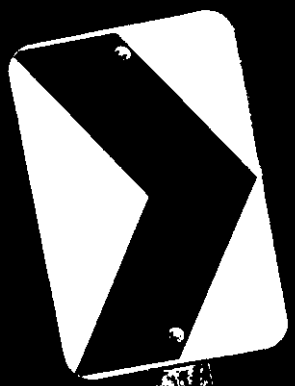
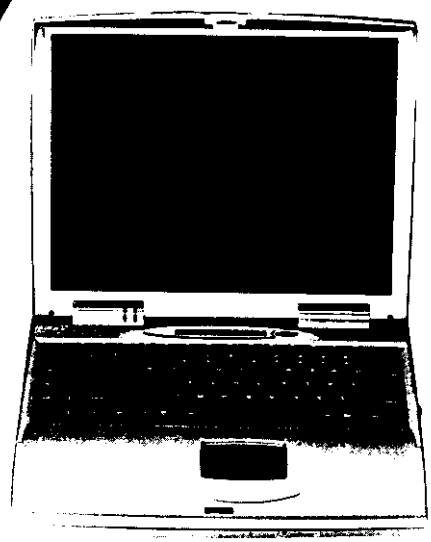
Users Manual

High Performance Notebook Computer





WARNING

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 instruction, 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 in connected.**
- **Consult the dealer or an experienced radio / TV technician for technician for help.**

Notice:

(1) A Unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord by used.

(2) Use only shielded cables to connect I/O devices to this equipment.

(3) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

MutiMedia Notebook Computer

MODEL : NX6000, NX6010

SMART D & M TECHNOLOGY CO., LTD.

Notice

Updating or revising this manual or making any changes to the information here in will be initiated when the manufacturer deems it necessary. The manufacturer reserves the right of taking the above-mentioned actions in advance or afterwards.

Trademark Acknowledgement

The following table constitutes acknowledgement of both the registered and unregistered trades marks mentioned in this manual.

Microsoft, MS-DOS, Windows, and Windows 95 are registered trademarks of Microsoft Corporation.

Intel and Pentium are registered trade marks of Intel Corporation.

IBM, PC/AT, VGA, OS/2, and PS/2 are registered trademarks of International Business Machines.

Other brands and products' name used in this manual are the properties of their respective owners and acknowledged.

Important Safety Instructions

Please read and follow these important instructions, before using the notebook computer.

1. Follow all warnings and instructions marked on this product.
2. Always place this product in a stable position. Dropping it may cause damage to the system.
3. Unplug this product from the wall outlet before cleaning it or connecting peripheral devices.
4. If the power cord becomes damaged, do not attempt to replace it with any cord other than those supplied by the dealer. If an extension cord is used, make sure that it is not attached with too many electrical or electronic gadgets.
5. Never allow any objects to enter the slots of the notebook computer, if they are not specifically designed to do so. Always keep your notebook in a dry place, and avoid spilling any kind of liquid on it.
6. Always remember to wait at least 10 seconds to restart the notebook after turning it off. Turning it on and off rapidly may cause damage to the circuitry.
7. Do not block or cover the system's ventilation openings. Also, never place this product near or over a radiator or heat register, or in a built-in installation unless adequate ventilation is provided.
8. Operate this product in accordance with its rated power specifications. If you are unsure of your local power specifications, consult your dealer or local power company.
9. Do not allow anything to rest on the power cord. Do not locate this product where persons will likely walk on the cord.
10. If your notebook computer does not seem to be functioning properly, do not try to dismantle or make any adjustments to it. Such action will cause your warranty to be void. Please refer all servicing and notebook repairs to the Manufacturer's or Dealer's qualified service personnel.
11. Do not leave a beverage on top of or next to your system. Spilled liquid can damage the circuitry of your components.
12. Unplug this product from the wall outlet, do not operate it, and immediately seek proper servicing if :
    - -- The power cord or plug is damaged or frayed.
    - -- Liquid or foreign matter has entered this product.
    - -- This product has been exposed to rain or water.
    - -- This product has been dropped or damaged.
    - -- This product exhibits a distinct change in performance, indicating a need for service.
13. Do not use any battery pack other than the one specifically designed for this system. Batteries may explode or leak if exposed to fire or improperly handled or guarded. Refer battery replacement to your dealer or qualified service personnel.

Limited Warranty

What is covered:
The manufacturer warrants that the notebook computer enclosed with this Limited Warranty Statement and purchased and used in the country where the purchase is made will conform to the manufacturer's materials for a period of one year from the date of original purchase.

What We Will Do to Correct Problems:
Should your notebook computer prove defective during this period, please bring the product securely packaged in its original shipping container (or an equivalent), along with proof of its original purchase date, to your dealer. Your dealer will at its option, repair or replace your product with a new or reconditioned one on an exchange basis, without charge for parts or labor.

What This Warranty Does Not Cover:
This Warranty covers only normal consumer use in the country where the purchase is made. The manufacturer is not responsible for any service:

1. The label or logo or the rating label or serial number be removed, or
2. The product fail to be properly maintained improper installation, neglect, improper shipping,
3. Damage caused by disasters such as fire, flood, and lightning, improper electrical current,
4. Service other than made by an Authorized Service.
5. Postage, insurance, or shipping costs incurred in presenting your notebook computer.

For warranty service is your responsibility. Please consult your dealer for more details on the warranty.

Table of contents

Introduction

About Your Notebook

This notebook computer incorporates high performance, full-featured multimedia capabilities, maximum versatility, state-of the-art technology, easy upgrade and expansion, energy efficiency in its compact package. It features:

•Support for a full range:
Intel P55C-MMX – 166Mhz/200Mhz/MMX233Mhz &
Intel Tillamook --233Mhz/266Mhz/300Mhz
AMDK6 Mobil--MMX 266Mhz/300/333Mhz,
with 512KB Pipe Line Burst Mode cache memory.
•Complete 32-bit PCI local bus architecture.
•Integrated 32-bit PCI local bus video with 4MB video SGRAM
•32-bit stereo sound system, with built-in microphone and two speakers.
•Full-feature SMM & SMI power management functions, APM and ACPI support.
•System memory configuration up to 256MB by industry standard SO-DIMM.
•Type III PCMCIA expansion slot or two Type II stacked-up slots.
•Infrared wireless communication
• 2.5" hard disk drive, PIO mode 4 & Ultra DMA33 IDE Transfer Supported.
•CD-ROM Drive and 3 Mode 3.5" floppy disk drive.
•DVD & LS-120 (Optional).
•V90 FAX/MODEM built in (Optional)

Unpacking

Carefully remove the notebook computer and its included accessories from the box as well as its packing material. This notebook computer has a modular design and some parts can be removed and replaced with different parts. Some vendors may ship certain parts as standard, while other vendors treat the same parts as optional. In its most configuration, your system should include the following contents:

- The Notebook Computer
- One battery pack
- AC power adapter
- AC power cord
- Carrying bag

If there are any discrepancies or problems, contact your dealer immediately. Please keep a copy of your sales receipt for warranty verification. Your receipt is all that is required for warranty service. Be sure to keep your box or packing materials, as they provide the best protection for your computer in case you need to ship it later. The following items are normally optional, but some vendors may include them in the basic package:

- Additional Battery
- Optional Mini-docking station

•

How to Use this Manual

This manual explains how to set up and care for your notebook computer.:

Part 1	To provide a short overviews and tutorial that will familiarize you with the different parts of this computer.
Part 2	To describe general operating procedures for your notebook computer. While the information in some sections is common to all personal computers, it is advised that even the experienced user read the sections of this chapter that describe operations particular to this notebook computer.
Part 3	To explain how to start your notebook computer for the first time with the use of BIOS setup for configuring your computer and setting up the power management of the system. Please refer to this chapter, whenever you add, remove or replace components, or want to use different settings.
Appendix	To explain how to install drivers for your notebook computer for the first time.

For specific and detailed information about the computer, please refer to the relevant appendix or otherwise consult to your dealers.

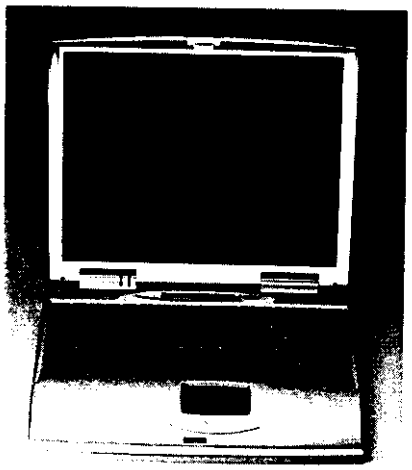
Operating Environment

This notebook computer can be conveniently operated wherever the temperature and humidity are comfortable enough for you to work. If you properly care for this computer, it will provide many years of reliable service. However, this computer system is a precision instrument and it therefore should not be:

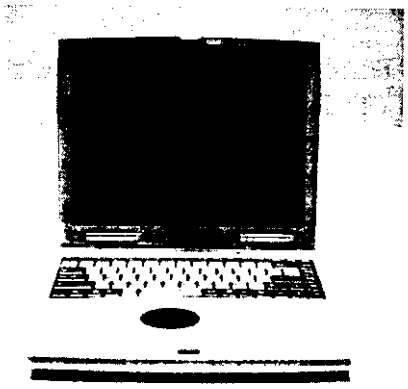
- Exposed to excessive heat or direct sunlight.
- Subjected to shock or vibration.
- Exposed to strong magnetic fields.
- Left in a place where foreign matter or moisture may enter the system.

Part 1
The Notebook Overview

Ver. Socket 7



Ver. Pentium II (MMC2)



Part 1 provides a short overview that will allow you familiar with the different parts of this notebook computer. Do not turn on the computer, printer, or any peripherals until the instructions tell you to do so. Otherwise, you may damage some parts of your computer.

You may find more information on these parts in Part 2, including how they are used and how they can be removed or installed.

Chapter1:
Front View of Your Notebook

1-1: The LCD Display panel:

The display of this computer is based on PCI local bus (Ver.Socket7) and AGP architecture for high video performance. The LCD display panel is integrated into the computer's top cover that locks shut for transportation. Open the top cover as follows:

(1) Place the notebook on a flat surface.
(2) Unlatch the one clasp located along the middle side of the top cover by sliding it inwards.
(3) Lift the top cover up to obtain a comfortable viewing angle.

1-2: Touch Pad:

Below the keyboard on the palm rest is a built-in touch pad pointing device.

1-3: Keyboard

This notebook computer utilizes a 19mm 88-key keyboard with Microsoft Windows key supported & hot key supported.

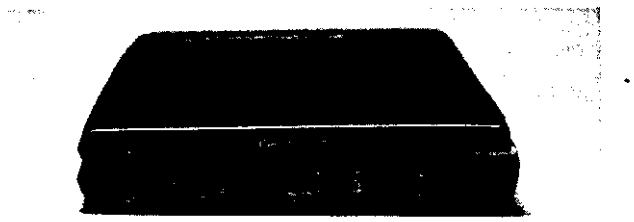
1-4: Power button and Mini LCD:

To press Power button to turn on the computer, or press it again to turn off the computer. The LED panel tells you the current system status and the activities of your computer.

1-5: Power Indicators

There are two indicators located on the right bottom side of LCD panel. The left side of indicator is show for power on and right side indicator is show for the status of battery charging.

Chapter 2:
Right View



On the right side of notebook computer, there are PCMCIA slots, one volume controller, three identical jacks for audio in, audio out, volume control and power jack, PS/2 port and IrDA port.

2-1: PCMCIA Expansion Slot:

The PCMCIA (or PC Card) expansion slots allow you to conveniently connect this notebook computer with various accessories. The upper slot is for 1 piece PC card of Type I/II. The lower slot is for 1 piece PC card of Type I/II or Type III. Two ejection buttons are located at the right side of each PCMCIA slot for easy removal of the inserted PC cards.

2-2: Audio Jacks:

For these three jacks, there will be identical signs marked aside to indicate its corresponding function for your convenience in use. Please read the following brief introductions, if you do not know there functions or you have any doubt with those signs to match your acknowledgement to notebook computer.

MIC-In:

-- This mono microphone jack is used to connect an external microphone.

-- Do not connect any mono plug.

External Speaker/Earphone Jack:

-- Connect external speakers or an earphone for playing back any recorded sound.

Line In Jack

-- This stereo jack is used to connect external audio sources..

Volume Control:

-- Adjust the volume of the internal or external speakers.\

2-3: Infrared Port:

Next to the Docking Port is the IR Port. The wireless communication capabilities are based on IrDA standards for cordless connection between the notebook computer and an IrDA-compliant device.

2-4: AC Adapter

The notebook computer can be powered on either by the battery or the AC dapter. When you connect the AC adapter to the computer and to an electrical outlet, the outlet supplies the power to the computer, and you may recharge the battery (inserted in the computer). The AC adapter can operate at voltage from 100 to 240 volts, you can use your notebook computer around the world as long as you have the appropriate adapter plug.

2-5:Power Connector:

This is where the AC power cord of the AC adapter is plugged into. From here the AC current passes to the computer from the wall outlet.

2-6: External Keyboard/PS2 Mouse Port:

Next to the USB port is for external keyboard/PS2 Mouse port. This port has the following functions for your convienience in use -- if you prefer to work with an external keyboard for keying in all lot of numeric data; -- if you prefer to use both original touch pad and external mouse at the same time or only use external mouse to instead of touch pad, you may connect a PS/2 compatible mouse to this port.

Chapter 3:
Rear View

On the rear side of the computer are several ports to connect external devices. Above most of the ports, you may see a symbol or wording which indicates its corresponding function. The following introduction will proceed from the left to the right on the rear view and includes the special introduction to AC adapter.

USB Port:
The USB connector provide expandability by allowing you to connect up to 127 daisy hained USB peripherals also support hot attach and detach of all USB peripherals.

Kensingten lock:
On above of the USB port, there is a tiny square hole which is the place for kensingten lock which it provides you the security from theft wherever you use the notebook computer.

TV Out:
Direct output to NTSC/PAL TV Monitors through S-Video format output. 3-Line Flicker Filter ensures the excellent TV Out quality.

Docking Port: (Optional)
Docking Port is to connect with external docking station which is shut by plastic over as a protection. All of the features of this Mini-Docking Station are available through the plug-in process.

GAME/MIDI Port (15 Pin):
You may connect any MIDI device such as a MIDI instrument or keyboard, or connect an external standard joystick to it.

Serial Port (COM1-9Pin):

The serial port can be connected to a wide variety of serial peripherals such as an external mouse, a pocket fax modem, a scanner, a serial printer, etc. It features a 9-pin connector.

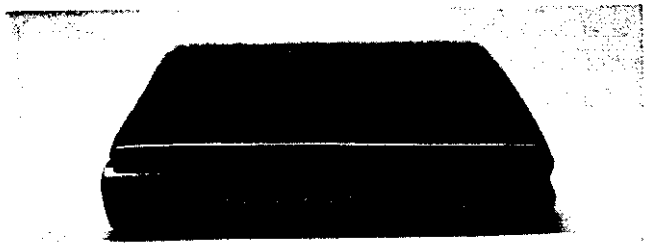
Parallel Port (with EPP/ECP):

This parallel port can be used to connect any parallel printer or parallel devices to this computer. It supports EPP (Enhanced Parallel Port) and ECP (Extended Capabilities Port) modes, which you may configure in the BIOS Setup.

External Monitor Port:

The first port from the right on the rear view of your notebook computer which is the 15 pin VGA connector for connecting the external monitor port.

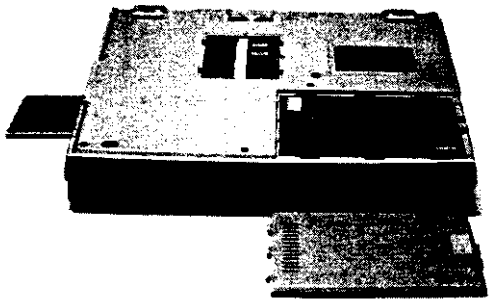
Chapter 4:
Left View



CD-ROM (DVD) & Floppy Disk (LS120) Driver:

At the left of the top notebook is the compartment for a changeable 5.25" IDE CD-ROM drive & FDD. Both the CD-ROM drive and FDD are built in the same modular chassises and both can not be separated from one another. The module uses the tray loading mechanism for ease of use. You may refer to Part 2 for more information on how to remove and install this module or the second battery module.

Chapter 5:
Bottom View



5-1: Battery Pack:

The additional battery pack is located at the left side of the bottom notebook. The battery pack can be replaced with compatible Duracell DR202S Li-Ion battery.

5-2: System Memory RAM Module

This notebook computer supports the industry standard 72pin 32bit EDO/ SDRAM SO-DIMM type of RAM module. To start the notebook computer, you only need one DIMM RAM module, to use both DIMM slots are located on the main board to upgrade higher system memory.

Chapter 6:
The Interior

Before start using the notebook computer, you shall also make yourself fully understand the interior features with their corresponding functions of the computer so as to help you work with the computer efficiently. Lift up the LCD monitor and the interior features in this section is including Power Switch, Suspend/Resume Hot Button, LED Panel, Touch Pad, and Keyboard with the introduction to its function keys.

6-1: Power Switch Hot Button

Power Switch:

Above the keyboard, there is one identical button. The right one is the Power Switch and you can press this button to turn on the computer, or press it again to turn off the computer. There is a green light shows when the power is on.

Note1: If machine can not power off due to abnormal shutdown or other unknown reasons, please press power button about 6-8 seconds to power off machine.

Note2: When you want to system shutdown, please press power button about 1second.

6-2: Power Indicators

There are two indicators located on the right bottom side of LCD panel. The left side of indicator is show for **power on** and right side indicator is show for **the status of battery charging**.

6-2.1: Power On Indictor

When press power button, the left side of indicator (yellow) will light on.

6-2.2: Charging Indicator

When the battery charging, the right side of indicator (orange) will light on.

6-3: LED-System Status Panel

Battery 

Indicates that battery power is being used. When this icon starts to flash, save your data immediately and switch to AC power or replace the battery pack.

AC Power 

Indicates when lit that the AC power adapter is being used.

Suspend Mode

The faucet icon indicates that the Notebook is in the suspend mode. When the Notebook enters the suspend mode, power consumption is dropped to the lowest state capable of maintaining the current programs and data in the system memory. The faucet icon indicates that the power management system is enabled.

Standby Mode

This icon indicates that the system is in the standby mode. When the specified period of inactivity as defined in the BIOS Setup program elapses, the Notebook will enter the standby state to reduce power consumption.

HDD Activity

Indicates when lit that the hard disk is being accessed.

CD-ROM Activity

Indicates when lit that the CD-ROM is being used.

FDD Activity

Indicates when lit that the system is accessing the floppy disk drive.

PCMCIA Slot 1 Activity

Indicates when lit that the PCMCIA socket slot 1 is being accessed.

PCMCIA Slot 2 Activity

Indicates when lit that the PCMCIA socket slot 2 is being accessed.

Caps Lock

Indicates that [Caps Lock] is activated.

Num Lock 

Indicates that [Num Lock] is activated.

Scroll Lock 

Indicates that [Scroll Lock] is activated.

6-4: Keyboard

This notebook computer utilizes a 19mm 88-key keyboard with Microsoft Windows key supported & hot key supported. The keyboard, easily detachable for various language versions, can be divided into the following functional groups:

- Alphanumeric Keys
- Function Keys
- Editing Keys
- Embedded Numeric Keypad
- Cursor Control Keys
- Special Function Keys of This Computer

6-4.1: Alphanumeric Keys:

The main part of the keyboard is the alphanumeric keys which are used for entering most of your data. They consist of the alphabetic keys (A-Z), the numeric keys (0-9) and other keys with special printable characters. The layout is similar as traditional typewriters. Some keys have special functions or are not found on standard typewriters. Functional descriptions of these special keys are given below:

6-4.2:Function Keys:

The function keys labeled F1 through F12 are programmable keys used to perform special functions that differ from one application program to another. They are located at the top row of the keyboard. Refer to your software manual for details on how they are used.

Function Hot Keys of this notebook computer –

Item	*Key*	*Function Description*
1	Fn-F9	Display Switch for LCD/CRT
2	Fn-F5	LCD back light Decrease adjustment
3	Fn-F6	LCD back light Increase adjustment
4	Fn-Ctrl	Right Control Key
5	Fn-Left Win	Right 95 Window key
6	Fn-F8	Screen Expansion
7	Fn-F2	Suspend Mode

◎ ***Suspend/Resume Function Hot Key:***

To Press **Fn-F2** is for freezing temporarily the system's activity and therefore saving the power/energy when not in use. Press **Fn-F2** once to immediately initiate the system suspend mode, and press any keys to resume the system operation.

6-4.3:Embedded Numeric Keypad:

The embedded numeric keypad is indicated by the smaller, blue-printed numbers and symbols found in the middle of the keyboard. To access these keys, press the Num Lock key. When the embedded numeric keypad mode is activated, the Num Lock icon appears on the LED panel. To return to the standard alphanumeric keyboard mode, press the Num Lock key again to turn off the Num Lock status.

6-4: Touch Pad

Below the keyboard on the palm rest is a built-in touch pad pointing device. It features a sensitive touch pad for precise control of the cursor with just a fingertip.

NOTE 1: Consult your dealer first, before you attempt to remove the keyboard yourself.

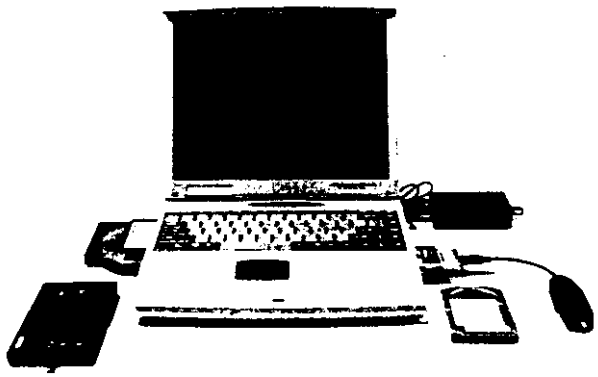
NOTE 2: Do not try to replace the components yourself. It is only done by your dealer. Any damage caused by attempting to change them yourself rest fully on your own responsibility.

Part 2 :
Using the Notebook Computer

This chapter describes general operating procedures for your notebook computer. While the information in some sections is common to all personal computers, it is advised that even the experienced user read the sections of this chapter that describe operations particular to this notebook computer.

NOTE: Turn off the computer and disconnect all power supply (both AC adapter and battery) before you work on any hardware setting.

Chapter 7
Accessories



7-1: Battery

This notebook computer is equipped with one internal rechargeable battery pack. It can work with only one battery pack installed. The battery is located at the left compartment of the notebook bottom side. However, the battery pack is for compatible Duracell DR202S Li-Ion battery pack. This sequential order is set only for identifying their location.

7-1.1 : Installing / Removing the Primary Battery:

To install the primary battery, follow these steps:

(1) Make sure the computer power is off.

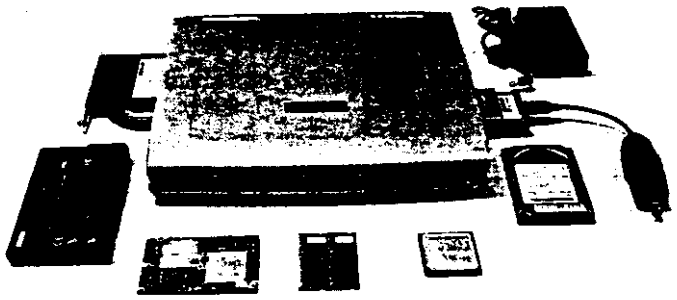
(2) Slip the battery to the compartment and insert it till it reaches the connector with a cover and make sure it locks properly.

To remove the primary battery, follow these steps:

(1) Turn off the computer power.

(2) Slightly lift up the front edge of the computer with one hand. Slide the latch release button to the right (don't let it go) and pull the battery module out with your other hand. The

Chapter 8:
Main Compartments of the Notebook



The main three compartments of this computer contains 1.CD-ROM & FDD Module, 2., HDD Module, 3. LCD Module. There are three sections in this chapter to explain the basic acknowledgement on three major parts of the computer and the detailed information of installing & removing operations of those three parts. Please refer to the above pictures as part of instructions.

8-1: CD-ROM & FDD Module (DVD ROM & LS-120)

The CD-ROM & FDD are built into one module. The computer comes with a 3 Mode 1.44MB 3.5" FDD. It reserves for LS-120 FDD specifications for further upgrade. This computer comes with 24X CD-ROM which also can be upgrade to more than 24X. It is also reserved for the function of DVD ROM & LS-120 specification for optinal.

8-2: Hard Disk Drive (HDD)

This notebook support 2.5" 12.7mm HDD interface. It supports PIO Mode 4 & Bus Master IDE Programming Interface for ATA Win.95 compliant controller and support PCI Bus Mastering. There is a reserved function of "Ultra DMA/33" for further development of functional technology. If you want to install HDD, please ask your dealer to install the HDD for you.

8-3: LCD Display Panel

The LCD display panel of this notebook computer is XGA (1024x768) resolution.

The TFT LCD panel displays up to 16.7 M colors at resolution 1024x 768 pixels, and the It is easy for your dealer to replace the new LCD panel by your choice to your machine. However, under any circumstance that you change it by yourself, then, the result of any kind will be your own responsibility and the warranty will not cover for any damage on the screen in such case.

8-3.1: Adjusting Screen Brightness:

The TFT LCD display brightness can be adjusted by the function keys on the keyboard. Due to contrast control is auto determined by TFT LCD, therefore there is no contrast function key for TFT LCD. The contrast hot key is available only on Dual Scan STN color LCD display, as the contrast for the TFT color LCD is auto-sensing and therefore eliminates the need of any contrast control button. A Hot Key is available for this function – ***"Fn-F5" (brightness decrease) and "Fn-F6" (brightness increase).*** The brightness control changes the intensity of the back light of screen. To increase the brightness, press this function key "Fn-F6". If you press function key "Fn-F5", the screen will change from increased brightness to decreased brightness. When you are running the computer on the battery power, do not make the screen brighter than necessary to read the text clearly. This will help conserve the battery life.

8-4: System Memory Module

This notebook computer supports the industry standard 144pin 64bit EDO/ SDRAM SO-DIMM type of RAM module. To start the notebook computer, you only need one DIMM RAM module, to use both DIMM slots are located on the main board to upgrade higher system memory. Please ask your dealer to upgrade the system memory for you.

Chapter 9
External Devices

9-1: External Monitor

The notebook computer supports CRT monitor display up to true colors at 1280x 1024 resolutions. The video display memory is 4MB SGRAM. Refer to Appendix for details on video modes supported.

9-1.1: Connecting an External Monitor:

If you plan to use an external monitor with your notebook computer, follow the instructions below to connect it to the computer.

(1) Turn off the computer power.
(2) Locate the 15-pin external monitor connector at the back side of the computer. A monitor symbol is printed above this port for easy identification. Lower the cover and you can see the port.
(3) Connect the monitor signal cable to this external monitor port.
(4) Plug the power cable of the monitor to an electrical outlet.
(5) Turn on the monitor and any other peripheral devices first, and then turn on the compute.

9-2: Peripherals

You may connect with this notebook computer a wide variety of serial and parallel peripherals available in the market. Read this section and the manual accompanying your peripheral devices, before you connect them.

9-2.1: Serial Devices:

This notebook computer can support and serial device that has an RS-232 compatible interface. Serial mice, printers, digitizers, scanners and fax/modems are all examples of serial devices that can be connected to the serial port. The serial port is located at the back side of the computer, with the wording COM1 printed above the port.

9-2.2: Parallel Devices:

This notebook computer can support parallel devices through its parallel port, such as a printer. A printer or any parallel device will have a parallel interface. Read the manual of your parallel device for more information on adjusting the device itself and/or adjustments with your software.

Connecting Peripheral Devices:

To connect any peripheral device, follow these steps:

(1) Place the device near the computer.
(2) Before connecting the device, make sure that the computer and the device are turned off.
(3) If the device is to be connected to the serial port, you will need to connect the female connector at the end of the cable to the serial port. If it is a device using the parallel port (e.g. a printer), you then require the 25-pin male connector of the printer cable to connect to this port.

(4) Connect the other end of the cable to the peripheral device (if it is not already permanently attached).
(5) Plug the power cable of the device into an electrical outlet.
(6) After attaching all the peripherals you will be using, you can then connect the computer's power cable to the computer.
(7) Turn on the peripherals first, and then turn on the computer.

9-3: Infrared Wireless Communications

This notebook computer is capable of wireless communications by using infrared as a transmission medium. This computer adopts the Serial Infrared (FIR/SIR) technology as Hewlett Packard as the interface for simple, fast and convenient data exchange from the notebook computer to another, or to an IrDA-compatible device, e.g. a printer. To utilize this feature, you need to enable COM2 port as "IrDA" in CMOS setup. For further details, please refer to Peripheral Setup in BIOS setup program. While using this function, there shall be no object should be blocked in each other's line of sight between the notebook computer and the infrared-equipped device.

9-4: PS/2 Mouse & External Keyboard/Keypad:

This computer supports a PS/2 mouse or an external keyboard/keypad which you may connect to the PS/2 port located at the back of the computer A two-button mouse/keyboard symbol is printed above this port for easy identification. While the computer also supports a serial mouse or an external keyboard, it is advisable to leave this serial port to other devices. As with other peripheral devices, you must turn off the computer power first, then attach the PS/2 mouse or the external keyboard before turning on the power of the computer.

9-5: Install Other Major Devices

9-5.1 : PCMCIA Card (PC Card):

To insert any PC card, type I/II or III, you may simply slide the card into the correct slot. The PCMCIA slot accepts one PC card either type I/II or III in its bottom slot, but only one PC card type I/II in its top slot. When removing the PC cards, press the eject button on the right of each slot. In order to be able to work with PC cards, you have to install PCMCIA driver (update98.bat) from the accompanying Install CD. For more information on the installation procedures, please refer to the PCMCIA Software Manual that comes with this computer.

9-5.2: Mini-Docking Station:

A 200-pin PCI connector is provided for connection with the Mini-docking station. It is located at the back of the computer, between TV-out port and the Ir-DA port.

9-6: Upgrading Components (i.e V.90 FAX/MODEM, DVD or LS-120 for optional)

Due to all of accessories are build in machine, you may ask your dealer to change these internal components before you buy it. Do not change on your own under any circumstances, the result of any kind will be fully your responsibility and the warranty will not cover the loss for any damage in such case.

Part 3:
Running the BIOS Setup Program

This part explains how to start your notebook computer for the first time to use the BIOS Setup for configuring your notebook and setting up the power management of your system. Please refer to this chapter, whenever you add, remove or replace components, or want to use different settings.

Chapter 10
Introduction of Bios Setup Program

10-1: BIOS Setup Utilities

When you turn on your notebook computer for the first time, run the BIOS SETUP program to define how your computer is set up. This is a simple procedure that you must do at least once. You may need to do it again later if you wish to change the setting. For the users whom is unfamiliar with the BIOS program, it is advisable to setup the program by using 'LOAD SETUP DEFAULTS" & then using "SAVE & EXIT SETUP". The system will be automatically setup its defaults by itself. This notebook features an Award Flash BIOS (Basic Input and Output System) Setup Program. The BIOS program allows you to modify system configurations and custom tailor your system to meet your unique working needs.

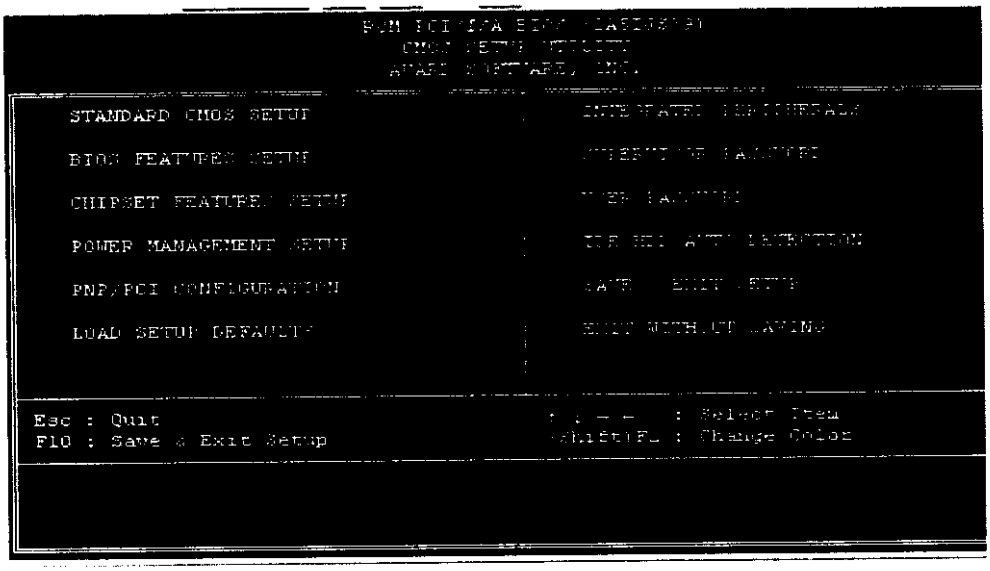
10-2: Get into BIOS SETUP MENU

The BIOS SETUP PROGRAM has a pop-up menu which you can easily access to configure the operating parameters of the BIOS options. When you turn on the computer, a screen message appears to give you an opportunity to call up the BIOS Setup Utilities. It displays during the POST (Power On Self Test). This message is: Hit DEL if you want to run Setup (If you do not have a chance to respond, reset the system by simultaneously typing the <CTRL>, <ALT>, and <Del> keys. You can also access this program by turning the system off and then on.) The BIOS uses the following keyboard combinations to navigate the Setup program:

Keys	*Function*
Esc	Exits the current menu or list.
F10	Save and Exit the BIOS Setup Program.
Enter	Cause the submenu for selected option to be displayed.
↑	Move to previous option.
↓	Move to next option.
→	Move to the adjacent option on the right.
←	Move to the adjacent option on the left.
PgUp	Increases the value.
PgDn	Decreases the value.
F1	Causes a On-line help window to appear.
Shift + F2	Changes the color of the background.

10-3: What's on the Bios Menu?

Press the <Delete> key while you reboot the computer, the main BIOS SETUP program menu will appear, displaying the following choices:



The function keys are used in the SETUP Utilities to change fields or edit values, which those function keys will also shown on the screen for your conveniences in use.

Chapter 11
BIOS Setup Program

11-1: Standard COMS Setup

"Standard CMOS Setup" records some basic system hardware information such as time, date, floppy disk drive, hard disk drive, etc.. If the configuration record which gets stored in the CMOS memory of the computer is lost or corrupted, or if you have changed your system hardware configuration, you will need to recreate the record. The configuration record can be lost or corrupted if the on-board battery that maintains it weakens of fails. "Standard CMOS Setup" displays a screen with a list of entries. Follow the on-screen instructions to move around the screen, change fields and edit values.

"Standard CMOS Setup" records some basic system hardware information such as time, date, floppy disk drive, hard disk drive, etc. If the configuration record which gets stored in the CMOS memory of the computer is lost or corrupted, or if you have changed your system hardware configuration, you will need to recreate the record. "Standard CMOS Setup" displays a screen with a list of entries. Follow the some of important on-screen instructions to move around the screen, change fields and edit values.

11-1.1: Date & Time:

The first two lines on the screen are the date and time settings for the system clock. The maximum value for the day depends on the month and year.

11-1.2 :Daylight Saving:

According to your local time to have the function disabled or enabled for correct date & time setup.

11-1.3 : Hard Disks:

This section is mainly for the record of the types of HDD&CD-ROM you used in the computer. Setup "Auto" on the Primary Master & Secondary Master "type" column, after all the bios being setup and reboot the computer, then, the computer will automatically allocate the HDD TYPE for primary master and allocate CD-ROM TYPE for secondary master.

11-1.4 : LCD&CRT:

This option allows you to define which display the system will use after boot up. Available options are Auto (recommended), Both, LCD and CRT. The default value you may choose "Auto" for setup automatically.

11-2: BIOS FEATURES SETUP

"BIOS FEATURES SETUP" is a list of system configuration options. Some entries are defaults required by the computer design. Others will improve your system performance if enabled, or let you set up some system features according to your preference. The controls are the same as for the Standard CMOS Setup. It may be necessary for you to set these option settings as default values to avoid system conflicts. The following explains some of important options for each entry:

11-2.1 : Boot Sequence:

The default setting of "Boot Sequence" is "A: , C:". The other options are "C: , A:", "C, CDROM, A", "CDROM, C, A", "C only", and "LS/ZIP, C". The setting determines where the computer looks first for an operation system: the hard disk drive or the floppy disk drive.

11-3: CHIPSET FEATURES SETUP

This screen controls the settings for the board's chipset for advanced and technically competent users only. You can enable "Auto Configuration" for the first time of use this machine or for the optimal settings of the machine. The followed Configuration is optimal settings for this computer that are defined by the Auto Configuration feature, which configures the settings based on the CPU clock speed. **It is advisable that you should not change them unless you know what you are doing or consult your dealer for advice if there is a need to change the settings. Any inappropriate changed could adversely affect notebook performance. Wrong configuration of any item in the Chipset Setup will affect the overall performance of the system. Please ask your dealer for advice if any of the configuration is required.**

Note 1: Changing the settings without any supervising may result the failure to boot up the machine. Any result of such improper setup is your own responsibility and will leave the machine out of the warranty coverage.

11-4: Power Management Setup

The notebook has a number of automatic or adjustable power conservation features that you can use to maximize battery life. You can control some of these features through the Power Management options in the Setup program. The power management features are designed to conserve as much electricity as possible by putting these components into a low power consumption mode as often as possible. These low power modes are referred to as "Standby" mode and "Suspend" mode. It may be necessary for you to set these option settings as default values to avoid system conflicts. The following explains some of important options for each entry:

11-4.1: Power Management:

"Power Management" is the master control for the power saving modes, Display Turn off and HDD Power Down that all together form the hardware power conservation scheme. You may choose to enable or disable this feature in your system.

11-4.2: DOZE Mode:

If the system is idle for a period, this function will be throttling CPU clock after any trigger. CPU clock after any trigger, CPU clock returns to high. Enable this function leaves the computer follow the instruction setup by Doze Speed.

Note: To disable this function while doing the installation, running executive program or watching the VCD to avoid the repeat/stop the operation.

11-4.3: Standby Mode:

In this mode, the peripheral components are put in their lowest active states in addition to reducing the CPU speed. These include the hard disk, the LCD screen and the screen back light. The notebook enters standby mode when the system remains idle for a specified amount of time.

Press any key to resume system operation.

11-4.4: Suspend Mode:

On top of the keyboard beside the Power Button there is the Suspend/Resume button whose function is identical to system standby time-out. Press this button once to save the energy of your system. This provides the fastest way to reduce power consumption for your system. Pressing the Suspend/Resume button again (or any key on the keyboard or any mouse/trackball activity or resume alarm time-out) will "wake up" the system again. You may disable or enable the function of suspend here for free of your own choice.

11-4.5: Suspend Mode Option:

The options are "STR" (Suspend to RAM), "Auto" and "STD" (Suspend to Disk). The default setting is "STR".

11-4.6: The Note of Function Descriptions

The System status in Sleeping Mode

Mode	*Activity*
Doze	Stop CPU periodically
Standby	Stop CPU periodically CRT off, LCD off Hard Disk spin down
Suspend 5V	Stop CPU CRT off, LCD off Hard Disk spin down Audio amplifier off
Suspend 0V	All context of system is saved to hard disk system power off

11-5: PnP/PCI CONFIGURATION

Set this configuration as follow the default option to Auto to have the BIOS automatically configure all the boot and Plug and Play compatible devices. Selecting Auto will cause all other fields to disappear. When installing legacy devices, i.e., devices that are not Plug and Play compatible, it may be necessary for you to set this option to Manual and manually assign the IRQ and DMA addresses to avoid system conflicts.

11-6: LOAD SETUP DEFAULTS

Select this option to load the default settings for which the system will operate with the highest performance. If the configuration stored in CMOS RAM is lost or destroyed, the notebook optimal settings will automatically be loaded.

11-7: INTEGRATED PERIPHERALS

This screen controls the settings for the motherboard's peripheral devices. It may be necessary for you to set these option settings as default values to avoid system conflicts. The following explains some of important options for each entry:

11-7.1: OnBoard UART 2 Mode

This option allows you choose which Infrared standard will be used for transmission. The options are HPSIR/ Fast SIR/ Standard. The HPSIR settings correspond to SIR and the Fast Sir Setting corresponds to FIR. Select Standard will disable the IR module.

11-7.2: Parallel Port Mode:

This option allows you to choose your parallel port's operating mode. For increased parallel port performance, it is recommended to use the ECP+EPP setting. If you have a parallel interface peripheral device that uses one of the parallel port enhancements listed, set this line for the enhanced mode your peripheral supports. If the attached device does not support either one of these settings then Normal operation will be used. The options are: Normal, EPP, ECP, and ECP+ EPP.

11-8: User Password & Supervisor Password

The Supervisor Password is for system and Setup Utility access. The User Password is for the system only. This notebook computer ships with no passwords. To create a password, highlight the type you want and press the <Enter> key. At the prompt, type your password. The password is case sensitive, and can be up to 6 alphanumeric characters. Press <Enter> after you have finished typing in the password. At the next prompt, confirm the new password by re-typing it and pressing <Enter> again. When you are done, the screen automatically reverts to the main screen. Remember, when you use this feature, the "Password Check" line in Advanced CMOS SETUP will determine when entering the password will be required. To disable either password, press the <Enter> key instead of entering a new password when the "Enter Password" dialog box appears. A message confirms the password has been disabled.

11-9: IDE HDD AUTO DETECTATION

To use this option to force the BIOS to auto detect your hard drive type. The detected hard drive type will be listed in the Hard Disk table in the Standard CMOS Setup menu.

11-10: SAVE & EXIT SETUP

This option allows you save the new BIOS configurations and exit and the setup program.

11-11: EXIT WITHOUT SAVINGS

This option allows you to exit the BIOS setup program without saving the new BIOS configuration.

Appendix: Drivers Installation Guide

There are include software installation procedures as a guide to use the notebook computer, which they are as follow:

1. Video Driver for Win98 Installation Guide
2. Audio Driver for Win98 Installation Guide
3. PCMCIA Driver for Win98 Installation Guide.
4. How to Operate TV-OUT
5. Upgrading the Flash BIOS

Video Driver for Win 98 Installation Guide (Ver. Socket 7)

1. Move mouse cursor to **Desktop** and click right button. There is a menu pop up and choose the item of "**Properties**".
2. The **Display Properties** show up and choose the item of "**Settings**".
3. To click the item of **"Advanced"**.
4. To click the item of "**Change**" in "**Advanced Display Properties**"/ "**Adapter**".
5. Then Windows 95 will let you to choose display device, please click on button "**Have Disk...**".
6. To insert the display driver CD into CD-ROM driver and **key in "d:\VGA\win9X"** then click **OK.**
7. There is a table show the item of display driver. Please highlight it and click **OK**
8. The display adapter changed accordingly.
9. Restart computer then there is a additional tablet on display setting page for change display settings.
10. To click **"Setting".** You can adjust the **"Color Palette"** for your choices in 16 colors (fast, but only basic colors), 256 or High colors (a little slow, but better color,), or (slow, but photographic-quality color) and the **"Desktop Area"** for your resolution (640X480, 800X600 or 1024X768).

PS. High Color = 64 K colors
True Color = 16.7 M colors.

11. To click the item of **"Advanced Properties"** and press **"Monitor"** then click **" Change"**.
12. To choose **"Standard Monitor Types"** in **"Manufacturers"** and **"Laptop Display Panel 1024X768"** in **"Models"** then press **OK**.

Audio Driver for Win98 Install Guide

1. To move the mouse cursor to **"My Computer"** and click the right button. There is a menu will pop up and choose the item **"Properties"**.
2. Go into **"System Properties"** then choose the item of **"Device Manager".** To remove both of the items "PCI Communication Device" in **"Other Device"**.
3. Click the item "Refresh" then you will see a message "PCI Multimedia Audio Device" shown on screen.
4. When "Add New Hardware Device" on screen, please click the item "Browse".
5. Insert drivers' CD into driver D and key in "D:\ESS" then click "**Next>**" button.
6. In the moment, the system will get "d:\ESS\MAESTRO.INF"and also there is a message "ESS Device Manager" show on the screen then click "Finish".
7. After click "Finish", the steps of #6 will repeat. Please restart computer then Window 98 will update program group automatically.
8. Check the Task Bar you will find an audio device icon.

How to Update the PCMCIA Controller Under Win 98

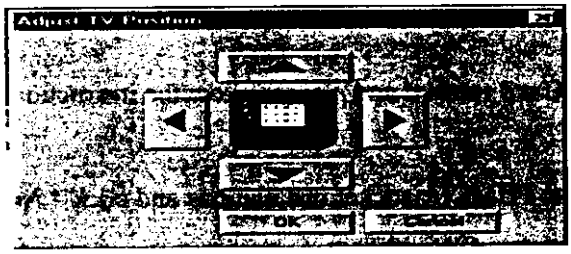
1. To replace PCMCIA files in Window 98 before you update PCMCIA controller for Computer. Please choose the file update98.bat in directory of Update from drivers' CD. (There is a file name is update98.bat that include in the CD of drivers.)

Note. Due to MS Window98's original PCMCIA drivers did not support TI 1225, there are some files for update original PCMCIA files in directories of "INF" and "System" of Win 98.

2. Go into "Control Panel" and open " System" then press "Device Manager" and click the item of "PCMCIA Socket". There is an item is "Generic Cardbus Controller" and remove it.
3. To click "Refresh". Wait for a moment, there will show two items "Texas Instrument 1225 PCMCIA Cardbus Controller" then reboot.
4. Go into **Device Manager**.of **System in Control Panel** and double-click
5. To double click the item of "**PCMCIA socket** and **Texas Instruments PCI-1225 CardBus Controller"** with "✗ ".
6. Click the item **Device Usage /Disable in this hardware profile** to remove the "✓" and press OK.
7. The Window 98 will execute the **PC-Card wizard** and please follow the instructions to click "**Next** >".
8. Just follow the instructions to finish the PCMCIA socket installations and click " **Next** >".
9. Click "**Finish**" then follow the instructions of Win'98.
10. To click "**Yes**" then PCMCIA socket will work properly after system re-booting.

How To Operate TV Out (Ver. Socket 7)

1. To ready a cable with S Video connector.
2. To go into the item " S3" / "Display" /"Control Panel "/ Setting of Window 98.
3. To choose DUAL Controller then select TV / LCD or TV only.
4. In the item "TV" of "Advanced Setting Properties", you can depend on your TV type to choose NTSC, PAL or Japanese PAL.
5. In "TV Out Signal", you also depend on your connector to select " Composite " or " S-Video ". (We recommend you choose S-Video connector because both of Voyage & Flora are use S-Video connector system.)
6. In " Properties ", please select the item of " CRT /TV ".
7. In task bar, there is an **icon of S3**. To click twice by mouse and you can adjust your TV position.



Upgrading the Flash BIOS

The Notebook utilizes an Award Flash ROM BIOS which makes upgrading the BIOS an easy matter. To upgrade the existing AIO Notebook BIOS and save the old BIOS, do the following:

1. Insert the Award Flash Utility diskette into the floppy drive.
2. At the DOS prompt, enter the following command and press [Enter]:

   A:\awdflash newbios.bin /Py /Sy

Where newbios.bin is the name of the binary file containing the new BIOS and oldbios.bin is the name of the file to contain the old BIOS.

To upgrade the BIOS only, do the following:

1. Insert the Award Flash Utility into the floppy drive.
2. At the DOS prompt, enter the following command and press Enter:

   A:\awdflash newbios.bin /Sn /Py

   Where newbios.bin is the name of the binary file containing the new BIOS.

Note1: *To view all of the FLASH Utility parameters and their usage type* awdflash /? *and press Enter.*

Note2: *Ensure that you download the correct BIOS. Upgrading with the wrong BIOS will cause system failure.*

Warning! ***Do not interrupt the upgrade program once it is started. Interrupting the program leaves the system without a BIOS and unusable. If the upgrade is interrupted, you must replace the BIOS using a new BIOS module.***

To download the current BIOS, please go into SMART-TEC Internet station:
http://www.smart-tec.com.tw/

Extended Modes in the Primary Display

VESA Mode	Resolution	Color Depth	Type	Organi-zation	Text Display	Character Size	Dot Clock (MHz)	Horizontal Refresh (kHz polarity)	Vertical Refresh (Hz polarity)
100	640x400	256	Graphics	Packed	80x25	8x16	25.175	31.5 -	70 +
101	640x480	256	Graphics	Packed	80x30	8x16	25.175 31.50 36.00	31.5 - 37.5 - 43.3 -	60 - 75 - 85 -
103	800x600	256	Graphics	Packed	100x37	8x16	40.00 49.5 56.25	37.8 + 46.9 + 53.7 +	60 + 75 + 85 +
105	1024x768	256	Graphics	Packed	128x48	8x16	65.00 78.75 94.5	48.3 - 60.0+ 68.7+	60 - 75 + 85 +
107	1280x1024	256	Graphics	Packed	160x64	8x16	108.00	64.981+	60 +
10D	320x200	32k	Graphics	Packed	40x25	8x8	25.175	31.5 -	70 +
10E	320x200	64k	Graphics	Packed	40x25	8x8	25.175	31.5 -	70 +
110	640x480	32k	Graphics	Packed	80x30	8x16	25.175 31.50 36.00	31.5 - 37.5 - 43.3 -	60 - 75 - 85 -
111	640x480	64k	Graphics	Packed	80x30	8x16	25.175 31.50 36.00	31.5 - 37.5 - 43.3 -	60 - 75 - 85 -
112	640x480	16M	Graphics	Packed	80x30	8x16	25.175 31.50 36.00	31.5 - 37.5 - 43.3 -	60 - 75 - 85 -
113	800x600	32k	Graphics	Packed	100x37	8x16	40.00 49.5 56.25	37.8 + 46.9 + 53.7 +	60 + 75 + 85 +
114	800x600	64k	Graphics	Packed	100x37	8x16	40.00 49.5 56.25	37.8 + 46.9 + 53.7 +	60 + 75 + 85 +
115	800x600	16M	Graphics	Packed	100x37	8x16	40.00 49.5 56.25	37.8 + 46.9 + 53.7 +	60 + 75 + 85 +
116	1024x768	32k	Graphics	Packed	128x48	8x16	65.00 78.75 94.5	48.3 - 60.0+ 68.7+	60 - 75 + 85 +
117	1024x768	64k	Graphics	Packed	128x48	8x16	65.00 78.75 94.5	48.3 - 60.0+ 68.7+	60 - 75 + 85 +
118	1024x768	16M	Graphics	Packed	128x48	8x16	65.00 78.75 94.5	48.3 - 60.0+ 68.7+	60 - 75 + 85 +

Notes:

1. The 32k color modes are RGB 5:5:5 packed pixel modes compatible with the industry standard.
2. The 64k color modes are RGB 5:6:5 packed pixel modes compatible with the industry standard.
3. The 16M color modes are RGB 8:8:8 packed pixel modes compatible with the industry standard.