

Preface

“The PS-3650A Series Windows® 2000 Multi-Language Preinstalled Hard Disk Unit” includes an HDD drive with Microsoft corporation's preinstalled Windows® 2000 operating system, as well as other driver and utility software. These items are used when operating Pro-face's Compact Panel Computer PS-3650A Series unit, hereafter referred to collectively as the "PS-A".

Corresponding models: PS3650A-T41, PS3651A-T41

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Pro-face : Digital Electronics Corporation (in Japan and other countries)

Windows® 2000 : Microsoft® Corporation (USA)

Symantec Ghost™ : Symantec Corporation

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This HDD unit contains a preinstalled version of Windows® 2000 Professional. Be sure to read and agree to all conditions stated herein prior to using this product. If you do not agree to all the conditions stated in this agreement, please return the entire product.

COA Data

* This Installation Guide is an important part of this product. Be sure to keep it in an easy-to-find location.

Microsoft® Windows® 2000 Professional for Embedded Systems

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IN-finity soft Keyclick32

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Safety Cautions

WARNING

- Be sure to check that the PS-A unit's power is disconnected before installing the unit, in order to prevent an electrical shock.
- Do not attempt to modify or open the HDD unit, since it can cause a shock or fire.
- When installing the HDD unit, be sure to read the following "2. Installation" section's information completely to insure that the unit is correctly installed.

To Prevent Accidents

- Since the HDD unit is a precision instrument, be sure it is neither hit by nor pressed strongly against another object. After unpacking, be sure the unit is not dropped or jolted during installation. Also, a PS-A unit built in to a larger unit (i.e. operation panel) should be removed and packed separately prior to shipping.
- Be sure water, liquids or metal particles are not allowed to enter the HDD unit. Any of these may cause either a breakdown or an electrical shock.
- Do not place or store this unit in a location where there is direct sunlight, excessive heat, dust or vibration.
- Do not store or operate this unit near chemicals, or where there are chemical fumes.
- Do not allow anyone other than Pro-face's own service staff to perform maintenance or adjustments to this unit.
- Do not move or shift the PS-A unit while the HDD unit is installed and the PS-A unit's power is ON.
- Do not use the HDD unit in locations where corrosive gasses are present, since they can lead to a hard disk breakdown.
- To prevent damage to your data, be sure to shut down the PS-A unit's OS according to the correct procedure before turning OFF the main power.
- To prevent HDD memory leaks, restart the OS periodically.
- The hard disk has the lifetime. To use it longer by steady operation, read the attached "Instructions for Using the Hard Disk" carefully.
- In order to extend the lifetime of the hard disk, Pro-face recommends you set the Windows® [Control panel]-[Power Management option]-[Turn off hard disks] selection to turn the hard disk off when the unit is not being operated. A setting of 5 minutes is recommended.

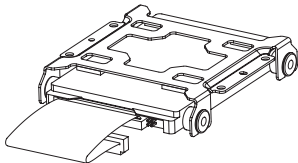
Unit Disposal

- When this HDD unit is disposed of, it should be done so according to your country's regulations for similar types of industrial wastes.

Package Contents

Please check that the following items are all included in your package.

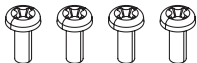
- Windows® 2000 Multi-Language
Preinstalled HDD unit (1)



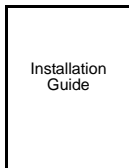
- Recovery DVD (1)



- Attachment Screws (4)



- Installation Guide (1) (This Guide)



- Instructions for Using the Hard Disk (1)



- Symantec Ghost™ EULA (1)

Pro-face has taken the utmost care to ensure the quality of this product when it was shipped, however, should, for any reason, problems or damage have occurred during shipping, please contact your Pro-face representative immediately for service.

1 Hardware Specifications

■ Features

Capacity	40GB
Average Seek Time	12msec(TYP)
Power Consumption	At Startup : 5.0W (MAX)
	Read/Write : 1.8/1.8W (TYP)
	During Wait : 0.2W(TYP)
Interface	PATA
Operation Lifetime	5 years, or 20,000 operating hours, whichever comes first
Weight	Approx. 200g

IMPORTANT

- This HDD unit has a finite usage lifetime. Therefore, be sure to back up all HDD data periodically and/or prepare a backup HDD unit.
- The HDD unit's lifetime will vary, depending on the usage conditions and environment. The above value is calculated assuming an ambient temperature of 20°C and 333 hours of operation per month. (HDD access frequency of 20% or less)
- To use the hard disk longer by steady operation, read the attached "Instructions for Using the Hard Disk" carefully.

■ Environment

The specification value when a HDD unit is installed in a PS-A

Operating Temperature	PS-3650A	+5°C to +50°C
	PS-3651A	+5°C to +45°C
Storage Temperature		-10°C to +60°C
Ambient Humidity		10%RH to 85%RH (no condensation) (Wet bulb temperature: 29°C or less)
Noise Resistance (via Noise Simulator)		Noise Voltage: 1500Vp-p Pulse Width: 50ns, 500ns, 1μs
Electrostatic Discharge Immunity		6kV
Vibration Resistance		4.9m/s ² (10Hz to 25Hz) (When Operating)
Shock Resistance		3920m/s ² (1ms, Half-sine shock pulse)(When Operating)

IMPORTANT

- Using the HDD unit in an environment that is excessively hot and/or humid will shorten the disk's usage lifetime. A wet bulb temperature of 29°C or less is recommended. This is equivalent to the following data.

Temperature	Humidity
at 35°C	no higher than 64%RH
at 40°C	no higher than 44%RH

2 Installation

Be sure to use the following installation procedures to insure that the HDD unit is correctly installed. The Installation location will differ, depending on the type of PS-A unit you are using.

WARNING

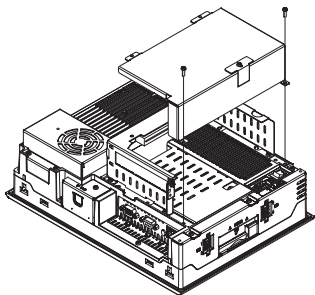
- Shock Danger! Be sure to disconnect the PS-A unit from its power supply prior to installing the HDD unit.

IMPORTANT

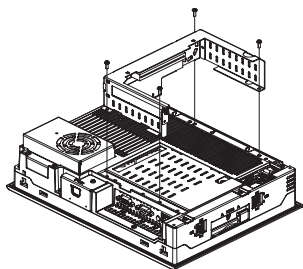
- Since the HDD unit is a precision instrument that has a low resistance to shocks, be sure it is neither hit by nor pressed strongly against another object when installing it.
- Even when the PS-A unit's screen display disappears, the power might be distributed inside (such as the "Standby" status etc). Be sure to confirm that the power supply switch on the rear side of the PS-A unit is OFF.

■ When attaching the HDD to the PS-3650A

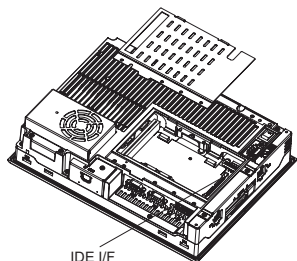
- (1) Turn off the power switch of the PS-A unit, remove the power cable. Put the PS-A on the horizontal place while the display side of it is downside.



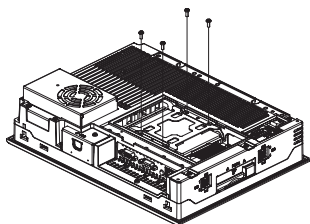
- (2) Unscrew the screws (2) from the Expansion Board Cover, and remove the Cover.
When using the PCI board, it is required to remove the Expansion Board Support first. Then remove the Expansion Board Cover and the PCI board.



- (3) Unscrew the screws (4), which are seen on the left figure, and remove the Expansion Board Base.



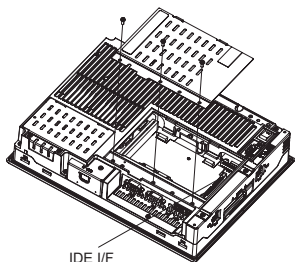
- (4) Remove the IDE cover and plug the HDD unit cable connector in the IDE's interface (Seen the figure on the left).



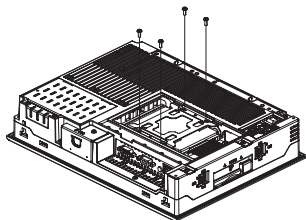
- (5) Install the HDD unit like the left figure, and fix it with the screws (4) which are contained in your package. The torque strength for the fixing should be a range of 0.5 to 0.6 N•m.
- (6) With opposite procedure above, set the IDE cover, Expansion Board Base, and Expansion Board Cover to the PS-A unit, respectively.

■ When attaching the HDD to the PS-3651A

- (1) Turn off the power switch of the PS-A unit, remove the power cable. Put the PS-A on the horizontal place while the display side of it is downside.



- (2) Unscrew the screws (3) of the IDE cover and remove the IDE cover. Plug the HDD unit cable connector in the IDE's interface (Seen the figure on the left).



- (3) Install the HDD unit like the left figure, and fix it with the screws (4) which are contained in your package. The torque strength for the fixing should be a range of 0.5 to 0.6 N•m.

- (4) Place the IDE cover back and fix it with the screws (3) of the IDE cover.

3 Hardware Setup

The following is the setting method of system information to make BIOS recognize the hard disk correctly.

IMPORTANT

- Normally, the factory default settings should be used.
- Certain BIOS screen items may differ from those shown here due to new versions or the PS-A unit you are using.

NOTE

- The following explanation uses the PS-A unit's factory settings.

- Install the HDD unit in the PS-A.

SEE →**2 Installation**

(If the HDD unit is already installed, this step is not necessary.)

- Connect a keyboard to the PS-A.
- Right after turn the PS-A unit's power ON, keep on pressing [F2] key. The Setup utility will start.
- Point the cursor to [Primary Master] on [Main] menu and press the [Enter] key and the following screen appears.

PhoenixBIOS Setup - Copyright 1985-2001 Phoenix Technologies Ltd.		
Main		
Type:	[Auto]	Item Specific Help
Total Sectors:		User = you enter Parameters of hard-disk drive installed at this connection. Auto = autotypes hard-disk drive installed here. 1-39 = you select pre-determined type of hard-disk drive installed here. CD-ROM = a CD-ROM drive is installed here. ATAPI Removable = removable disk drive is installed here.
Maximum Capacity:		
Multi-Sector Transfer:	[16 Sectors]	
LBA Mode Control:	[Enabled]	
32 Bit I/O:	[Disabled]	
Transfer Mode:	[FPIO 4 / DMA 2]	
Ultra DMA Mode:	[Mode 5]	

- Confirm whether "AUTO" is selected for [Type]. (The factory setting is "AUTO" and recommended for most users.)
- Press the [ESC] key and the screen returns to the previous one. Select [Exit] menu and point the cursor to [Exit Saving Changes] and press the [Enter] key. The system settings will be saved and this process will exit and the OS will then start.

4 OS Setup

■ Software Included

Your Windows® 2000 Multi-Language preinstalled hard disk unit contains the following software.

- Microsoft corporation's Windows® 2000 Professional for Embedded OS
- DMC Corporation's Mouse Emulation Software (TSC-1310D/DD)
- IN-fINITY soft's Keyboard Emulator KeyClick32
- Pro-face's PS-A utility software and drivers

■ Windows® 2000 Setup Procedure

The Windows® 2000 Setup Procedure will be described below. The setting items differ depending on a user's environment. Please check with your network manager and make correct settings.

NOTE

- A detailed explanation of the software included, as well as a list of the revisions made after the printing of this document can be found in the HDD unit's README file. Be sure to see it before work.
- A keyboard is required in order to set up OS.

- (1) Once the PS-A unit's power is turned ON, this HDD unit's [Windows 2000 Professional Setup] screen, and then the [Welcome to the Windows 2000 Setup Wizard] will appear. Click the [Next] button.
- (2) The [License Agreement] screen will appear.
After reading the contracts, press [I accept this agreement] if you agree, and click the [Next] button.
- (3) The [Regional Settings] screen will appear.
After entering the data for your area, click the [Next] button.
- (4) The [Personalize Your Software] screen will appear.
After entering your name [Name] and [Organization], click the [Next] button.
- (5) The [Your Product key] screen will appear.
After entering the product key data, click the [Next] button.
- (6) The [Computer Name and Administrator Password] screen will appear.
Enter the [Computer Name and Administrator Password], and [Confirm Password], then click the [Next] button.
When entering the [Computer Name], if the name shown on the display is not correct, you can enter another name. When the computer is connected to a network, be sure to ask your network manager what is the correct name for this field.
- (7) The [Date and Time Settings] screen will appear.
After entering these settings, click the [Next] button.
- (8) The [Network Settings] screen will appear.
Choose whether to use typical or custom settings depending on your PC circumstance.

- (9) The [Workgroup or Computer Domain] screen will appear.
Choose whether to make your PC on a network or not depending on your PC circumstance.
- (10) [Performing Final Tasks] is automatically done by the PS-A.
The [Completing the Windows 2000 Setup Wizard] will appear. Press the [Finish] button and the system will automatically restart.
- (11) When the [Network Identification Wizard] and the [Welcome to the Network Identification Wizard] is started, please press the [Next] button. The [Users of This Computer] screen will appear. After entering the desired settings, press the [Next] button and then press the [Finish] button.
- (12) The [Setting] dialog box will appear and initial setting will be automatically made. After the setting is completed, the system is automatically restarted and then Windows® 2000 can be used.

5 The Languages

The Windows® 2000 Multi-Language Preinstalled Hard Disk Unit contains the following languages;

Chinese (Simplified)	English	Hungarian	Russian
Chinese (Traditional)	Finnish	Italian	Spanish
Czech	French	Polish	Swedish
Danish	German	Portuguese (Brazil)	Turkish
Dutch	Greek	Portuguese (Portugal)	

■ Designating the Language

- (1) Select the Windows® 2000 [Start] menu's [Settings], then [Control Panel] command.
- (2) Select the [Regional Options] command.
- (3) Select the appropriate language from "Menu and dialogs:" in the "General" tab.

6 HDD Recovery Procedure

IMPORTANT

- After performing hard disk recovery, the PS-A unit's hard disk is returned to its factory shipped condition.
- For recovery, USB DVD-ROM drive on the market and USB keyboard are required.

Use the following steps used to recover the Windows® 2000 Multi-Language Preinstalled Hard Disk.

- (1) Turn on the power of PS-A and immediately press the [F2] key to enter the BIOS setup screen. Insert the Recovery DVD into the DVD-ROM drive.
- (2) On the [Boot] menu, move "USB CDR0M" (the name of the DVD drive inserted the Recovery Media) to the top of the screen using the [+] key or the [-] key.
- (3) Press the [F10] key and select [Yes] for [Save configuration changes and exit now?] to save the setting and restart the PS-A unit.
- (4) After the PS-A unit restarts, the Symantec Ghost™ will automatically start.
- (5) After the Symantec Ghost™ starts, the [Question] dialog box will appear. "Partition sizes correct?"
- (6) The volume displayed in New Size will be recovered. After confirming it, press the [Yes] button. To change it, press the [No] button and go to the [Destination Drive Details] dialog box. In the [Destination Drive Details] dialog box, change the size of the New Size and press the [OK] button.
- (7) The [Question] dialog box will appear. Press the [Yes] button. It will be reconfirmed that the data of the hard disk is all reset to the original values at the time of delivery. "Proceed with disk restore?
Destination drive will be permanently overwritten."
- (8) The hard disk recovery program will start.
After the recovery operation finishes, the Symantec Ghost™ also will finish. When the message "Please turn off computer" displayed, turn off the power of PS-A.
- (9) Turn on the power of PS-A again and immediately press the [F2] key to enter the BIOS setup screen.
- (10) Press the [F9] key and select [Yes] for [Load default configuration now?] to set the BIOS setting to the factory setting. Press the [F10] key to save the settings and restart the PS-A unit.
- (11) After the unit restarts, set up your OS.

SEE →

4 OS Setup

IMPORTANT

- If the hard disk unit breaks down due to a hardware problem, (Ex. if BIOS cannot find the hard disk, if the hard disk's lifetime expires, or it breaks down), Symantec Ghost™ cannot recover the hard disk. Pro-face recommends that in this case you contact your local PS-A distributor for instructions about hard disk recovery or replacement.
- Pro-face does not guarantee the preservation of any data stored on the HDD unit if the HDD unit has an accident, malfunctions or is damaged in any way. Therefore, the regular backing up of important HDD unit data to either floppy disks, or other type of suitable magnetic media is strongly recommended.

Note

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