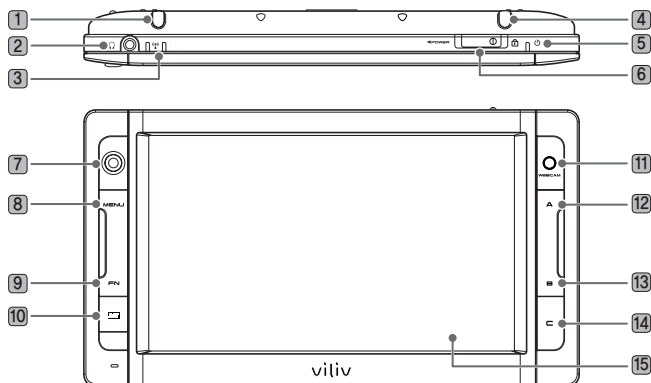
Finally holding the case with left hand and rotate right 45 degrees the location of X70 EX with right hand in guide line.



Can use to MID mount as moved the belt of case flap to picture A for fixing magnet.

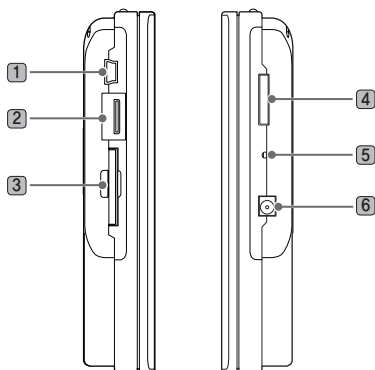


Top/Front View



- 1 Stylus Pen** Stores a stylus pen.
- 2 Earphones Port** Connects earphones.
- 3 Operation Indicator**
WLAN Indicates the status of the WLAN equipment operation.
HDD Indicator Turns on when accessing the HDD.
- 4 -**
- 5 Power Status Indicator** Indicates the status of power connection.
- 6 Power/Hold Switch** Provides Power On/Off and key input locking functions.
- 7 Jog Dial** It is used to move in Up↓/Down↑/Left←/Right→ direction on screen.
- 8 Menu Button** Moves to main menu.
- 9 FN** BIOS Mode F8 (Advance Win XP Mode)
Win XP Mode F10
- 10 Virtual Keyboard** Activates viliv virtual keyboard.
- 11 WEBCAM** Equipped with a web camera.
- 12 A** BIOS Mode ESC
Win XP Mode OK (Left mouse button)
- 13 B** BIOS Mode F11 (Popup board)
Win XP Mode Right mouse button
- 14 C** BIOS Mode F10 (Recovery)
Win XP Mode User-defined mode
- 15 TFT LCD/Touch Screen** The user can operate the device on the touch screen.

Left/Right View



- ① **USB Data Link** It is used to connect a terminal computer.
(* For connection method, refer to detailed manual.)
- ② **USB Port** It is used to connect another external device with a USB cable.
- ③ **SD Card Slot** It is used to insert an SD/SDHC card.
- ④ **Multi I/O Port** It is used with external video out (Component, composite and S-Video) and to connect an extension I/O pack.
- ⑤ **RESET** If you press this button with a pointed object, the device restarts.
- ⑥ **Power Adapter Port** It is used to charge a battery or connect a power adapter for the use of the device.