USER MANUAL

SEOUL STANDARD Co., Ltd.

Rugged Notebook
UC-26KS

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■ Why Choose Rugged Technology?

Rugged technology is specifically designed for life on the road and work in the field. Computers that are weather-proof, drop-proof, extreme altitude and temperature capable, and just plain tough will allow you to work or play wherever you want.

■ The benefits of rugged technology:

 Improved Productivity - a whole host of fieldwork-friendly features save you time and hassle. Batteries are designed to keep you working, port covers are designed to be operating with gloves on, and screens are readable in direct sunlight. Plus you don't need to run for cover or hunch under a plastic bag every time it rains!

 Less "downtime" - equipment taken out in the field is always going to get wet, muddy, or dropped. With a rugged machine that keeps on working your vital work won't be held up when the inevitable happens.

 It safeguards your work - once you have devoted your time and resources to gathering data, don't lose it just because the computer gets some water in it or is dropped.

 Longer life - rugged computers are designed to just keep on going... And with our upgrade service available on many models, you won't even need to call it a day when the technology inside the case is out-of-date.

These factors combine to reduce the total cost of ownership of your computer, and with our flexible finance options you don't even need to pay for your investment all at once. Please ask any of our sales team about our finance lease and hire purchase options. Finance options are subject to status.

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INFORMATION TO THE USER (Part 15.105(b))

INFORMATION TO THE USER

This equipment has 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 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.

WARNING(Part 15.21)

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

"Note : The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment."

About This Guide

This guide contains the information you need to set up and use your new UC-26KSS rugged notebook computer.

Chapter 1 : Introduction

Read Chapter 1 for a general introduction to your notebook. This chapter contains illustrations describing the notebook's main parts. It also summarizes the computer's main functions.

Chapter 2 : Getting Started

Read Chapter 2 for instructions on starting and shutting down your notebook.

Chapter 3 : Using Your Notebook

Read Chapter 3 to learn basic information about using your notebook. This chapter describes how to use the keyboard, functions, and the Touch Screen.

Chapter 4 : Connecting and Installing Optional Devices

Read Chapter 4 for instructions on connecting optional peripheral devices such as a mouse, a printer, or an external keyboard. This chapter also includes information about installing optional internal devices such as expansion memory modules.

Chapter 5 : The Power System

Read Chapter 5 for information about the notebook's power system. This chapter covers the AC adapter, the battery system, and the notebook's power management features.

Rugged Notebook UC-26KS

Introduction

CHAPTER

1

1. Introduction

Congratulations on you purchase of the UC-26KS rugged notebook PC.
This chapter will help you become familiar with your rugged notebook feature.

Welcome to the Rugged Notebook

Your UC-26KS rugged notebook PC is designed for easy, ergonomic use and features the most innovative advances in portable computing technology. Personal computer area is classified as commercial computers, Rugged portables and Rugged Rack mount computers.

Your UC-26KS rugged notebook is toughly constructed Pentium-III grade high performance, multi-functional portable computer withstanding harsh environment and designed & certified for testing high & low temperature, humidity, vibration, shock, water proof per military specification test procedure of MIL-STD-810E.

This manual contains the UC-26KS's maintenance instructions and classified roughly as following:

Generals

This part describes general informations and main functional part's location and description, and technical specification, operating mechanism of UC-26KS.

Block Diagram

This part describes the block diagram of UC-26KS.

Maintenance instruction

This part describes the User's maintenance instructions of UC-26KS and consists of Introductions trouble shooting & repair chapters. The Trouble shooting & Repair process descriptions are restricted on User level's possibility.

Warning, Caution, Note

This manual marked as "Warning, Caution, Note" to prevent inappropriate service at each procedure on each level.

Warning is marked for preventing human's harm can be occurred on operating & maintenance of personal computers. Following is an example form.

"**Warning** " Seriously damaged if not keep Safely rules.

Caution is marked for preventing Equipment's damaged & break down not regarded with human's harm and following is an example.

"Caution" Care not to shock on the equipment during transport, can be seriously damaged.

Note shows key information key information of personal computer's operating & process not regarded with human's harm or damage of equipment. Following is an example.

"Note" To stop the equipment , see the procedure of operation stop's instruction.

Warrtenty
UC-26KS is guaranteed by Manufacturer for one(1) year after acceptance.
If any defect found in equipment or operation, report it as per Army regualation.

Crush of equipment and materials not for being used by enemy

If this equipment is in front of being captured by enemy or abandonment (leaving amours and retreat), the crush can be performed by user's corps on commander's decision and performed only by order of commander or instruction regulations by commander.

1. Crush of Data
   Crush HDD at first of all by any crush measure.
2. Break down
   Completely break down any cable connectors and jack, lamp socket, switch, coil by hammer, hand ax, hoe etc.
3. Cut down
   Cut down all jumper cables, cords, fixtures, cables, power lines by ax, cutter, knife etc.
4. Burn out
   Burn out all cables, cords by gasoline, fuels, oils, flame thrower or incendiary etc.
5. Explode
Explode equipment by hand grenade, explosive etc.
6. Bent
   Bent it in order the main constitutions not to be used.
7. Disposal
   The remained materials after crushing as per above measure should be buried under ground or removed by throwing it in flowing water, river or lake.

Preservation and shipment

This paragraph records a guide about preservation and shipment of notebook.

Usage
If erosion, damage and defect is detected after inspection, it can be handled by 'Amrmy Regulation Munition Supply Disposal'.
1. It should be handled by 'Army Regulation Munition Supply Disposal'.
2. Inspected and classified result should be handled by 'Army Regulation "Device and Resource maintenance.
3. Inspecton and lavage
   - Inspection of the device should be done systematically from the outside, and the lost or damaged parts should be exchanged or repaired.
   - When it is damaged by preservation, packiing, operation and carrying or can not be used, it should be handled by **'Army Regulation Device and Resource maintenance'**.

- To examine the status, Inpection should be done periodically by the naked eye, it can be necessity to be polish by towel and painted.

Shipment preparation

1. When the device is on shipment, responsible officer should check the supply of material needed to pack, mend and ship.
2. When it is took ouf of the warehouse to ship, It should be check that the device is perfect preservation status and userble.
3. Documentation about shipment should follow 'Army Regulation Transportation Service.

4. Data Preservation
   User saves current operation and then detaches the device.

Detachment of the device

1. Turn off the power before detachment.
2. Detachment procedure of the device
   - Seperate AC-DC adapter from the device.
   - Seperate power cable from AC-DC adapter.

Confirmation of the device

There are parts seperated from notebook(UC-26KSS) which should be packed.

1. Main body, portable bag.
2. Power cable, AC-DC adapter.
3. FDD Pack
4. CDROM Pack
5. bettery

Packing confirmation

1. Divide main body of notebook(UC-26KSS), battery power cable, AC-DC adapter, portable bag, then pack them with original box.
2. To prevent damage from shocking on moving, pack with sponge, styrofoam.

Inspection

1. Inspect that any parts seperated are missed and packed status.
2. If the device is damaged, draw up the list of the damaged device, so in case of reinstalling, It can do a measure suited to the occation. (Report it to manager and do suitable management)

Introduction of inspection and procedure of prevention

Maintenance of preventions is to prevent malfunction of the device, examine the device to work in good condition.

Before operation

Check all items of "Prior to operate check list", keep in mind of notes such as caution, attention.

During the operation
Check all items of "Maintenance check list of maintenancing".

After operation
Check all items of "Maintenance check list of posterior-maintenance".

Weekly check
Check the System is on good condition even if it is not used. And if the System is used long times in low temperature or high temperature, Check the System frequently and during not using the device, expanding checking time periode also.

On malfunction
Solve malfunction with appropriate maintenance / testing equipment, and report defect, when defect is detected.

Method and dealing of prevention maintenance & checking

Scope
1. Detect any defect before operation, after operation, during operation or weekly and repair it, to make notebook(UC-26KS) in good condition, before severe malfunction occurs.
2. Write, report contents of prevention maintenance by template and procedure in detail.
3. Check status of the device is in good condition before using it.
4. Stop operating, when defect is discovered by operating Checking. Troubleshoot the System by following lmaintenance procedure level steps.

Regular maintenance
1."Prevention maintenance & Checking duty table" is an indispensable condition for appropriate maintenance & operation
2. Other supplimentary device should checked per regarded explanation before and after operation, and during operation.

Maintenance operation
1. "Prevention maintenance & Checking duty table" contains all list of periodical prevention. Maintain the status of prevention so that the System is physicaly perfect and normally functional.
2.Prevention maintenance & Checking duty table is a guide for user to make good use of the device on misssion, and it also presents how to Check and what is normal.
3.Call manager of corps or outside help, when user can't correct defectives.

Maintenance time periode.
1. The System(UC-26KS)'s maintenance check is required every on-operation, daily, weekly and " Prevention maintenance, Checking and duty table" shows all checking points.
2.Maintain the System per Prevention maintenance & Checking duty table, during the System is not used.

Check No.	Check time				Check process (Check and repair or recover it during no need.)	Work time (Min)
	Bef -Op	Dur -Op	Aft -Op	Wky		
1					**1.System General(UC-26KS)**	
	○	○	○		A. Be careful not to drop the System, and not to put any objects on top of it.	
	○		○		B. When transporting, put the System in a carrying case.	
		○			C. Never turn off the System when the hard drive light is on. (Because data on the drive could be lost or corrupted)	
		○	○	○	D. Keep disketts, modular disk drives, and the System away from strong magnetic fields. (Magnetic fields can erase data on both diskettes and hard drives)	
		○				
				○	E. Create an emmergency diskett	
				○	F. Back up files.	
				○	G. Scan Hard drive	
				○	H. Defragment Hard drive.	
	○	○			I. Check for Viruses.	
		○			J. Manage Hard drive space.	
2					**2.Main body**	
				○	A. Check if System case is not damaged (cracked,crushed,corrosed,bent).	
	○				B. Check if any dirt or dust is in/on System, clean & remove it.	
	○				C. Check if any mechanical part attached is missing.	
	○				D. Check if any rubber cap is missing or degraded.	
	○				E. Check any screw is lossened.	
3					**3.LCD dispaly part**	
	○				A. Check status of appearance and bightness and adjust it.	
				○	B. Check if dirt or dust is on LCD display, and clean & remove it.	
	○				C. Check if Touch screen's transparent glass is not broken.	
	○				D. Check if LCD display's backside ventilation hole is not punctured.	
	○				E. Check operating status of front & top LEDs.	

Prevention maintenance, Checking duty table

Check No.	Check time				Check process (Check and repair or recover it during no need.)	Work time (Min)
	Bef -Op	Dur -Op	Aft -Op	Wky		
4	○			○	**4.Keyboard** - Check if any point of keyboard is damaged or punctured. - Check if dirt or dust is in/on keyboard, and clean &remove it.	
5	○ ○			○	**5.CD-ROM Drive** A. Check if CD-ROM drive pack is not damaged and check securely pluged in System. B. Check if CD-ROM drive is ejected, when eject botton is pushed. C. Check if dirt or dust is in CD-ROM drive by naked eyes, and clean & remove it with CD cleaning kit.	
6	○ ○			○	**6.Floppy Disk Drive** A. Check if FDD drive pack is not damaged and check securely pluged in System. B. Check if floppy disk is ejected, when eject botton is pushed. C. Check if dirt is in FDD by naked eye, and remove it with cleaning kit.	
7	○ ○	○		○ ○	**7.BATTERY** A. Check gas gauge status of BATTERY and charge it if not charged B. Check if battery is not clean or dusty, remove dirt and clean. C. Check if BATTERY is installed properly.	

Check No.	Check time				Check process (Check and repair or recover it during no need.)	Work time (Min)
	Bef -Op	Dur -Op	Aft -Op	Wky		
8	○ ○ ○ ○ ○			○	**8.Software Checking** A. Check if CMOS setup is proper and check it's system configuation in control pannel. B. Check if Windows booting process is smooth and complete. C. Check all device driver file is new and proper for installed O/S D. Test all Drive, Display, Interfaces, Multimedia, Network, Modem are functional. E. Check if commercial or developed software is normal.	
9	○	○ ○		○	**9.External Power Adapter** A. Check connection of Power adapter and if it is damaged. B. Prevent Power adapter from pulling out by pushing it to main body. C. Remove or clean dust,dirt,oil on Power adapter.	
10	○	○ ○			**10.Power Cable** A. Check connection of power cable adapter and if it is not damaged.. B. Prevent power cable from pulling out by pushing it to main body.	

Procedure of Emergency measures

Attention

Halt the device by “Halt procedure of the device”, if it could be halted with normal procedure, when troubles occur during operation. If power is cut out without following procedure, the device can be damaged.

1. When mouse doesn’t work, inspect the connection of mouse and if it isn’t connected, reconnect it.

2. Although keyboard takes the place of mouse when mouse is malfunctional, report it with procedure

3. This is function of keyboard in substitute of mouse.

Short key	Explanation	Remark
Alt □ Tab	Change the active window	
Alt □ Space	Display the active window	
Alt □ F4	Close the active window	Close the current window

4. Turn the power off when operation ends, because the device gets a shock from suddent electricity supply while operation is halted by an electricity failure or something.

5. When defect occurs, maintain the device refering to “Defect exclusion procedure” and “ Defect exclusion”.

6. If the device is suddenly halted(Down status) during operation, so rebooting is required, maintain the device with procedure of report. And rebooting is necessary, operate the device following “Procedure of the device operation”.

7. When booting problem can occur from cause of hardware or software, maintain the device refering to “Defect exclusion procedure” and “Defect exclusion”.

Features overview

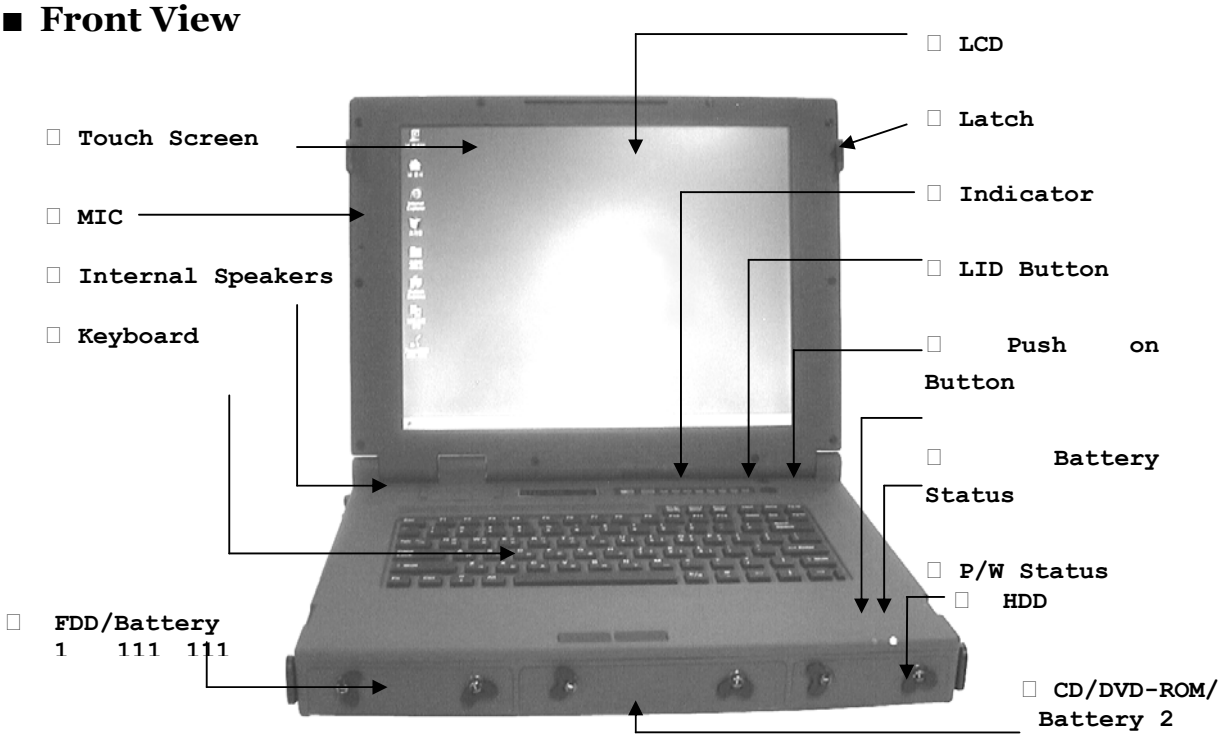
- A powerful Intel Pentium Celeron 400MHz~ Pentium III 700MHz processor.
- Memory architecture supporting up to 256MB of RAM.
- Built-in expansion slots that accept industry standard Type II and Type III PCMCIA-compatible cards.
- A removable hard disk drive featuring an ultra DMA interface.

- A removable CD/DVD-ROM drive, and 3.5inch floppy disk drive.
- A removable and rechargeable Lithium Ion battery pack.
- I/O(input/output) support for IrDA serial infrared wireless communication, a serial device , a parallel device, two Universal Serial Bus(USB) device, an external keyboard or mouse, and an external monitor.
- A sensitive Touch screen that is ergonomically placed for easy left- or right-hand use.
- Advanced power management capabilities that conserve battery power.
- An integrated audio system compatible with ESS AUDIO that includes built-in stereo speakers, an internal microphone.
- An integrated 56K modem, and an integrated LAN for network-ready use.
- Intelligent management features supporting the system's power management mode built into the BIOS setup program.
- Windows XP and other pre-installed software that enables you to begin working with a minimum of setup and preparation.

Identifying Components

The figures in this section identify the external components and accessories of your UC-26KS rugged notebook PC.

■ Front View

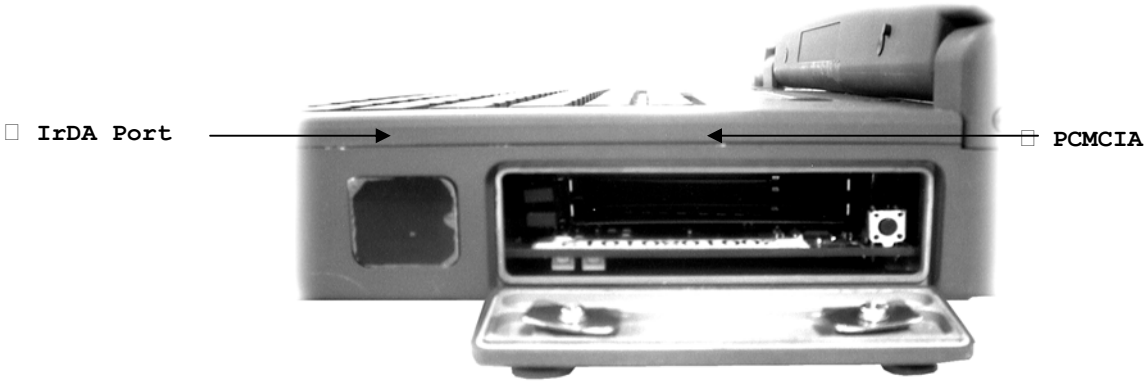


< Figure 1 UC-26KS Rugged Notebook Front Side View>

#	Item	Explanation
□	**LCD**	The TFT LCD screen supports resolutions up to 1024 × 768 × 16million colors,1280 × 1024 × 64K in virtual mode, or 1280 × 1024 × 64K on an external monitor.
□	**Latch**	The left, right latch releases the display panel from its locked position.
□	**Indicator**	The INDICATOR display icons that show the status of the Battery 1, Battery 2,hard disk drive (HDD),the floppy disk drive(FDD),CD-ROM, Num lock, Caps lock, Scroll lock, AC power, System suspend, and system power on.
□	**LID Button**	The LID button brings your computer to from full operation to the suspend mode.

#	Item	Explanation
□	**Push on Button**	The power button turns the computer on when pressed. To turn the computer forced off, press this button again and hold for four seconds.
□	**Battery Status**	The battery status light indicates the charging status of the battery. Charging mode: Red Fully charged mode: Off
□	**Power Status**	The power status light indicates that the rugged notebook is on DC-in mode: Green Battery mode: Red Suspend mode: Red blinking
□	**Hard Disk Drive**	The hard disk drive can be removed or installed by pulling or pushing tap of the drive case.
□	**CD/DVD-ROM / Battery 2**	The CD/DVD-ROM drive case has two latches. To install CD/DVD-ROM drive, you must pull out each latch firstly and uninstall CD/DVD-ROM drive, you must push in each latch firstly. The CD/DVD-ROM drive exchanges with lithium-Ion battery each other.
□	**FDD / Battery 1**	The FDD case has two latches. To install FDD, you must pull out each latch firstly and uninstall FDD, you must push in each latch firstly. The FDD exchanges with lithium-Ion battery each other.
□	**Keyboard**	The keyboard supports 86keys, including LCD brightness control.
□	**Internal Speakers**	The speakers are connected internally to the rugged notebook's integrated audio System.
□	**MIC**	The microphone records sound and music.
□	**Touch Screen**	The touch screen uses a PS/2 interface. The buttons on the keyboard chassis's correspond to the right and left button of mouse.

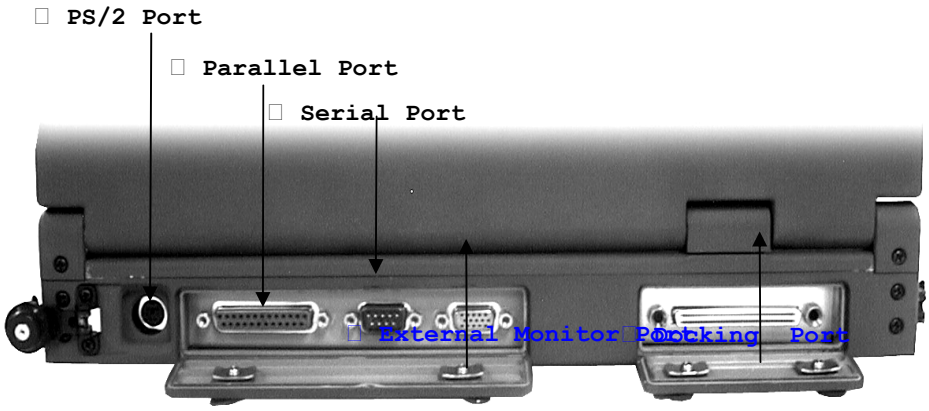
■ Right View



#	Item	Explanation

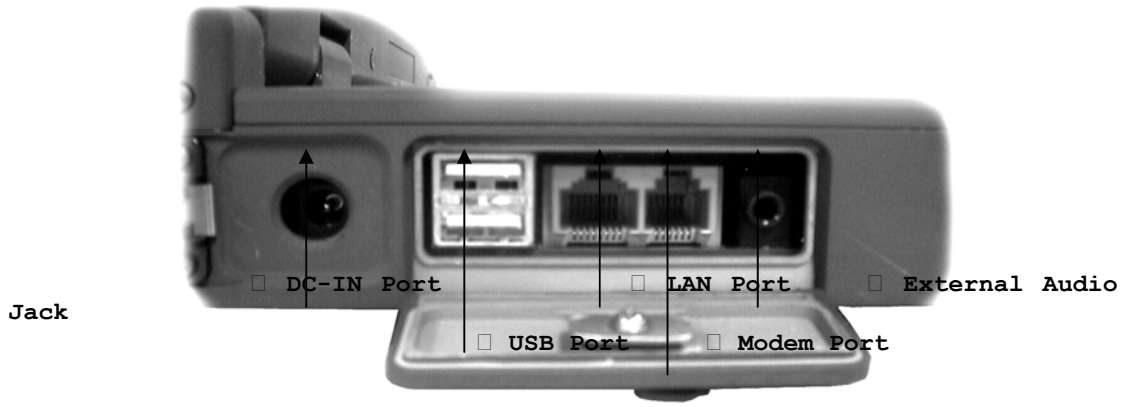
	IrDA Port	The IrDA port allows serial, wireless communication between the rugged notebook and other devices, such as a printer or another computer.
	PCMCIA Slots	The two PCMCIA slots provide expansion options, such as a Token Ring LAN adapter.

■ Rear View



#	Item	Explanation
	PS/2 Port	You can connect an external keyboard or a PS/2 pointing device to this port. PS/2 mouse & PS/2 keyboard can be shared with one PS/2 port by utilizing Y style gender cable.
	Parallel Port	A printer connected to this port.
	Serial Port	Use this port to connect an RS-232 serial device (for example, a mouse or a graphic Tablet) to your rugged notebook.
	External Monitor Port	An external monitor can be connected to this port.
	Docking Port	An advanced port replication can be connected to this port.

■ Left View



#	Item	Explanation
	DC-IN Port	The AC adapter power cord is connected to this port.
	USB Port	You can connect devices conforming to USB specifications to this port.
	LAN Port	A 10/100 Base T Ethernet LAN cable can be connected to this port.
	Modem Port	A phone line can be connected to the UC-26KS rugged notebook's internal Modem.
	External Audio Jack	The port allows to using external speakers.

Notebook Status Indicators

Your UC-26KS Rugged notebook uses the LCD status window, the battery indicators, and the power LED indicator to visually communicate your notebook status.

LCD Status Window

The LCD status window is located just below the notebook's display panel.

<Figure 5 LCD Status Window>

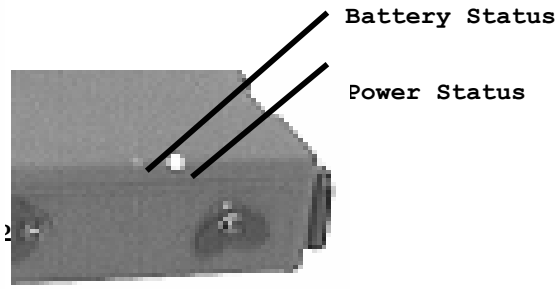
Each Indicator provides the following information :

Indicator	Explanation
BATTERY1 Status	When this icon is illuminated, a battery1 pack is connected.
BATTERY2 Status	When this icon is illuminated, a battery2 pack is connected.
HDD Status	When this icon is illuminated, the hard disk drive is in use.
FDD Status	When this icon is illuminated, the floppy disk drive is in use.
CD-ROM Drive Status	When this icon is illuminated, the CD-ROM is in use.
Num Lock Status	When this icon is illuminated, Num Lock is activated.
Caps Lock Status	When this icon is illuminated, Cap Lock is activated. All alpha characters typed will be in uppercase.
Scr Lock Status	When this icon is illuminated, Scroll Lock is activated.
EXT.PWR Status	When this icon is illuminated, the UC-26KS Rugged notebook is connected to the AC power source.
STATUS Status	When a v appears in this position, the system is in Suspend mode and when a lighting bolt appears in position, the system is on at full power.

□ Do not remove the hard drive, floppy disk or CD when the disk drives are in use.

Battery Charge LED Indicator

Your UC-26KS Rugged notebook's battery charge LED indicator is located on the tight front corner of the rugged notebook.



<Figure 6 Battery Charge Indicator>

The three state of the battery charge LED indicator are summarized in the following table:

Battery Charge LED Indicators		
Battery Status	**Power Source**	**Explanation**
OFF	AC	Battery fully charged
Red	AC	Battery charging
OFF	Battery	Battery normal

Power LED Indicator

The power LED Indicator is located on the right front corner of the rugged notebook.
The power LED indicator lights when the rugged notebook is turned on and operating in full power mode.
The power LED indicator flashes when the notebook is in suspend mode.

Indicator Color	Explanation
Green	Normal AC operation
Red	Using battery power
Red	Battery power low

Battery Status

When the battery in your rugged notebook needs recharging the battery power LED turns red and the rugged notebook emits two beeps every 3 seconds.

Multimedia sound system

Your UC-26KS rugged notebook has a built-in multimedia sound with an FM Sound generator that produces music and human voice sound in 16-bit stereo.
The sound system features internal stereo speakers and an internal condenser Microphone.

Rugged Notebook UC-26KS

Getting Started

CHAPTER

2

2. Getting Started

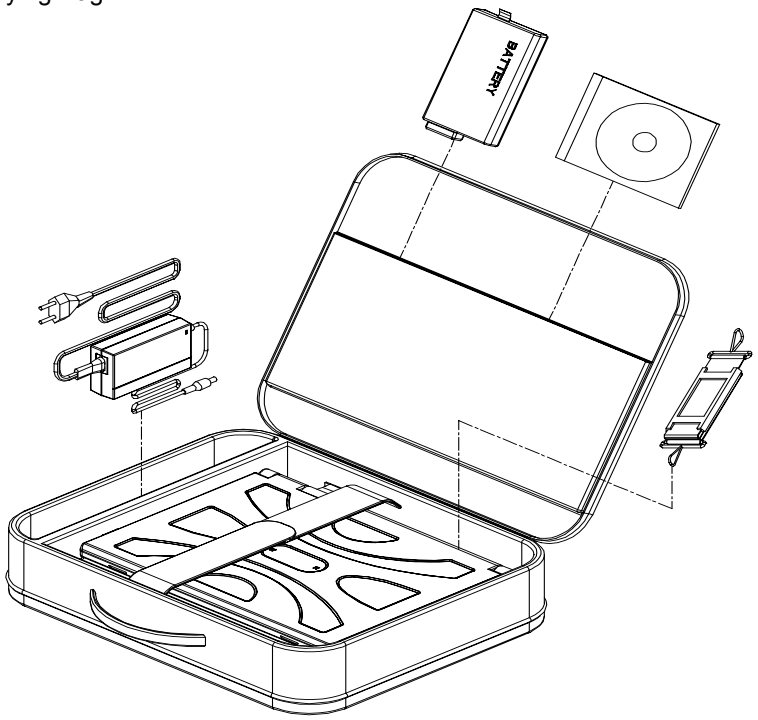
This chapter describes how to power-up your UC-26KS rugged notebook. If you want to install optional devices, such as a mouse or a printer, refer to Chapter 4, “Connecting and Installing Optional Devices”. You can power your notebooks with either one or two rechargeable battery packs or the AC adapter.

You will find detailed information on using both power sources in Chapter 5. If you are an advanced user and familiar with the BIOS Setup program, consult Appendix B, “Using the BIOS Setup Program”.

Unpacking

The following components come with your rugged notebook. If anything is missing or damaged please notify the manufacturer immediately.

1. Notebook unit
2. Removable FDD, CD-ROM, HDD, Battery
3. AC Adapter & AC power cord
4. Driver CD
5. User Manual
6. Touch pen
7. P/S 2 Genders
8. Carrying belt & Carrying Bag



Connecting to AC Power

The first time you start your UC-26KS rugged notebook you must connect it to an AC power Source. The batteries shipped with your notebook must be charged before you can use them.

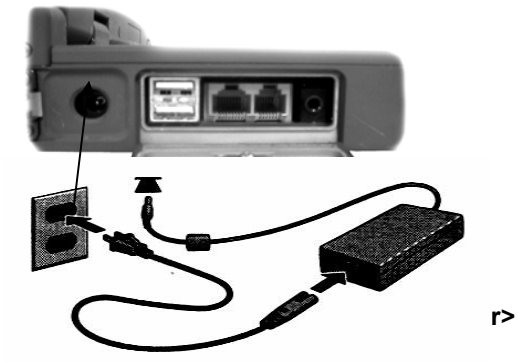
Instructions for correct charging procedures are contained in Chapter5, “The Power System” and in your quick start guide. Follow these steps to connect your notebook to AC Power.

 Caution Your UC-26KS rugged notebook comes with its own special AC adapter. . Do not use a different AC adapter to power the computer. Using any other

adapter can seriously damage your notebook.
. Do not use the notebook's AC adapter to power other electrical devices.

1. Connect the AC adapter to the DC In port. Make sure the connector seats firmly into the slot.

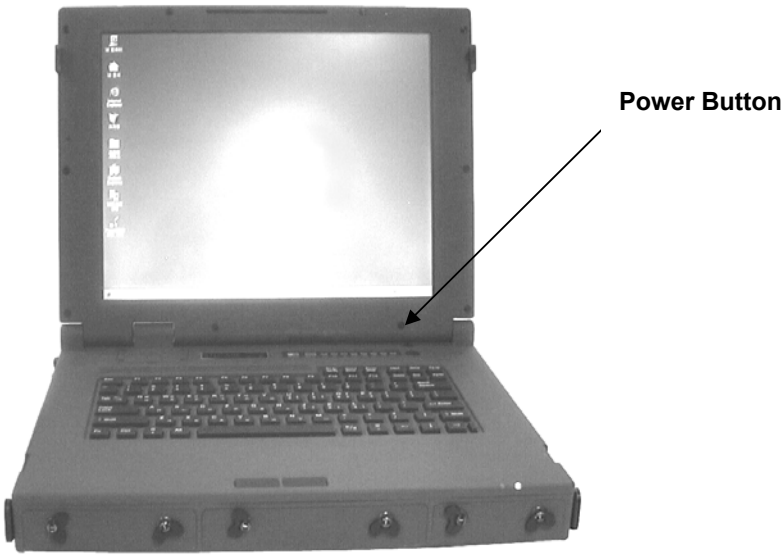
2. Plug one end of the power cable into the AC adapter and the other end into an electrical outlet.



Turning Your Notebook On

1. Connect the rugged notebook to an AC power source and open the display panel.

2. Press and hold down the power button for at least one second.
The sign-on message should appear on the screen.
(You may want to adjust the brightness levels, you can control the brightness by pushing brightness-up/down button on keyboard)



<Figure 8 Power Button>

3. If you need to run the BIOS setup program to modify your system's configuration, refer to Appendix B, Using the BIOS setup program.

Turning Your Notebook Off

 Caution . Before you turn off your notebook, close all programs and use the windows shut down command (or exit to the DOS prompt)
. Wait at least 5 seconds after you power down the notebook before you turn it back on.

1. To turn the notebook off, click on the windows start button(at the lower left corner of the screen) and point to shut down.
   A dialog box displays this option.
   - Shut down the computer? (default)
   - Restart the computer?
   - Restart the computer in MS-dos mode?
   - Closed down all program and log on as a different user?
2. Click yes to shut down the notebook.
3. Wait until the system powers down, and then lower the display panel.
   Gently press the top of the notebook to fasten the open/close latch.

Resetting Your System

You may occasionally encounter a hardware or software problem that locks up your notebook. To reset the system when it is in this state:

1. Press **Ctrl+Alt+Del**
2. The close program dialog box display three options:
   You can close any or all of the currently active programs
   (Highlight the programs you want to close and click on end task.
   You will lose any unsaved information in the programs you choose to close.)
   You can shut down the entire system(click on shut down to initiate the normal shut down procedure)
   Or you can press **Ctrl+Alt+Del** to reboot the system.(this shuts down all currently active programs and restarts your notebook. You will lose any unsaved information in any open programs.)

For more information on resetting your system, see your Windows XP documentation.