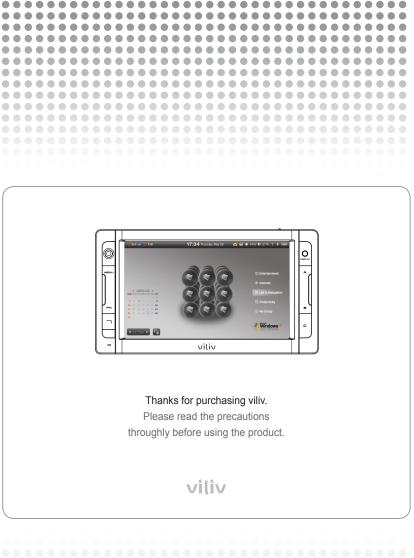
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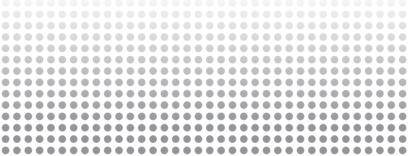


User's Manual



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





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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

viliv is the registered trademark of Yukyung Technologies Corp.

Windows 2000, Windows XP and Windows CE are the registered trademarks of Microsoft Corporation.

Liability Disclaimer

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.

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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

No. 10 AND	 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

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- 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 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.

- MID



Safety Precautions for Use

A 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.
- 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.
- 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:

 This device may not cause harmful interference, and
 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 guality, damage your 'X70 EX', or result in violation of FCC regulations.

'X70 EX' was tested for typical body-wom operation using the optional belt-clip / holster placed touch(0cm) from the body. The use of non-tested accessories or other body-wom 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.

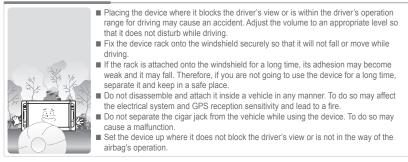
Precautions for GPS

Tull	 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-block 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.
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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



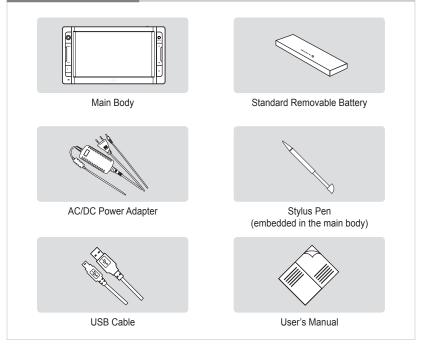
WiFi and 3G Modem (or HSDPA, HSUPA) do not operate simultaneously.



Names of Parts

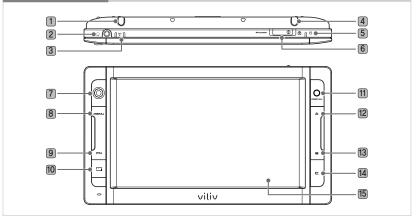
The appearance of the components below may differ from the actual components and some components are subject to change.

Basic Components





Top/Front View



- 1 Stylus Pen Stores a stylus pen.
- 2 Earphones Port Connects earphones.
- 3 Operation Indicator

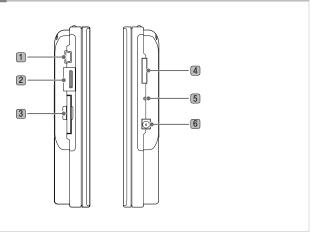
WLAN Indicates the status of the WLAN equipment operation. HDD Indicator Turns on when accessing the HDD.

- G 3G Modem Built-in antenna. (Optional)
- 5 Power Status Indicator Indicates the status of power connection.
- 6 Power/Hold Switch Provides Power On/Off and key input locking functions.
- Jog Dial It is used to move in Up↑/Down↓/Left←/Right→ direction on screen.
- 8 Menu Button Moves to main menu.
- Image: BIOS Mode F8 (Advance Win XP Mode) Win XP Mode F10
- 10 Virtual Keyboard Activates viliv virtual keyboard.
- **WEBCAM** Equipped with a web camera.
- A BIOS Mode ESC Win XP Mode OK (Left mouse button)
- 13 B BIOS Mode F11 (Popup board) Win XP Mode Right mouse button
- C BIOS Mode F10 (Recovery) Win XP Mode User-defined mode
- **IFT LCD/Touch Screen** The user can operate the device on the touch screen.

MID (8) English



Left/Right View

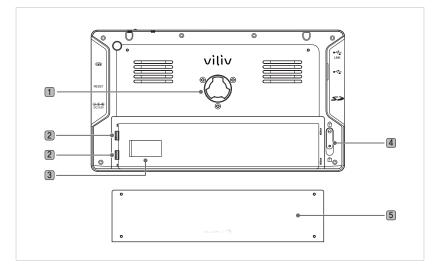


- **USB Data Link** It is used to connect a terminal computer.
- **USB Port** It is used to connect another external device with a USB cable.
- **3** SD Card Slot It is used to insert an SD/SDHC card.
- Multi I/O Port It is used with external video out (Component, composite and S-Video) and to connect 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.



Rear View

The figure below shows the rear side of the main body without the battery. (Refer to Page 13 for Separating/Attaching battery.)

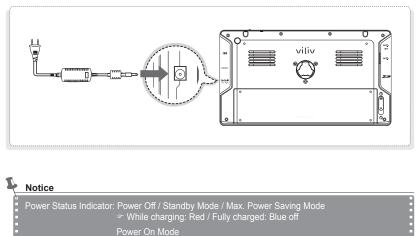


- 1 Rack Connection It is used to connect a device rack.
- **Battery Charging Port** Connection part of battery terminal.
- 3 Connection Part of Battery Terminal Mounting slot for USIM card (Refer to Page 14 for inserting/extracting an USIM card.)
- Separating/Attaching Battery Push the battery downward to separate the battery, as shown in the figure above.
- 5 Battery



Power Connection (Charging Adaptor)

The charger is connected to the power adapter terminal on the left side of the station.

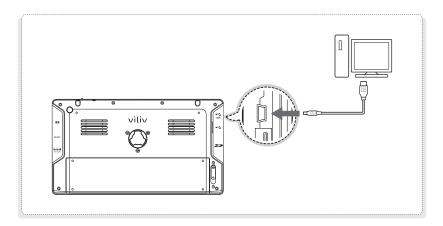


The while charging: Red / Fully charged: Blue



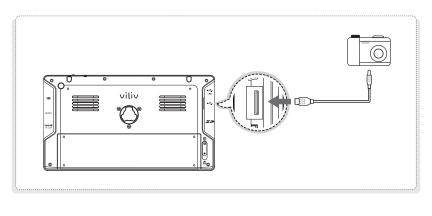
USB Data Link Connection

A USB cable is connected to the USB Data Link port on the right side of the station.



USB Connection

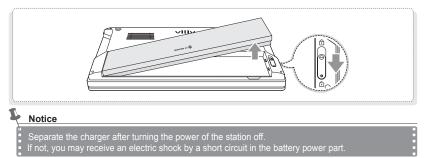
This is used for the connection of external devices, such as digital camera, external HDD, etc.





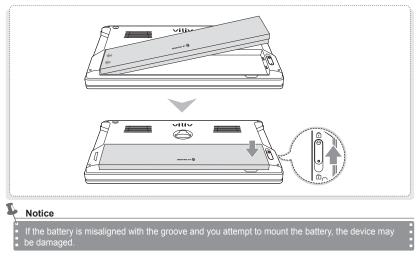
Separating Battery

Depress the Battery Separation/Lock button on the rear of the station in figure. Slightly push the battery up in the battery separation groove and then separate the battery.



Attaching Battery

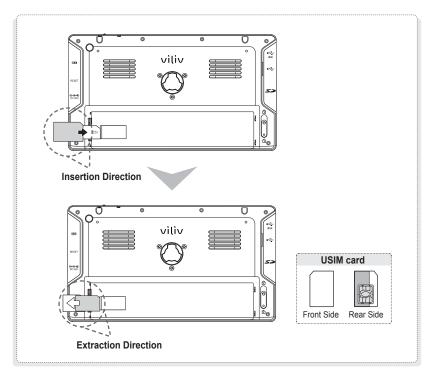
Align the battery in the groove as shown in the figure below and then press it until it is closely attached to the main body. Push up the Battery Separation/Lock button on the rear of the station in figure below.





Inserting · Extracting USIM Card

- How to Insert ↑: Let the front of a USIM card face the USIM card slot and then push it in the arrow direction until a click sound is heard. (If, however, you push the USIM card using too much force, the card may be damaged.)
- How to Extract & : Since this device adopts a one-touch method, you may gently press on the end of the USIM card to extract it automatically. (Pull out the USIM card slightly protruded.)



Notice

Please, turn the power of the station off before inserting or extracting the USIM card.

MID (14) English



Basic Operation

Turning the Power On/Off





To turn the power on, move the Power button on the top of the station to the left.

The LCD screen turns on and the main screen is displayed.



Turning the Power Off

If Windows OS is running, turn the power off with the Turn the Power menu on the Start menu. If the system is stopped during the operation, move the Power button on the right side to the left side and hold the button for over 4 seconds to turn the power off.

- Since the file that your are working on is closed without saving, it is better not to use this function.
- If you turn the power off with the button, this function is performed in accordance with the power option specified in Windows OS.

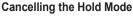
Setting/Cancelling Hold Function



Hold Setting

Move the Hold button on the top of the station to the **right**.

Once the lock function is set, the screen touch function and all of the button functions are not available.



Move the Hold button on the top of the station to the **left**.

Once the lock function is set, the screen touch function and all of the button functions are not available.

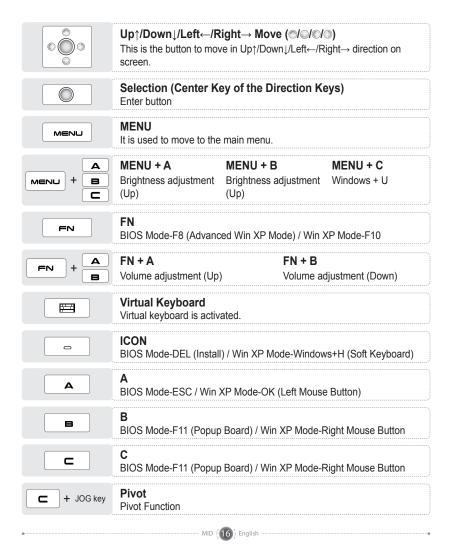


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Jog and Function Buttons

The Jog key has different functions in accordance with the program functions.





Basic Operation

Running Virtual Keyboard



Running the Virtual Keyboard

Press the vilivSoftKeyboad icon on the screen. (You maypress the 🖽 of the device to run the virtual keyboard.)

Hiding the Virtual Keyboard

If you press the Hide icon on the virtual keyboard, the keyboard is converted into the **(** icon.

 \triangleright To return to the original status, press the **(** icon again.

Exiting the Virtual Keyboard.

Press the Virtual Keyboard button on the device to exit the Virtual Keyboard.

Set Up for villv Manager

viliv Manager is executed by double touching vilivManager on the screen.

oilliantanae

viliv Manager - X70 EX		1 '
WiFi & Bluetooth	Booting Option	
ON OFF	Last Status 💌	2
2 Camera	Booting Option	
ON OFF	Last Status	3
3 Modem	Booting Option	
ON OFF	Last Status 💌	4
6 LCD Brightness		
T - 1	<u></u> +	
		5
6 Vibration		
Use in Softkeyboard	•	•
Windows Start Option —		6
Cube UI	viliv Manager	
System Info Clos	e Set Defualt	
	ver 0.9.i	

- 1
 Wireless LAN Power

 Turn on/off self-powered wireless LAN function.

 2
 Camera Power

 Turn on/off self-powered Camera function.

 3
 Modem Power

 Turn on/off self-powered Modem function.
- Windows Booting Option
 1. OFF: Always start with OFF status.
 - 2. Last Status: Start with the last status.
 - 3. ON: Always start with ON status.
- 5 Brightness of LCD Adjust by status bar or -, + button.
 - Setting Vibration
 - 1. No Use: Do not use vibration function.
 - 2. When using soft keyboard: Operate only if soft keyboard is used.
 - 3. Always Use: Operates when operating for all touches.
- 7 | Set Up for Windows Start Program
 - 1. Set whether or not to execute Cube UI automatically.
 - Set whether or not to execute viliv Manager automatically.



Using for the First Time

For each Windows installation process, the installation time may vary depending on the process. Please wait until the installation is complete.







The screen related to automatic update appears. After the selection, click next.

It may take a couple of minutes. Please wait for a moment.

- S The screen to assign the computer name appears. To do this, an external keyboard is needed. If you don't have an external keyboard, you can click next to assign the computer name, or you can open the video keyboard on Microsoft Utility Manager by pressing the menu button of the product and the user registration button of <u>C</u> + MENU shape on the lower-left corner simultaneously to enter the computer name. Microsoft video keyboard may not support the input of Korean letters. If you want to assign the computer name later, you can assign in computer control panel → system registration information → computer name.
- Windows
 Management
 Constraints
 Constraints
 - 6 The screen asking "Do you want to register on the internet?" appears. After selecting Yes or No, click next.
 - The screen showing completion of the installation process appears. Click next.

MID (19

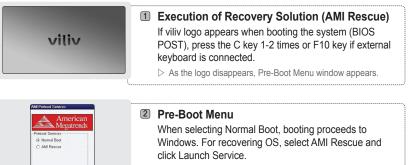
The installation of Microsoft Windows XP Home is complete. Please wait for a moment. The screen for Windows wallpaper will appear shortly.



Recovery Solution (AMI Rescue) Guide

As an image-based OS recovery solution, it recovers to the initial status of shipment from factory when HDD of user cannot be booted from OS or it has problems.

Way to Use Recovery Solution (AMI Rescue)



> AMI Rescue Lite-Wizard appears.



Launch Service

3 AMI Rescue Lite-Wizard

When clicking **Restore OS** button, a message that confirms the recovery of OS is displayed. If you press **Yes (Y)**, it starts the recovery of OS.

If the process of OS recovery is completed, a message that confirms the successful recovery is displayed. (Partition 0 on disk 0 was successfully restored.)

If you press **OK** button, the system is booted again automatically.

Now, if you boot to Windows, OS will be in the initial status of shipment from factory.

Notice

- When recovering OS, recover by connecting battery adaptor.
- Since data is deleted in case of recovery, make sure to back up the data beforehand.
- Please wait for 20 sec when black screen is showing to prepare boot up the Windows VISTA.
- It will take a time more for Windows VISTA Users.



Specifications

The specifications below may be changed for enhancement of product performance without prior notice.

General Specifications

Product Name	X70 EX	
CPU & Chipset	Intel _® Atom [™] 1.2 (Z515) / 1.33 (Z520) GHz + SCH US15W	
LCD	7-type WSVGA (1024 x 600) / Touch panel	
RAM	1GB	
Storage	SSD 16GB / 32GB / 64GB / 128GB	
WWAN (Optional)	WIMAX; HSDPA	
LAN	IEEE 802.11b/g	
Bluetooth	Bluetooth Ver2.0 + EDR	
GPS (Optional)	SiRF Star II	
Connector	Audio x1, USB x1, USB (Link) x1, Multi I/O x1, SD/SDHC Slot x1	
Audio	Stereo speakers	
Battery	Lithium Polymer (Removable) Voltage: 7.4V Capacity: 4,100mAh	
Dimension	210 (W) x 117 (H) x 22.5 (T) mm	
Camera	1.3Mega pixel	
OS	Windows XP Home Edition	
Operation Temperature	0°C ~ 40°C	







viliv