



Futura durus

Futura Durus BIOS settings

Index

Introduction	3
System Overview	3
Conventions	6
BIOS Setup Program	6
Main Menu	7
Advanced Menu	8
Boot Menu	10
Security Menu	11
For Information Only	12
Exit Menu	14

Introduction

This document outlines the proposed BIOS settings for the new Viglen Futura Durus Notebook (S15ST2). The screen shots are for reference purposes, if there is any variance or recommendations these have been highlighted in blue and may have supporting notes if required.

System Overview

Features		Specifications
CPU	Type & Speed	Intel Core 2 DUO, FSB 800/667MHz (Santa Rosa Platform) Intel Core 2 Solo Celeron® M (Santa Rosa Platform)
	Install Method	µPGA socket P processor
	Power Consumption	35W
	Level 2 Cache	4MB on-die (Core 2 DUO) 2MB on-die (Core 2 Solo Celeron® M)
Major Chipsets	Chipsets	Core Logic: North Bridge: Intel GM965 South Bridge: Intel ICH8-M VGA: Intel® 965GM Integrated Graphics USB 2.0: Intel ICH8-M built-in Audio: ALC262 Rev: C (Support High Definition) EC : Embedded IC ITE8512
System Memory	Capacity	Two 200-pin DDRII SODIMM sockets each for 512MB/1GB/2GB
	Type	DDR-II 667
	Max. Memory	2GB / 4GB (TBD) (Maximum) • Vista 32bits only supports 3GB Max.
Display	LCD	15.4" WXGA (1280x800) TFT, WXGA+(1440x900)
	Web Camera	1.3Mega-pixel Web-cam (Optional)
Storage	HDD	Removable 2.5" 9.5mm HDD with SATA150 Supported capacities of 80/100/120/160 (TBD) GB
	ODD	One field changeable Side opening optical media device 5.25"/12.7mm COMBO/ Super multi ODD Bezel lock to prevent tray pop out during dropping
Graphic	Graphic Controller	Integrated graphic controller
	Graphic Memory	Shared system memory up to totally 358MB Max.
I/O Devices	Point Device	Hidden Touch Pad – PS/2 mouse interface / 2 buttons support Right/Left
	Expansion Card	Card 54/34 slot x1
	Memory Card	4 in 1 card reader slot support MS/MS Pro./SD/MMC card
	Smart Card Reader	Smart Card reader
Communications	Networking devices	Integrated 56 Kbps v.92 fax/modem (MDC module) Integrated Gigabit bps Ethernet (RJ45 connector) System supports Wake on LAN from S3 on wired LAN connection
	Wireless networking devices	Two Mini Express card slots Intel Mini Express Card Wireless LAN 802.11a/b/g (3945) Optional Intel mini express Wireless LAN 802.11n (4965) Three antennae behind plastic A-plate inserts for 802.11a/b/g/n
	Bluetooth	Optional , support BT EDR 2.0

	WWAN	Optional WWAN 3G module that support HSDPA/EVDO The SIM card is secured behind a security-screwed door Antenna support for WWAN • 3G & WLAN can't work at the same time
I/O Ports	Standard	Three USB 2.0 connectors, gap of at least 5 mm between closest edge of ports One Head Phone out phone jack One Mic-in phone jack for external Microphone (Above two connectors mounted on side of unit, and black colored.) One RJ-11 jack for internal 56Kbps V.92 modem One RJ-45 jack for internal 10/100/1000M bit Ethernet One DC-In jack One 4 pin IEEE 1394 connector One 15 pin D-sub VGA port for ext. monitor/projector One 9 pin D-sub serial port
Audio	Features	High Definition Audio Stereo, support two 1.5W speakers Analog Microphone
Keyboard	Keyboard	88(US,UK,JP) Keys with Windows Key Key pitch: 19mm, Key Travel: 2.5mm
	Function Keys	Fn+F1 : Bluetooth on/off Fn+F2 : 3G on/off Fn+F3 : Touchpad on/off Fn+F4 : Suspend to RAM/Suspend to HDD Fn+F5 : LCD/CRT Display Switch(LCD->CRT->LCD+CRT) Fn+F6 : Brightness Decrease Fn+F7 : Brightness Increase Fn+F8 : Volume Decrease Fn+F9 : Volume Increase Fn+F10 : Mute
Status Indication	Power On/Off/ Suspend	Blue LED On/Off/ Flash
	Wireless	Blue LED On/Off
	Battery Charging	Charging On/Off: Orange LED On Low battery : Orange Flash Full : Green LED On
	Storage Access	HDD/ODD : Green LED On When Access
	Keyboard	Capital, Number : Green LED On When Locked
Power	AC Adapter	Input: 100-240V ~ ,50-60Hz Output: 20V, 3.25A, 65W AC/DC adapter is 90 degree angle connect to system
	Battery Pack	Standard Li-Ion 9-cell (3S3P, 6600mAH, 11.1V, 73.26WH) Smart Battery Pack Battery Life: Mobile Mark 2005 ----- 3.7Hrs Optional Li-Ion 6-cell (3S2P, 4400mAH, 11.1V, 48.84WH) Smart Battery Pack Battery Life: Mobile Mark 2005 ----- 2.5Hrs Charging time: 9-cell system off: 4Hrs, 6-cell system off: 3Hrs
BIOS		AMI Note BIOS 1024KB (8M bits) flash EPROM Including system BIOS, VGA BIOS, PnP Support shadow RAM BIOS feature Support Boot Block feature Support DMI 2.0/ SMBIOS 2.3/ ACPI 3.0/ SLP 2.0
	Booting	Support Boot From CD/ Ext. USB-FDD/ LAN

Power Management	Suspend	Hot key suspend (User selectable in OS Power Management Menu) Lid close suspend (User selectable in OS Power Management Menu) Resume the system by pressing any key (Suspend to RAM)
Dimensions & Weight		370mm (W) x 276mm (D) x 37.5~40 mm (H) 3.0 Kg (with ODD & 6 cells Battery) 3.2Kg (with ODD & 9 cells Battery)
Cosmetic	Case	A, D parts are Magnesium alloy & B,C parts are PC+ABS
Environment	Temp / Humidity	Operating Environment Temperature : 5°C~35°C Storage Environment Temperature : -20°C~60°C Operating Humidity : 10% ~ 90% Skin temp(max): 20 deg C on Magnesium-alloy; 25 deg C on Plastic at 25 degree C ambient C face is Spill proof. Including Keyboard, buttons and Indicators
Semi-Rugged Standard	Drop	Meet 2.5 feet with 26 drops to 2" of plywood over concrete with unit off and display closed. Up to 5 units to pass. MIL-STD-810F, Method 516.4, Procedure IV, Height Modified.
	Vibration	MIL-STD-810F, Method 514.4, Procedure I, Category 10, Fig. 16 & 17/ ASTM 4169, Truck Transport, 11.5.2 Random test, Assurance Level II
	Spill Proof	100C.C.water drop on all C cover area in 2-5 seconds with system operational, with no effect on system operation or stability.
Certification	EMI + RF + Safety	EMI+RF: US: FCC DOC+FCC ID Canada: FCC DOC+FCC IC EU: CE+CE! Safety: US/Canada: CUL EU: CB, RoHS complaint
Operating System	MS Windows OS	Windows XP and Vista
OS Certification	MS WHQL	Windows XP & Vista
Security		Kensington Lock Hole Administrator password/ Boot password
	TPM	TPM

Conventions

This guide uses the following conventions; the optional settings are shown in plain text, the default Viglen BIOS setting is highlighted in **Bold using Black Text**.. An example of which is shown below.

Enable	Optional BIOS Setting
Enable	Default Setting

BIOS Setup Program

The Setup program is for viewing and changing the BIOS settings for a computer. Setup is accessed by pressing the <F2> key after the Power-On Self Test (POST) memory test begins and before the operating system boot begins.

Table 1 Describes function of each Menu bar at top of system setup screen.

Table 1: Setup Menu Bar

Setup Menu Screen	Description
Main	Displays processor and memory configuration
Advanced	Specifies advanced features available through the chipset.
Boot	Specifies boot options and power supply controls.
Security	Defines motherboard security options.
Exit	Saves or discards changes to the Setup program options.

During setup, all Fn function keys and power saving functions are inhibited.

Table 2 shows the function keys available for menu screens.

Table 2: Setup Function Keys

Setup Key	Description
<<-> or <->>	Selects a different menu screen (Moves the cursor left or right)
<↑> or <↓>	Selects an item (Moves the cursor up or down)
<Tab>	Selects a field (Not implemented)
<Enter>	Executes command or selects the submenu
<F1>	General Help
<F10>	Save the current values and exits the BIOS Setup program
<Esc>	Exits the menu

Main Menu

When you enter the BIOS setup program, the main menu screen appears giving you an overview of the basic system information.

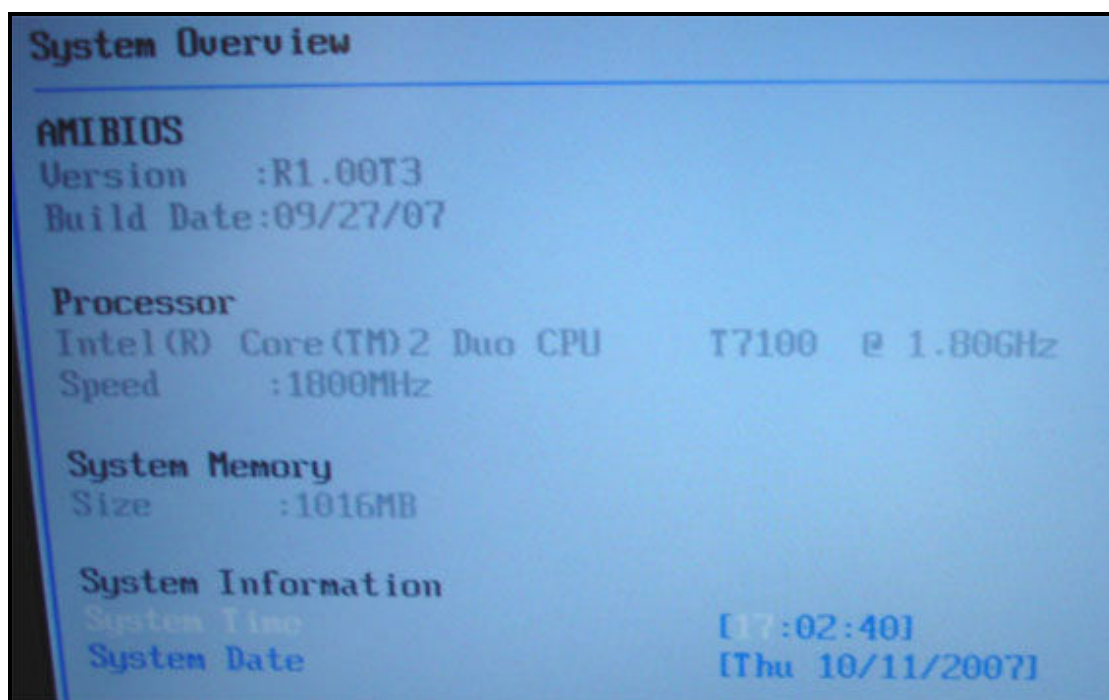


Figure 1: Main Menu

A detailed description of each of the features is given in the following table.

Table 3: Main Menu

BIOS Settings	Options	Description/Purpose
BIOS Version	No changeable options	Displays the version of the BIOS currently installed on the PC.
Build date	No changeable options	Displays the date of the BIOS when it was created.
Processor	No changeable options	Displays installed processor type.
Processor Speed	No changeable options	Displays the current Speed of the installed Processor.
System Memory	No changeable options	Displays the total amount of System Memory Installed.
System Date	Month, day, year	Allows you to manually set the system date.
System Time	Hour, minute, and second	Allows you to manually set the system time.

Advanced Menu

This menu allows user to configure advanced features for various system devices.

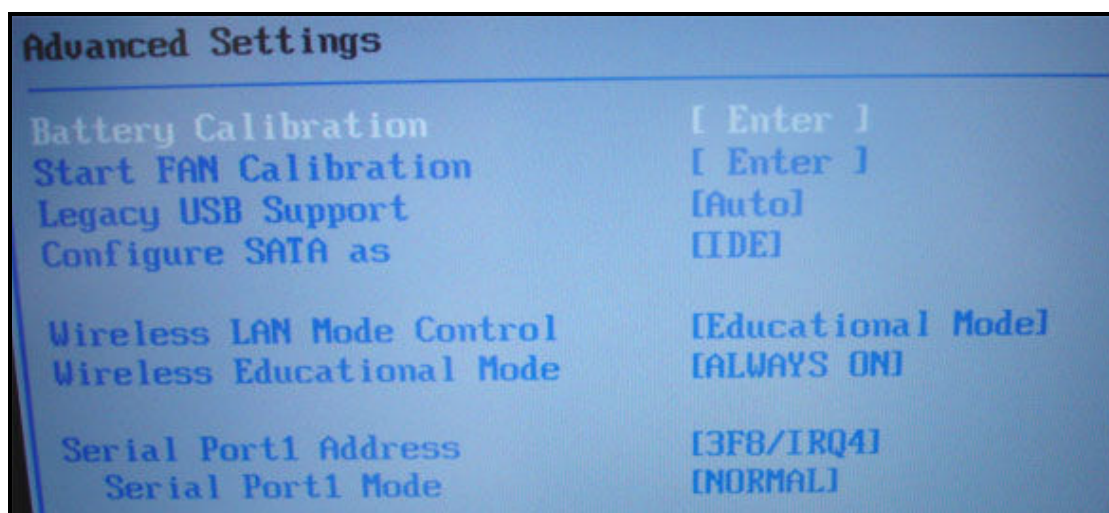


Figure 2: Advanced Menu

A detailed description of each of the features is given in the following table.

Table 4: Advanced Menu

BIOS Settings	Options	Description/Purpose
Battery Calibration	[Enter]	Battery Calibration
Start Fan Calibration	[Enter]	System FAN Calibration
Legacy USB Support	Disabled Auto	Disable Legacy USB Support Legacy Support for USB Keyboard , USB CD-ROM, USB FDD
Configure SATA as	IDE AHCI	SATA HDD set to use IDE mode SATA HDD set to use AHCI mode.
Wireless LAN Mode Control	Educational Mode Commercial Mode	Set Wireless to use in Educational Mode. Set Wireless to use Commercial Mode.
Wireless Educational Mode	Always On Always Off Auto*	Wireless button on/off functions disable. Wireless power always off Ethernet cable plug in then wireless power automatic turn off
Wireless Commercial Mode	Start on Start Off Recall	Switch on Wireless LAN in Commercial Mode on power on Switch off Wireless LAN in Commercial Mode on power on Recall previous Wireless LAN setting.
Serial Port1 Address	[Disabled] [3F8/IRQ4] [2F8/IRQ3] [3E8/IRQ4] [2E8/IRQ3]	Serial Port1 Address set to use Disabled. Serial Port1 Address set to use 3F8/IRQ4. Serial Port1 Address set to use 2F8/IRQ3. Serial Port1 Address set to use 3E8/IRQ4. Serial Port1 Address set to use 2E8/IRQ3.
Serial Port1 Mode	[NORMAL] [IrDA] [ASK IR]	Serial Port1 Mode set to use NORMAL. Serial Port1 Mode set to use IrDA. Serial Port1 Mode set to use ASK IR.

*Below is the definition for “AUTO”: under Wireless Educational Mode

”Auto” : Ethernet cable plug in then wireless power automatic off.,
Ethernet cable un-plug then wireless power automatic on.
Wireless power button on/off functions disable.

Boot Menu

This menu allows user to change the boot sequence from the available devices.

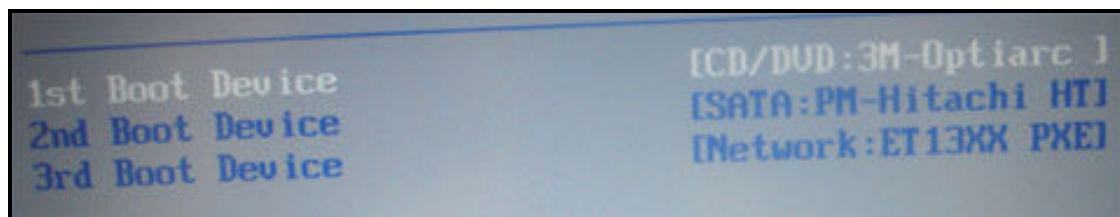


Figure 3: Boot Menu

A detailed description of each of the features is given in the following table.

Table 5: Boot Menu

BIOS Settings	Options	Description/Purpose
1 st Boot Device	CD/DVD Removable device HDD Network	Select 1 st Boot device.
2 st Boot Device	CD/DVD Removable device HDD Network	Select 2 nd Boot device.
3 rd Boot Device	CD/DVD Removable device HDD Network	Select 3 rd Boot device.
4 th Boot Device	CD/DVD Removable device HDD Network	Select 4 th Boot device.

Security Menu

The security menu allows the user to change the system security settings.

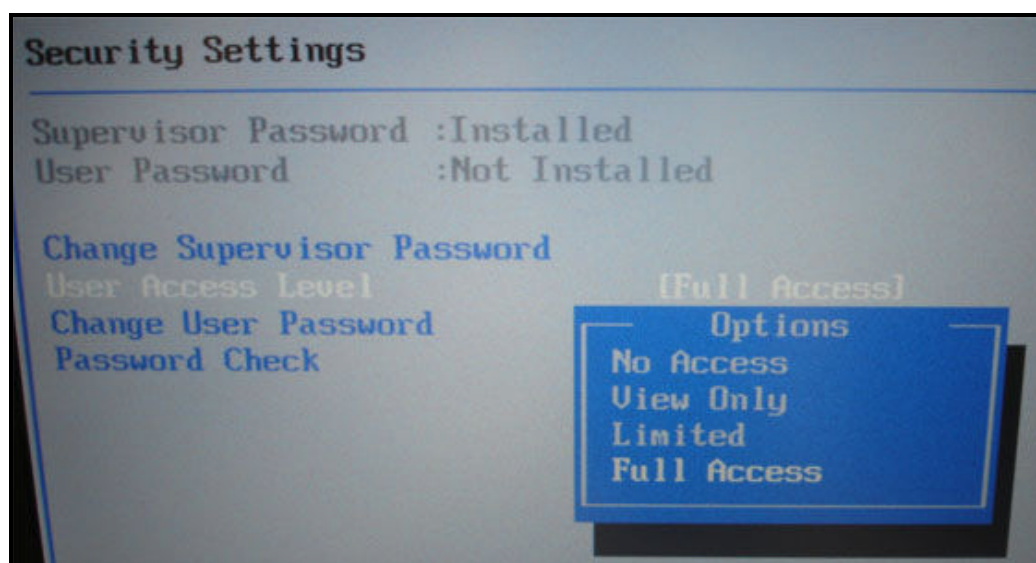


Figure 4: Security Menu

Table 6: Security Menu

BIOS Settings	Options	Description/Purpose
Supervisor Password	Installed Not Installed	Indicates whether a supervisor password has been set. If the password has been installed, Installed displays. If not, Not Installed displays. Allow the user to key in 6 digital value
User Password	Installed Not Installed	Indicates whether a supervisor password has been set. If the password has been installed, Installed displays. If not, Not Installed displays. Allow the user to key in 6 digital value
Change Supervisor Password	[Enter]	Select this option and press <Enter> to access the sub menu. You can use the sub menu to change the supervisor password.
User Access Level*	No Access View Only Limited Full Access	This allows the Supervisor to restrict access to Users in the BIOS <i>*This BIOS setting is present only if a supervisor password have been set.</i>
Change User Password	[Enter]	Select Change User Password from the Security Setup menu and press <Enter>. Enter New Password: appears. Type the password and press <Enter>. The screen does not display the characters entered. Retype the password as prompted and press <Enter>. If the password Confirmation is incorrect, an error message appears.
Password Check	Setup Always	Check password while invoking setup Check password while invoking setup a well as on each boot.

For Information Only

A supervisor password and a user password can be set for the BIOS Setup program and for booting the computer, with the following restrictions:

- The supervisor password gives unrestricted access to view and change all the Setup options in the BIOS Setup program. This is the supervisor mode.
- The user password gives restricted access to view and change Setup options in the BIOS Setup program. This is the user mode.
- If only the supervisor password is set, pressing the <Enter> key at the password prompt of the BIOS Setup program allows the user restricted access to Setup.
- If both the supervisor and user passwords are set, users can enter either the supervisor password or the user password to access Setup. Users have access to Setup respective to which password is entered.
- Setting the user password restricts who can boot the computer. The password prompt will be displayed before the computer is booted. If only the supervisor password is set, the computer boots without asking for a password. If both passwords are set, the user can enter either password to boot the computer.
- For enhanced security, use different passwords for the supervisor and user passwords.
- Valid password characters are 6 digital value.

Table 7 shows the effects of setting the supervisor password and user password.

This table is for reference only and is not displayed on the screen.

Table 7: Supervisor and User Password Functions

Password set	Supervisor Mode	User Mode	Setup Options	Password to Enter Setup	Password During Boot
Neither	Can change all options (Note)	Can change all options (Note)	None	None	None
Supervisor only	Can change all options	Can change a limited number of options	Supervisor Password	Supervisor	None
User only	N/A	Can change all options	Enter Password Clear User Password	User	User
Supervisor and user set	Can change options	Can change a limited number of options	Supervisor Password Enter Password	Supervisor or user	Supervisor or user

Note: If no password is set, any user can change all Setup options.

Change Supervisor Password

Select this item to set or change the supervisor password. The Supervisor Password item on top of the screen shows the default **“Not Installed”**. Once password is set, this item shows **“Installed”**.

To set a Supervisor Password:

1. Select the Set Supervisor Password item and press Enter.
2. On the password box that appears, type a password composed of 6 digital value then press Enter. Confirm the password when prompted.

The message **“Password Installed”** appears after you have successfully set your password.

The Supervisor Password item now shows **Installed**.

To change the supervisor password, follow the same steps as in setting a user Password.

To clear the supervisor password, select the Change Supervisor Password then press Enter. The message **“Password Uninstalled”** appears.

After you have set a supervisor password, the other items appear to allow you to change other security settings.

Exit Menu

The exit menu allows the user to load setup BIOS defaults and save or discard any changes made to the BIOS settings.

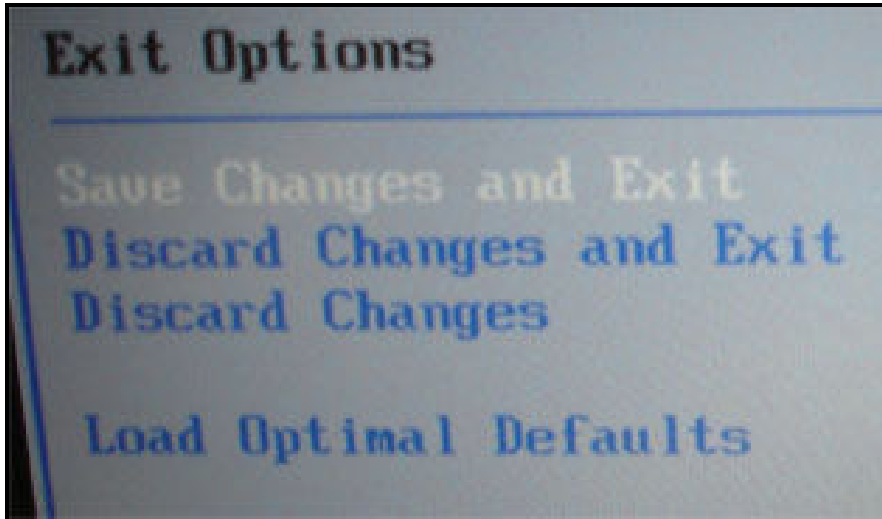


Figure 31: Exit menu

Table 8: Exit Menu

Feature	Options	Description
Save Changes and Exit	Enter	If selected any changes made in the BIOS setup program se will be saved before exit.
Discard Changes and Exit	Enter	If selected any changes made in the BIOS will be discarded before exit.
Discard Changes	Enter	This option simply discards any changes made in the BIOS.
Load Optimal Defaults	Enter	This option simply discards any changes made in the BIOS and restores custom defaults for setup options.

Save Changes and Exit :

Save configuration changes and exit setup?
[OK] [Cancel]

If select [OK] , Exit system setup after saving the changes.

If select [Cancel] , Exit the prompt message.

Discard changes and Exit:

Discard changes and exit setup?	
[OK]	[Cancel]

If select [OK] , Exit system setup without saving any changes.

If select [Cancel] , Exit the prompt message.

Discard changes:

Discard changes?	
[OK]	[Cancel]

If select [OK] , Discards changes done so far to any of the setup questions.

If select [Cancel] , Exit the prompt message.

Load Optimal Defaults:

Load Optimal Defaults?	
[OK]	[Cancel]

If select [OK] , Load Optimal Default values for all the setup questions.

If select [Cancel] , Exit the prompt message.