

CUPC-P200 Series User Manual

(P200, P220)

[Version 1.0]



COMFILE
TECHNOLOGY

COMFILE Technology Inc.
www.comfiletech.com

Table of Contents

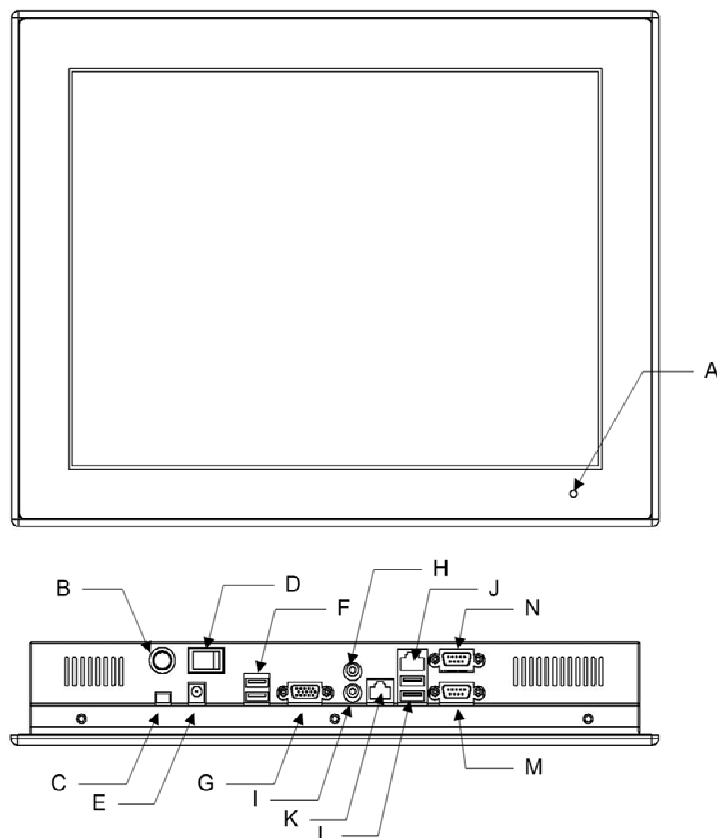
Chapter 1. Hardware Specification	3
Chapter 2. External Parts	4
Chapter 3. Dimensions	5
3-1. CUPC-P200 Dimensions	5
3-2. CUPC-P220 Dimensions	6
Chapter 4. PANEL CUTOUT	7
4-1 Installation Requirements and Installation	7
Chapter 5. Bracket Installation	8
5-1. CUPC-P200 Bracket Installation	8
5-2. CUPC-P220 Bracket Installation	9
Chapter 6. Input/Output Connectors	10
6-1. VGA Output Connector	10
6-2. RS232C Input/Output Connector (COM1, COM2, COM3)	10
6-3. Power Input Connector	11
Chapter 7. System Restoration	12
7-1. Getting Ready	12
7-2. ROM Bios Configuration	13
7-2-1. Changing First Boot Device	13
7-3. Booting with the WinClon SDCARD	15
7-4. Restoration	16
7-5. Backing Up	21
MEMO	27

Chapter 1. Hardware Specification

Item	Model name	
	CUPC-P200	CUPC-P220
CPU	Intel ATOM N270 1.6GHz	
Chipset	Intel 945GSE + ICH7M	
Memory	2GB SODIMM DDR2 SDRAM	
Graphic & Display	Intel 945GSE Embedded Graphics Support VGA CRT output Support Pivot	
LCD	15inch 16.7M Colors, XGA(1024x768), 300cd/m ²	10.4inch 262K Colors, XGA(1024x768), 300cd/m ²
Backlight	2Channel CCFL LT : >50,000hr	1Channel CCFL LT : >30,000hr
Ethernet	VIA VT6130 Gigabit Ethernet(2Port)	
Audio	VIA High Definition Audio Audio Out (1Port) MIC In (1Port)	
USB	Universal Serial Bus Support (4Port) Support USB2.0 Host Controller	
HDD	SATA HDD Interface	
Serial	RS232C Serial (2Port)	
Input Power	DC+12V	
Power Consumption	<32W (2.6A@12V)	<28W (2.3A@12V)
Dimension(mm)	376(H) x 300(V) x 60(D)	280(H) x 300(V) x 60(D)
Weight	5.1Kg	2.5Kg
Operating Temperature	0℃ ~ 60℃	

[Table 1] CUPC Hardware Specification

Chapter 2. External Parts

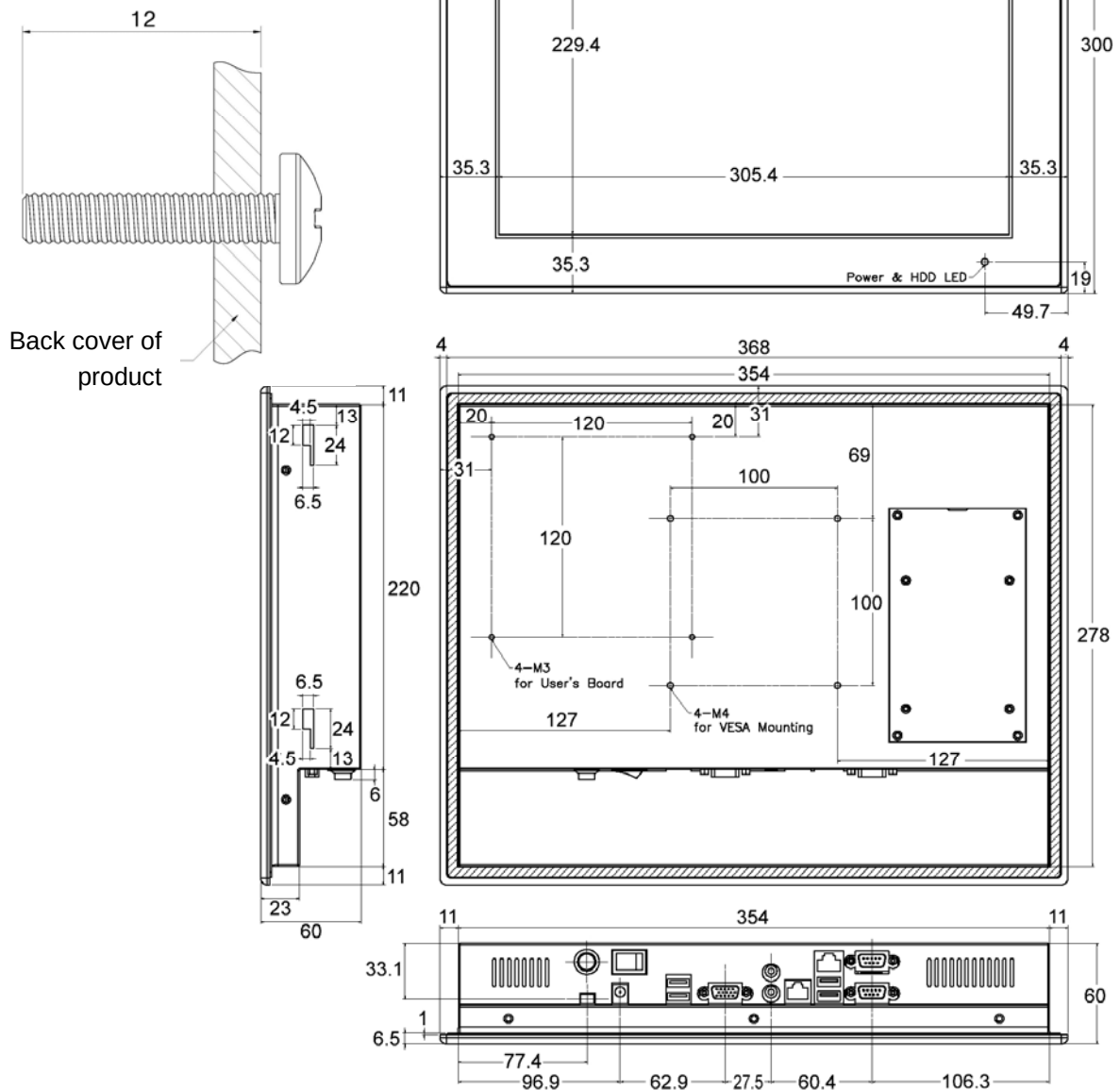


	Name	Description
A	Power/HDD LED	The green LED is turned on, when the power is supplied. The red LED is turned on, when the hard disk is read or written.
B	ATX Power S/W	ATX mode power switch. Boot or exit the system.
C	Ext. Power S/W	The connector which can be linked to external switch. Same function with ATX Power switch
D	Power S/W	Power input ON/OFF
E	DC IN	ø2.5 Adaptor Input Connector (DC +12V)
F	USB Port	USB1/USB2 (USB2.0)
G	VGA Port	VGA output for external monitor.
H	Audio Out	Sound output for external speaker
I	MIC IN	Microphone input
J	LAN2 Port	Support 100BaseT, with RJ-45 type connector
K	LAN1 Port	Support 100BaseT, with RJ-45 type connector
L	USB Port	USB3/USB4 (USB2.0)
M	COM1 Port	COM1 (RS232C, D-SUB 9Pin Male Type)
N	COM2 Port	COM2 (RS232C, D-SUB 9Pin Male Type)

Chapter 3. Dimensions

3-1. CUPC-P200 Dimensions

Avoid using long bolts when assembling VESA mounts or add-on board.
The inner maximum length is about 12mm.

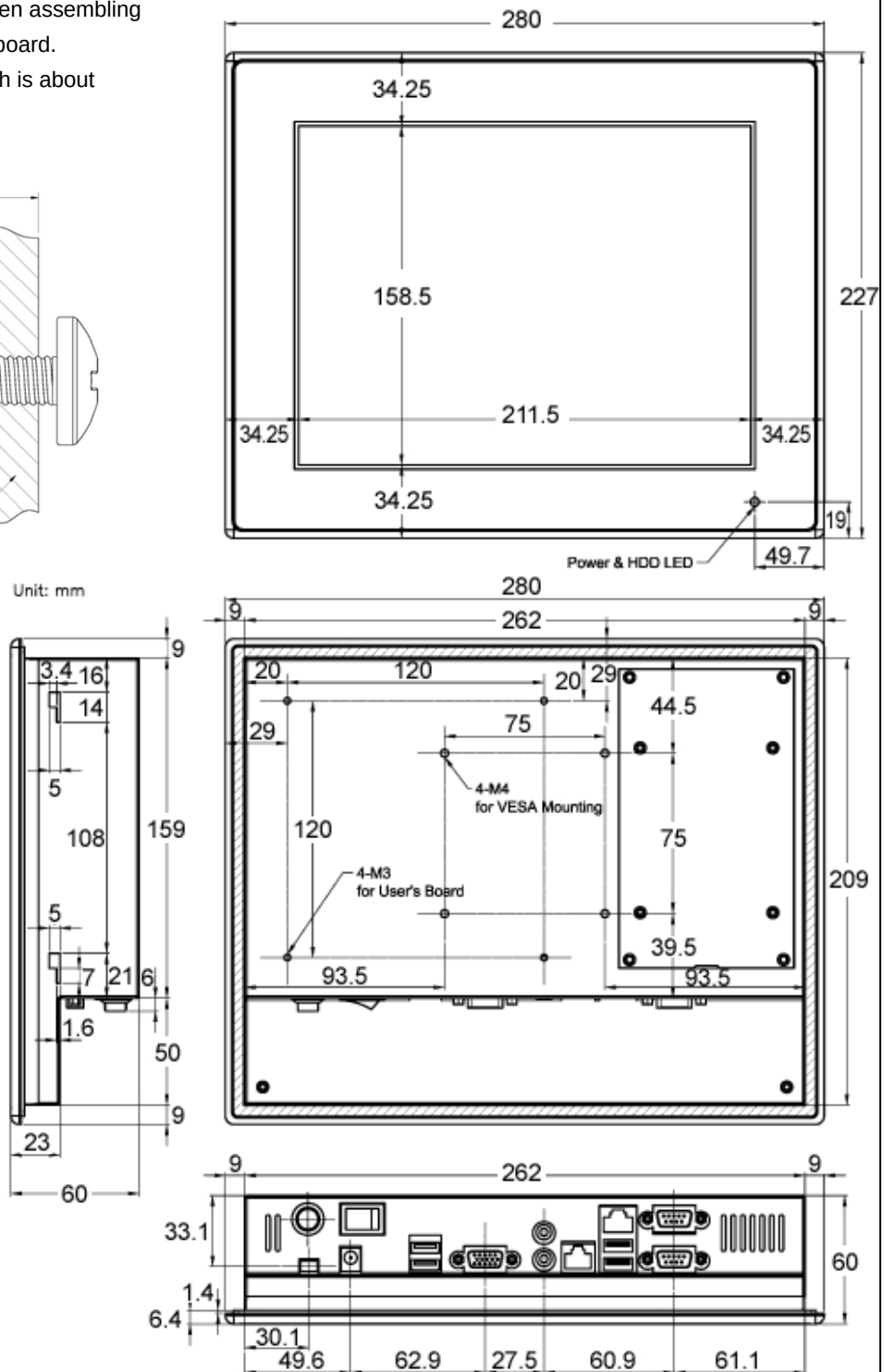
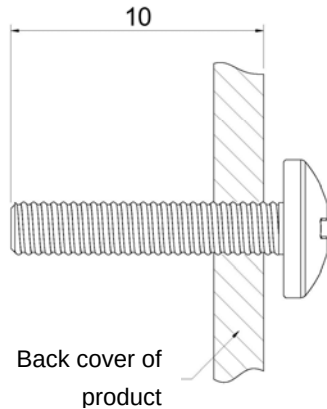


[Figure 1] CUPC-P200 Dimensions

3-2. CUPC-P220 Dimensions

Avoid using long bolts when assembling VESA mounts or add-on board.

The inner maximum length is about 10mm.

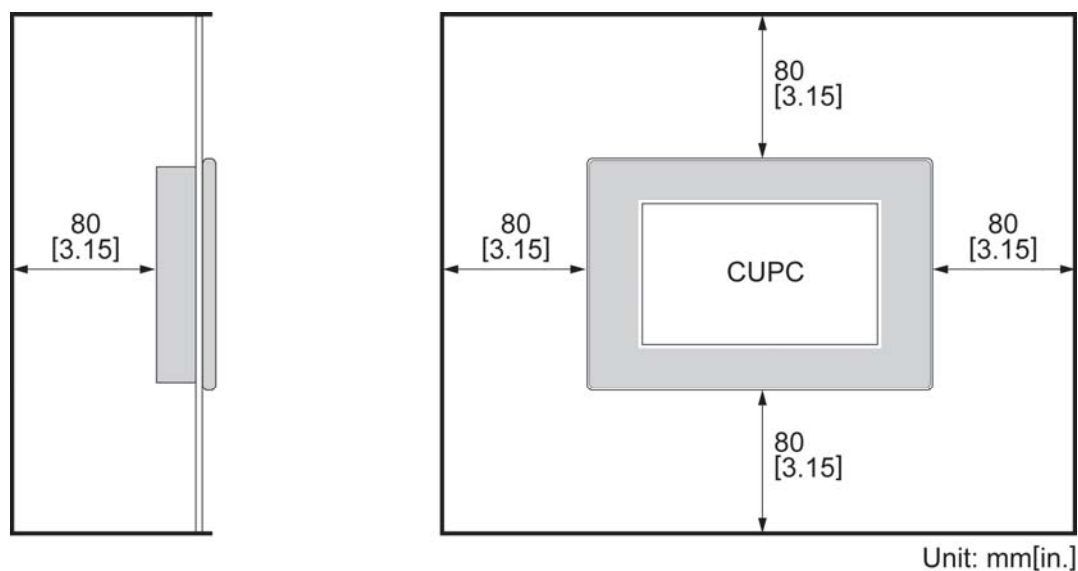


[Figure 2] CUPC-P220 Dimensions

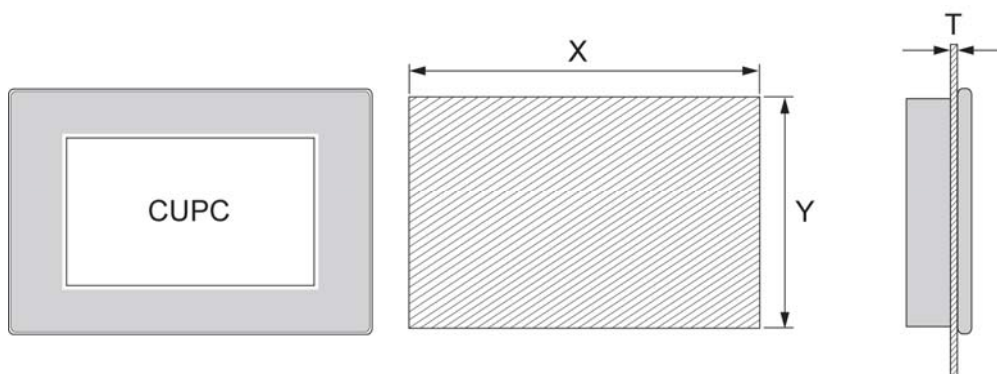
Chapter4. PANEL CUTOUT

4-1 Installation Requirements and Installation

[Installation Requirements]



[Installation]



CUPC	X (Width)	Y (Height)	T (Thickness)	Unit
P200	355 [13.98]	279 [10.99]	1.6 to 12.0 [0.06 to 0.47]	mm [inch]
P220	263 [10.36]	210 [8.27]	1.6 to 6.0 [0.06 to 0.24]	mm [inch]

Chapter 5. Bracket Installation

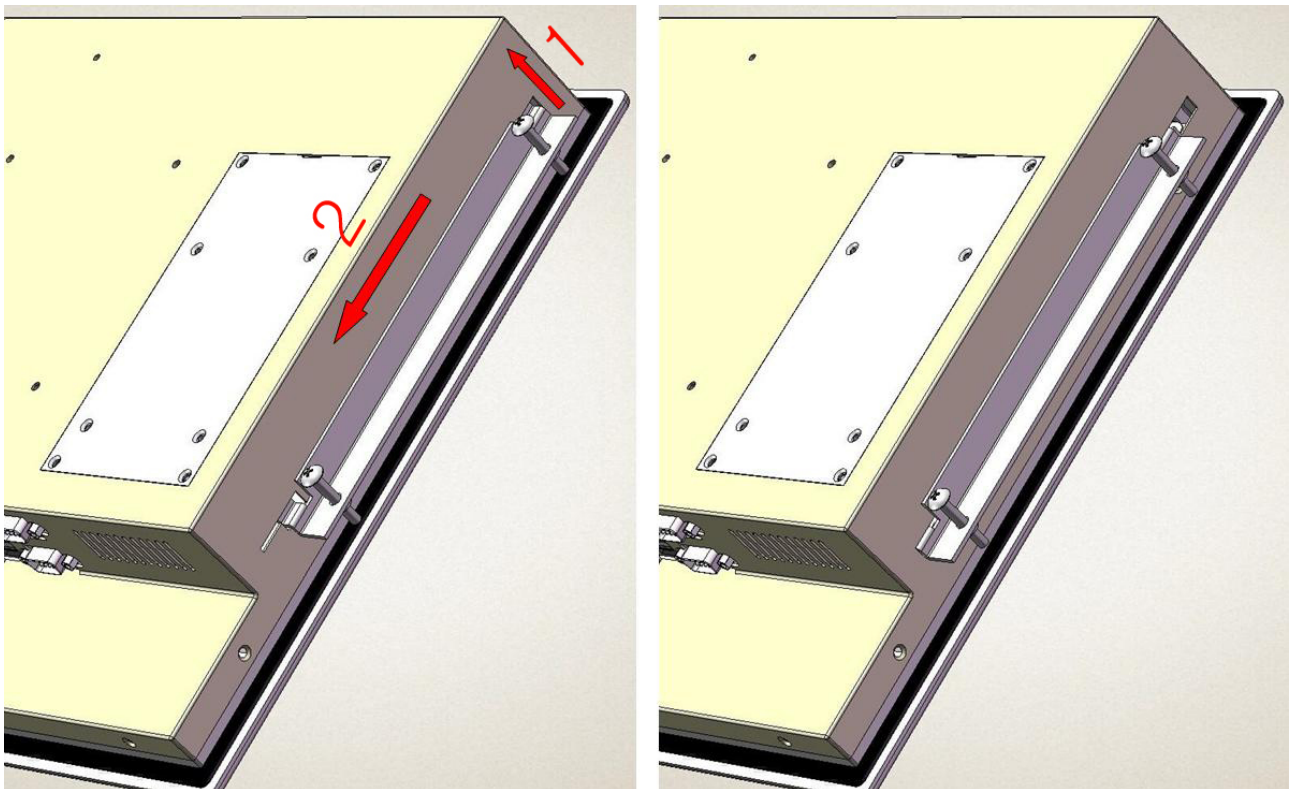
5-1. CUPC-P200 Bracket Installation

To fasten CUPC-P200 to an upright panel, the brackets (left, right) are supplied when you purchase P200.



* Procedure *

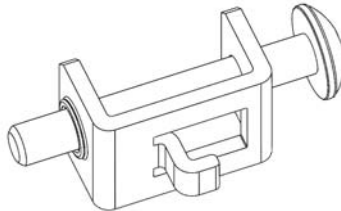
- 1) Push and install the CUPC-P200 into your panel.
- 2) Press the bracket as the following directions in two steps.



- 3) To fix the CUPC-P200 to the panel, fasten the bolts.

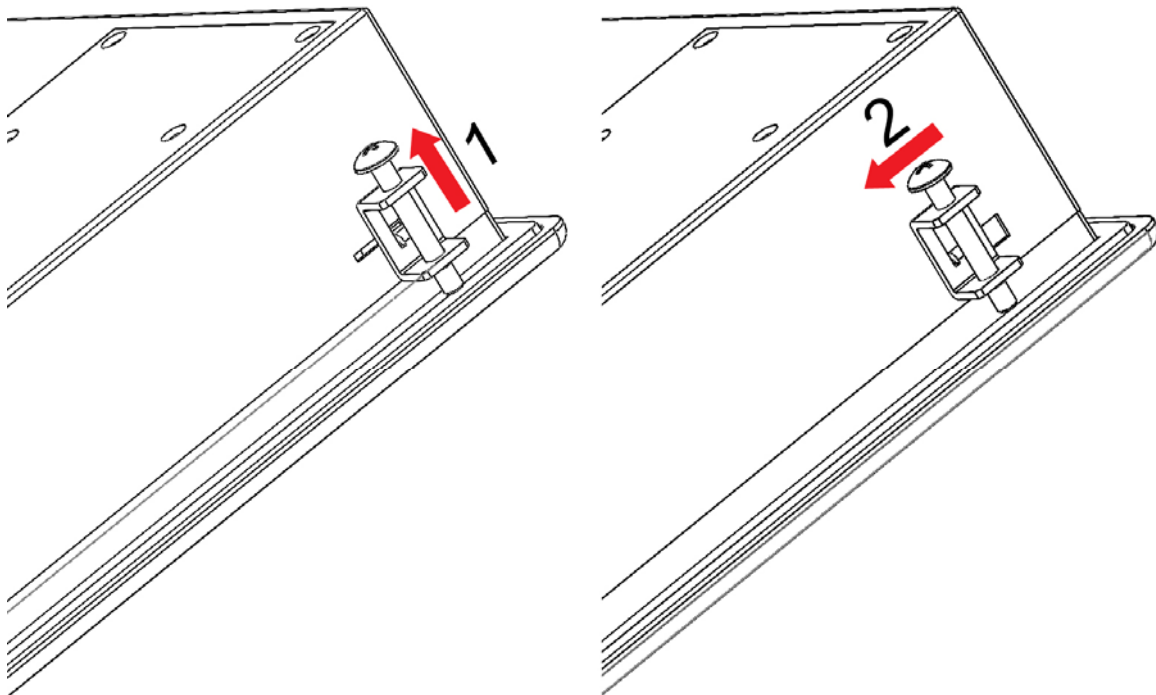
5-2. CUPC-P220 Bracket Installation

To fasten CUPC-P220 to an upright panel, the brackets (left 2ea, right 2ea) are supplied when you purchase P220.



*** Procedure ***

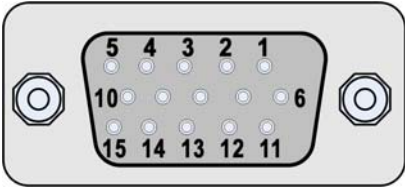
- 1) Push and install the CUPC-P220 into your panel.
- 2) Press the bracket as the following directions in two steps.



- 3) To fix the CUPC-P220 to the panel, fasten the bolts.

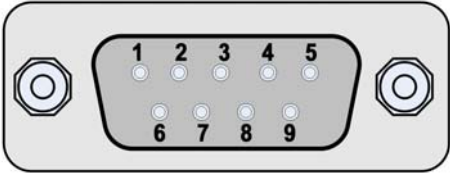
Chapter 6. Input/Output Connectors

6-1. VGA Output Connector

Connector Type			
 * D-SUB 15Pin Female			
Pin Assignment			
Pin No.	Signal	Pin No.	Signal
1	RED	2	GREEN
3	BLUE	4	–
5	GND	6	GND
7	GND	8	GND
9	DDC VCC (+5V)	10	GND
11	–	12	DDC DATA
13	HSYNC	14	VSYNC
15	DDC CLK	–	–

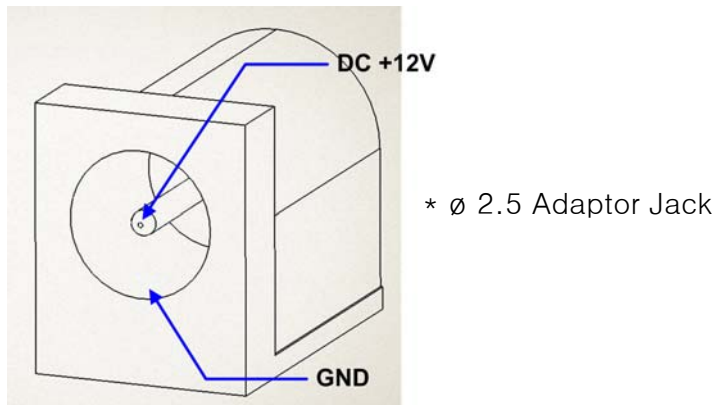
[Table 2] VGA Output Connector Type and Pin Assignment

6-2. RS232C Input/Output Connector (COM1, COM2, COM3)

Connector Type			
 *D-SUB 9Pin Male			
Pin Assignment			
Pin No.	Signal	Pin No.	Signal
1	DCD	2	RXD
3	TXD	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI	–	–

[Table 3] RS232C Input/Output Connector Type and Pin Assignment

6-3. Power Input Connector



[Figure 3] Power Input Connector Type and Pin Assignment

**CAUTION**

- Make sure the power supply is turned off when you begin wiring.
- Before you turn on the power supply, please check the voltage of power supply and wiring is all ok.

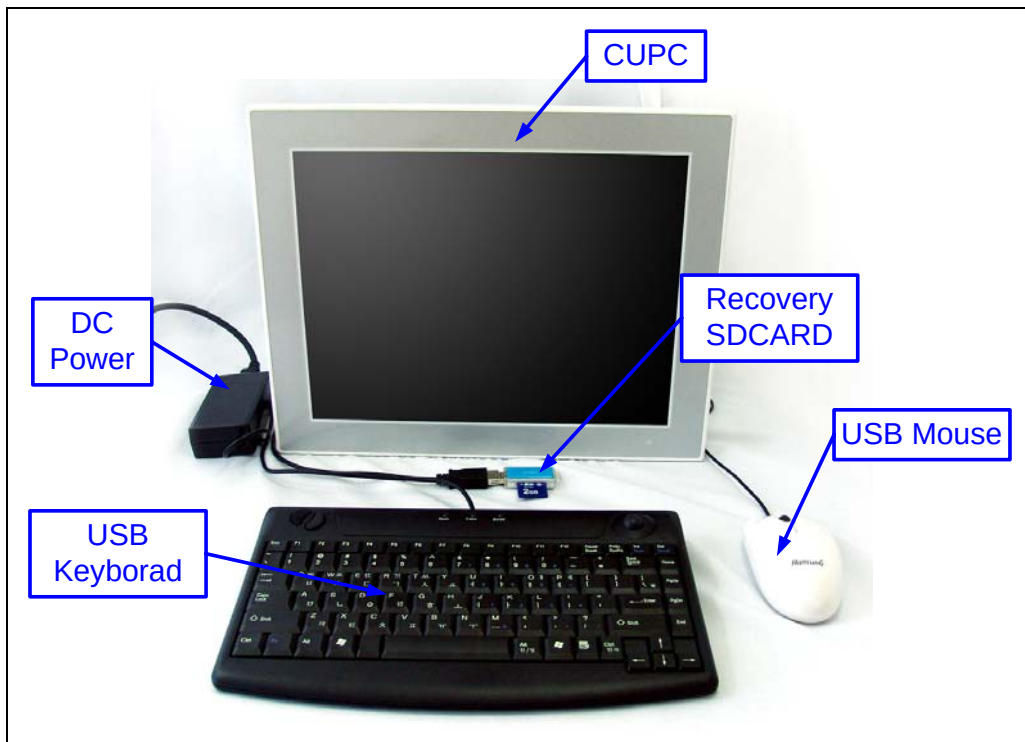
Chapter 7. System Restoration

CUPC provides a system restoration solution using Clonix's WinClon, which is included when you purchase the OS Option Package. You can restore the CUPC to its original state or to any state you may have saved using the backup procedure.

7-1. Getting Ready

In order to perform the restoration procedure, the following is needed.

- CUPC
- Recovery SDCARD
- Keyboard & Mouse
- DC Power(+12V)



[Figure 4] Getting Ready

Please be sure to use the recovery SDCARD with the WinClon logo.

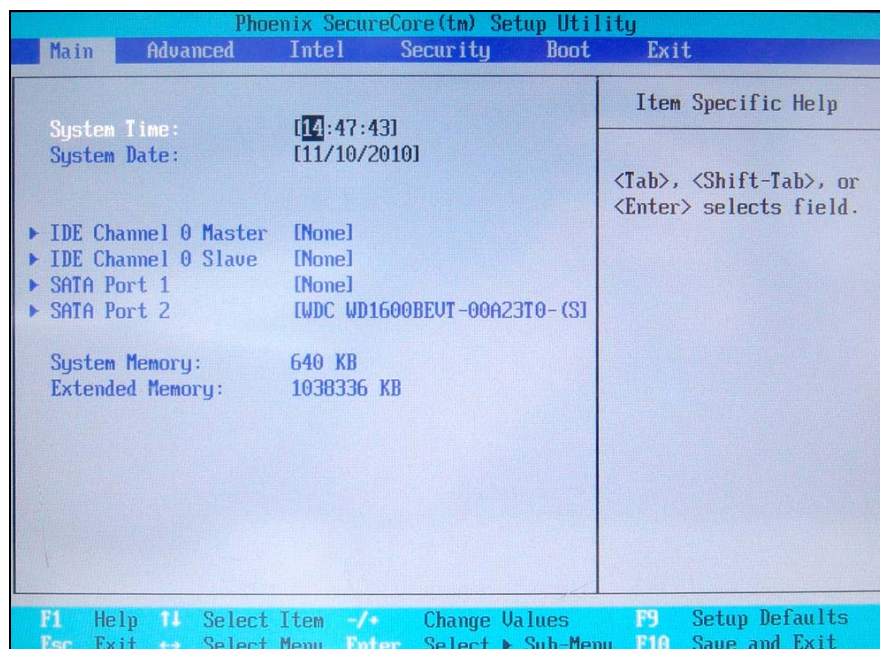


[Figure 5] Recovery SDCARD

7-2. ROM Bios Configuration

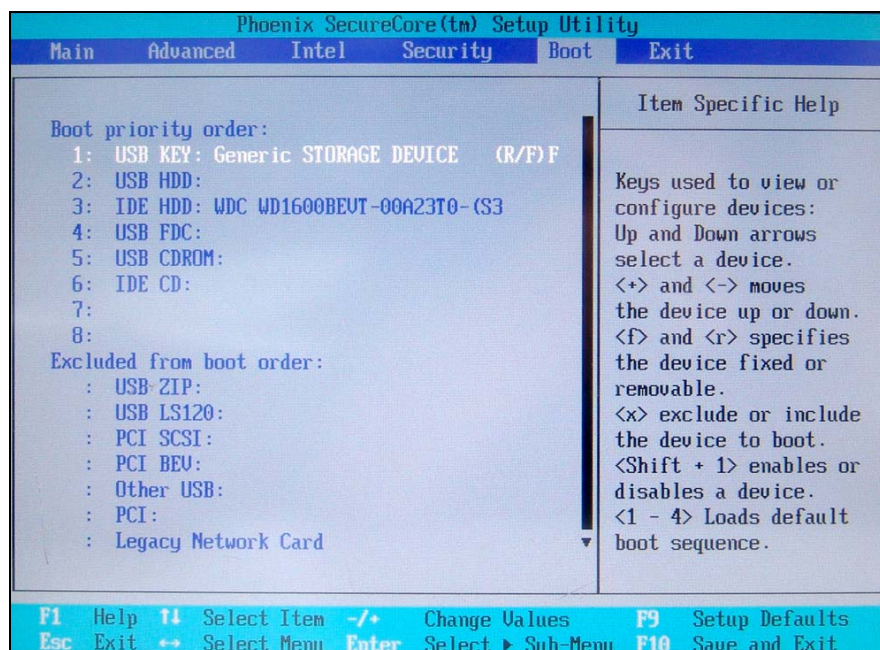
7-2-1. Changing First Boot Device

After turning on the power, if you press the **[F2]** key on the initial screen, the BIOS Setup Utility will open as shown in Figure 6.



[Figure 6] BIOS SETUP Initial Screen

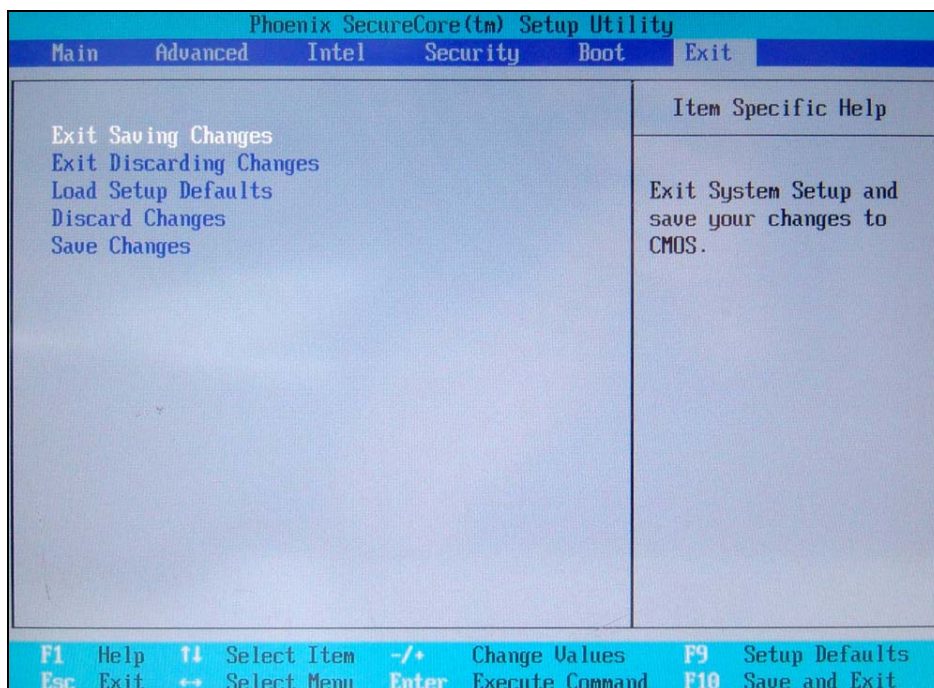
Select the **[Boot]** menu.



[Figure 7] Boot Menu

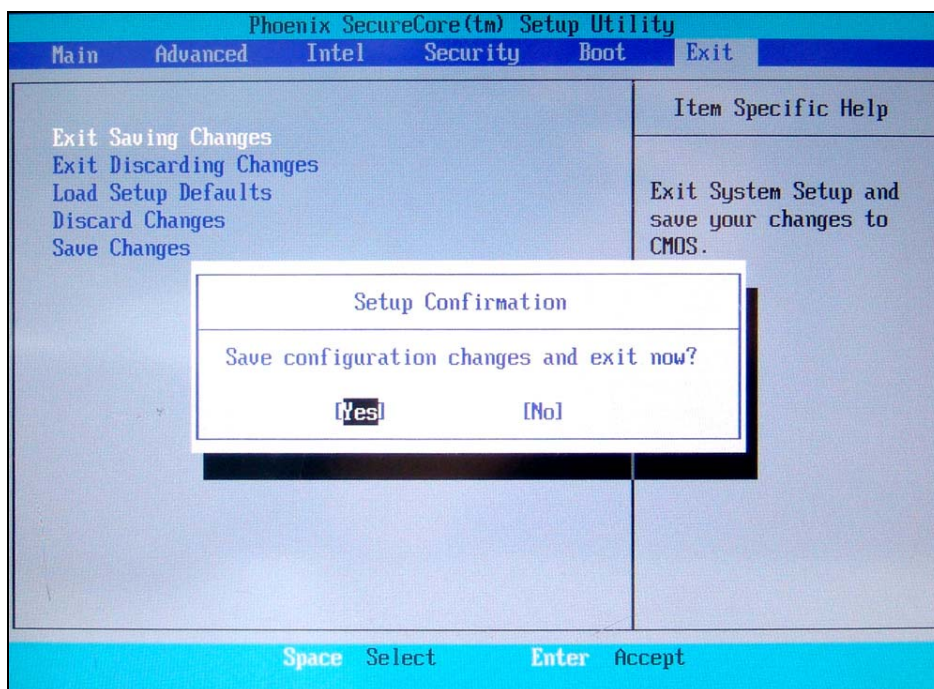
Select the [USB KEY] and move it to the top of the list using [+] key.

Select [Exit Saving Changes] in the [Exit] menu.



[Figure 8] BIOS SETUP Exit Screen

Select [YES] in the [Setup Confirmation] screen.

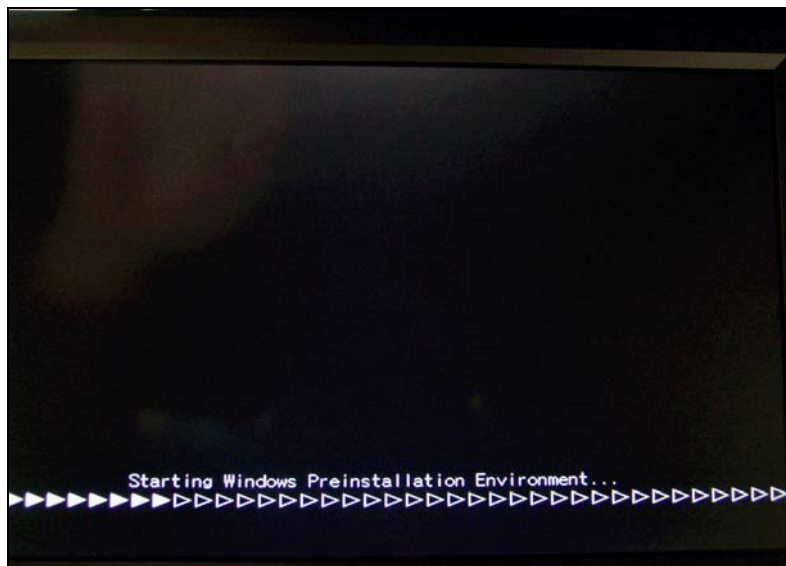


[Figure 9] Setup Exit Confirmation Screen

7-3. Booting with the WinClon SDCARD

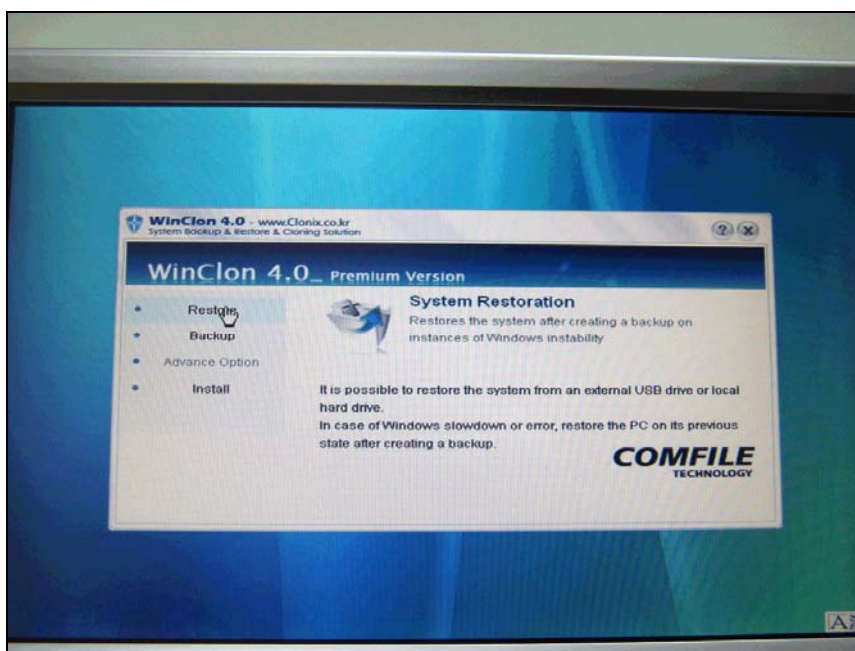
Insert the WinClon Recovery SDCARD and turn on the power.

The System will begin booting into Windows PE as shown in [Figure10].



[Figure 10] WinPE Booting Screen

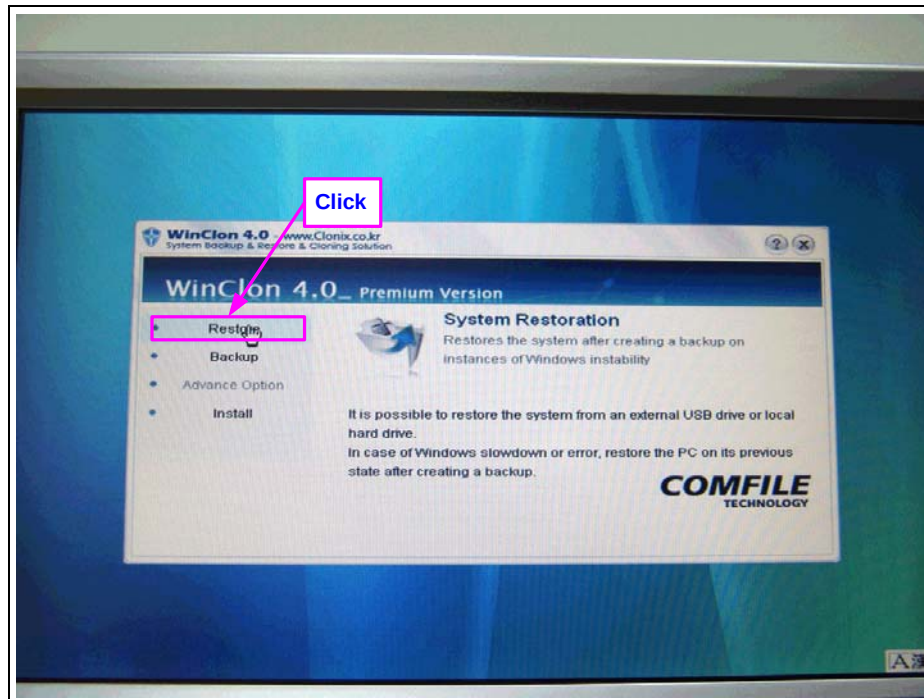
After the system boots into Windows PE, WinClon will be executed as shown in [Figure 11]



[Figure 11] WinClon Initial Screen

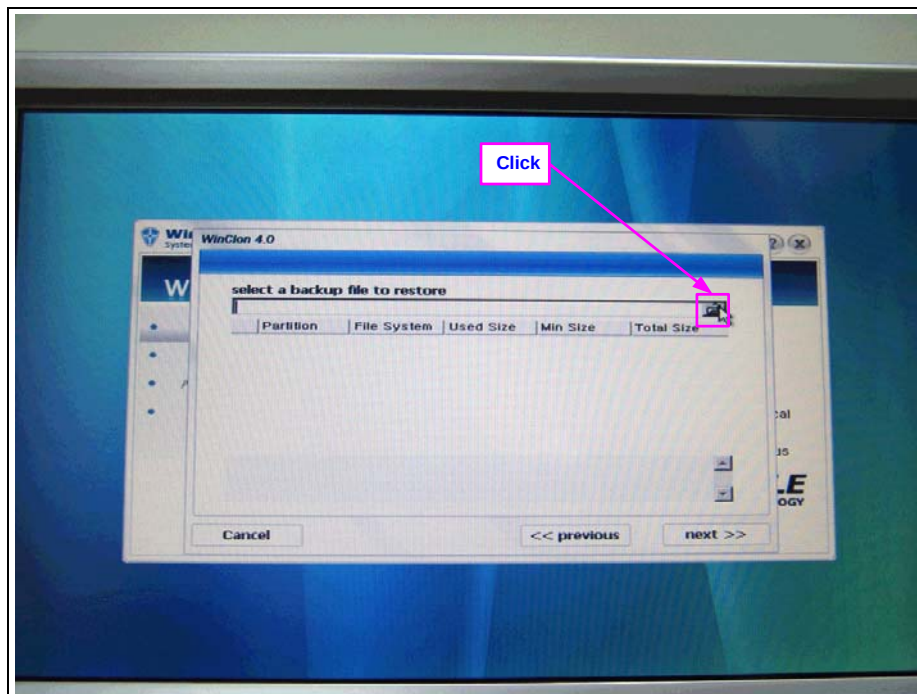
7-4. Restoration

On the initial WinClon screen, click 'Restore'.



[Figure 12] Restoring Menu Selection

Select the restoration image according to the following steps.

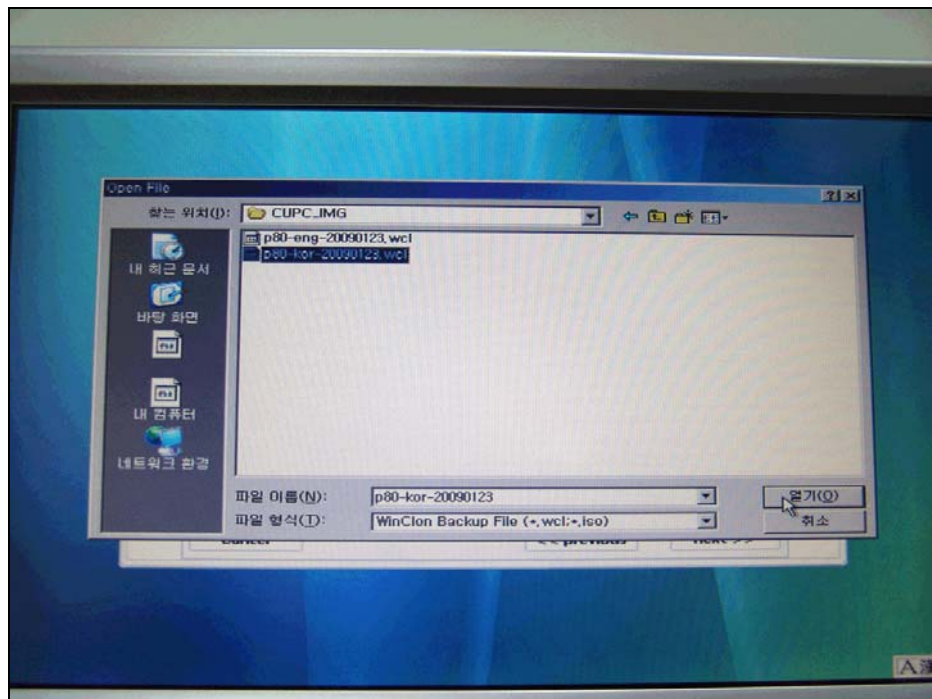


[Figure 13] Selecting Image

Click on the folder icon.



[Figure 14] Exploring image file

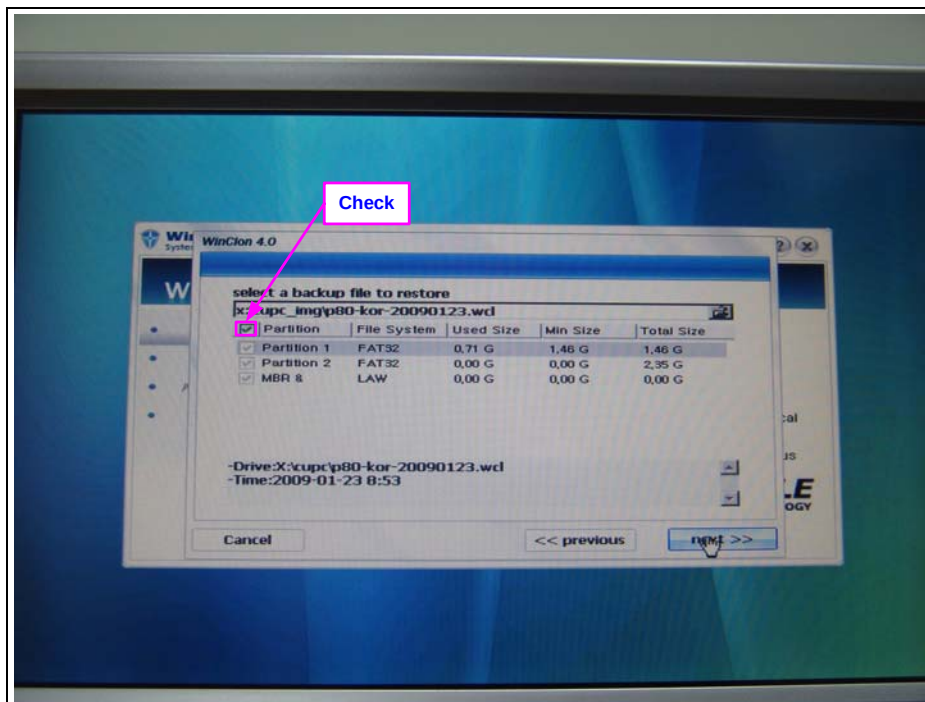


[Figure 15] Select image file

In the SD card you purchased, you will find an initial restoration image named by CUPC model. If you have performed a backup, you may see your own image, too. Select an image from the list.

Select the partition you want to restore.

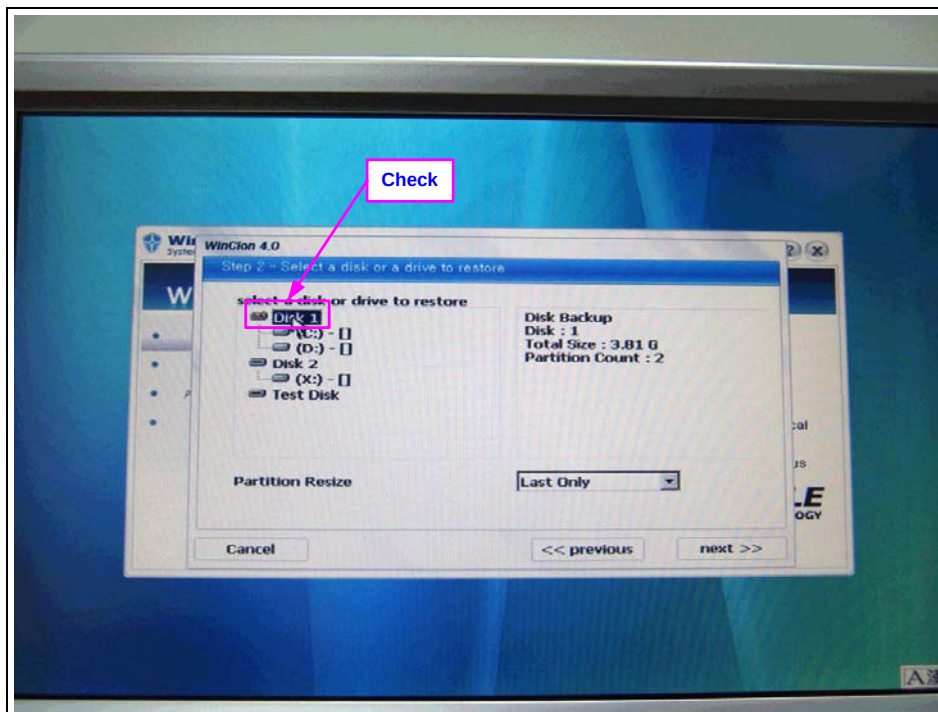
In this example, we will restore the entire disk.



[Figure 16] Selecting the restoring partition

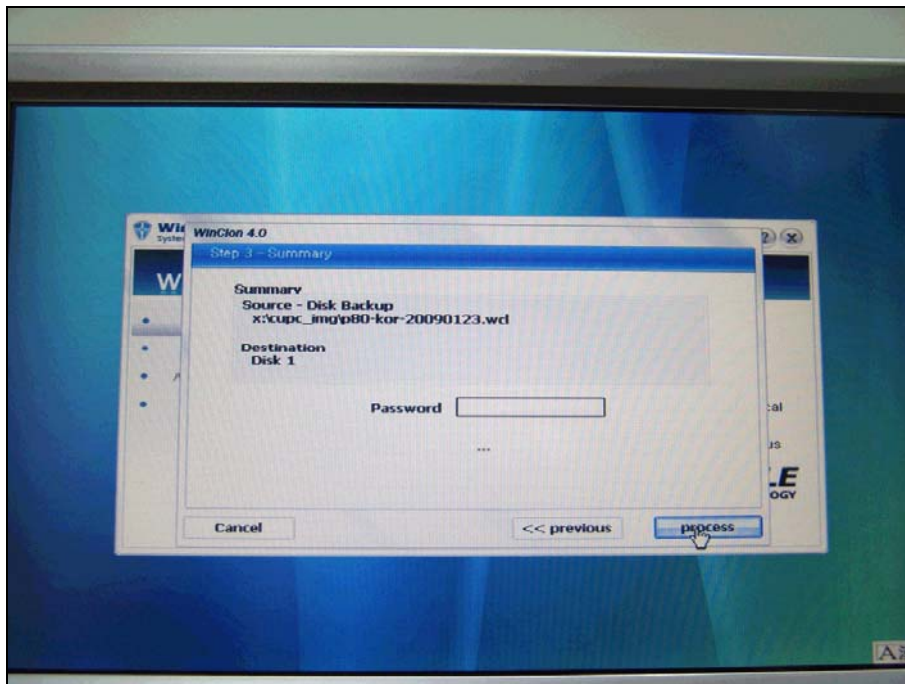
Click the 'Next' button and select the disk to restore.

(Caution: Make sure that you confirm the disk information and check if it says 'Hard Disk')



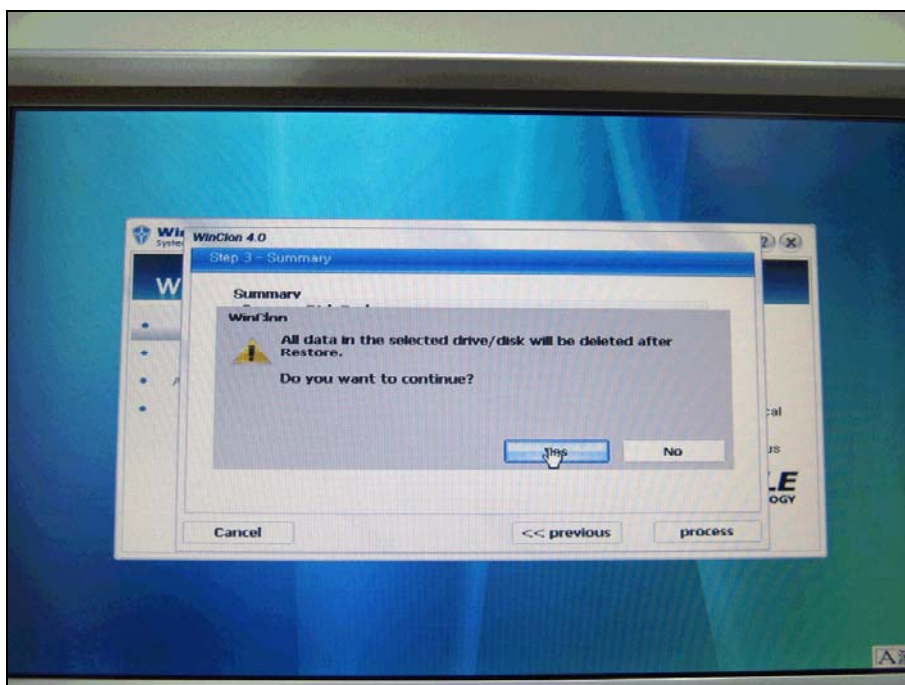
[Figure 17] Selecting the restoring disk

Click 'Next' .



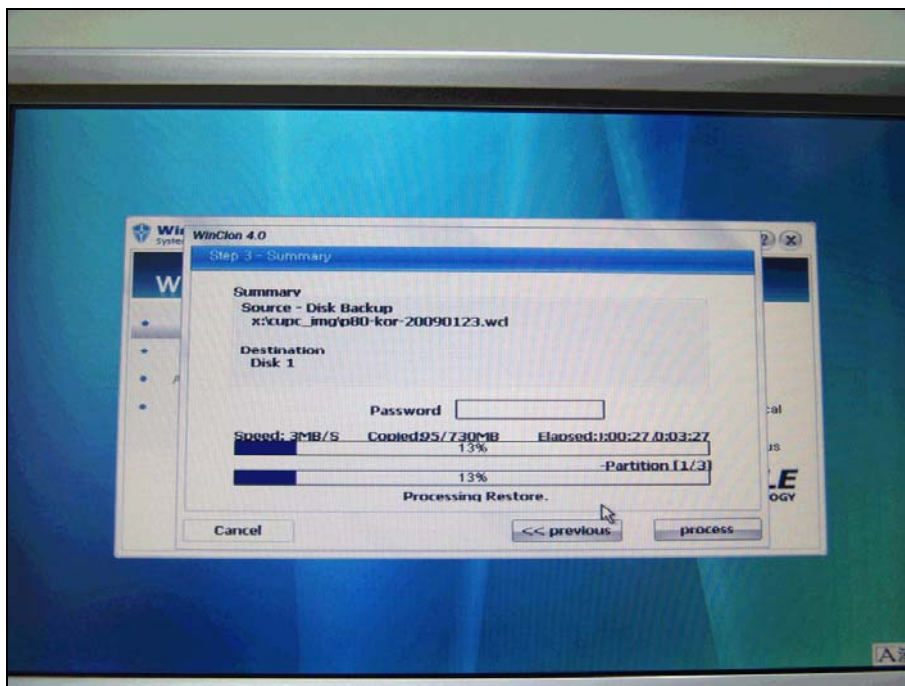
[Figure 18] Restoring Summary Screen

Click 'Process' .



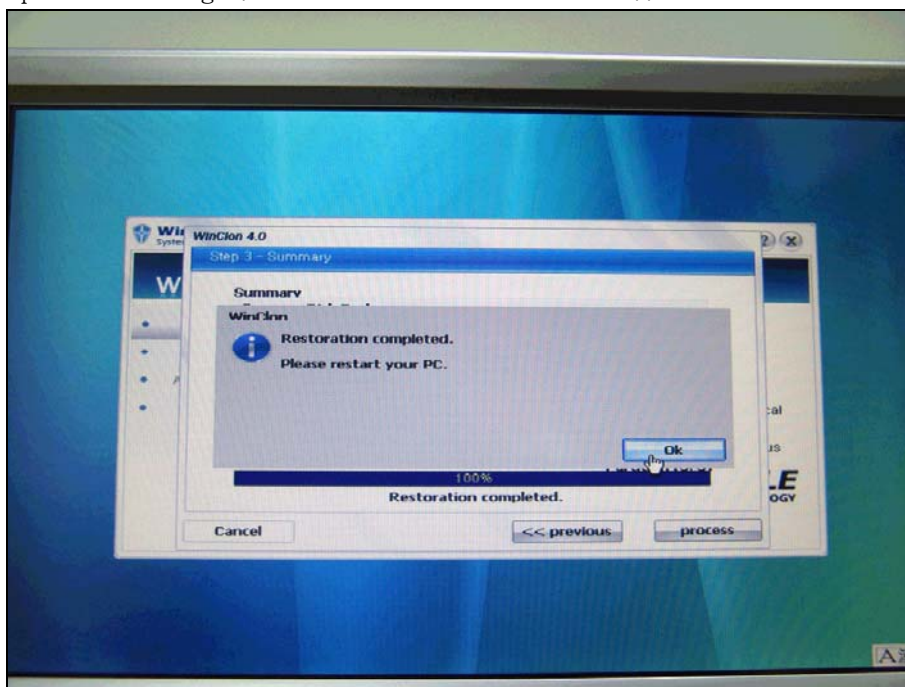
[Figure 19] Continue Screen

Click 'Yes' to confirm.



[Figure 20] Restoration Progress Screen

The restoration process will begin. It will take about 4~5 minutes..

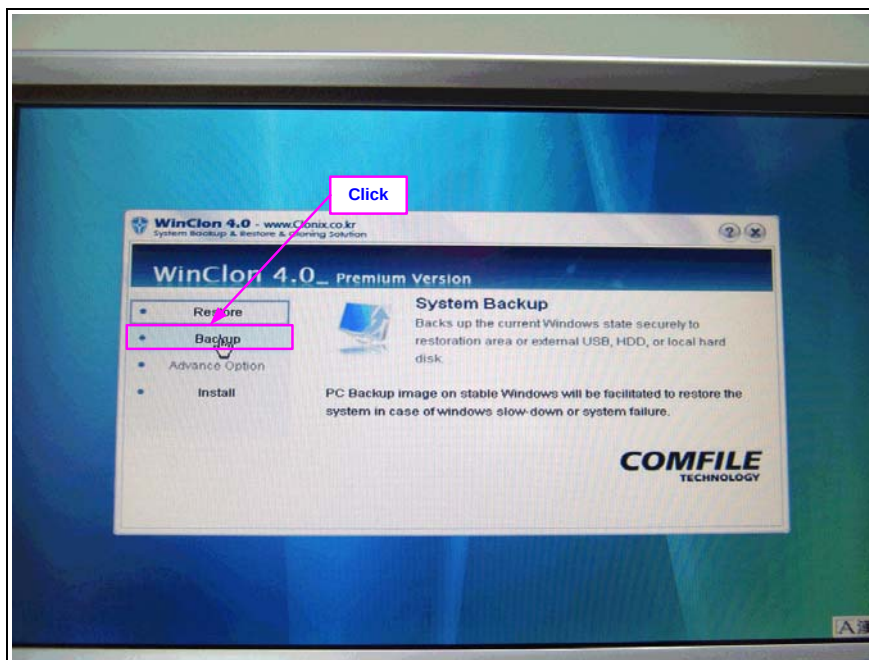


[Figure 21] Restoration complete

After the restoration is complete, refer to the chapter 7-2-1 to change the CUPC First Boot Device to **IDE HDD** and reboot.

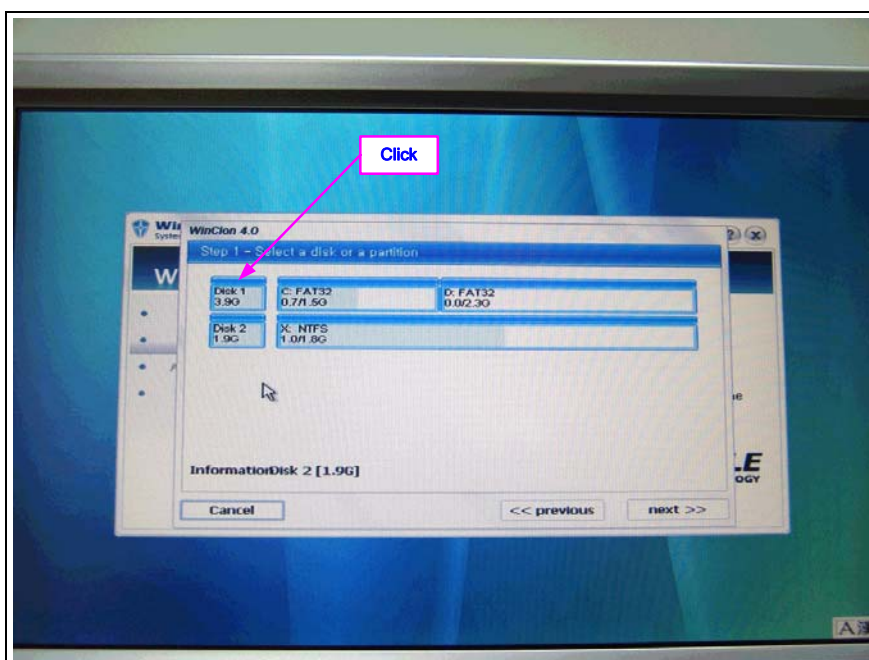
7-5. Backing Up

You can also use the WinClon utility to backup the system after customizing it to the state you want. This will allow you to restore to your custom state rather than the original state. On the initial WinClon screen, click 'Backup'.



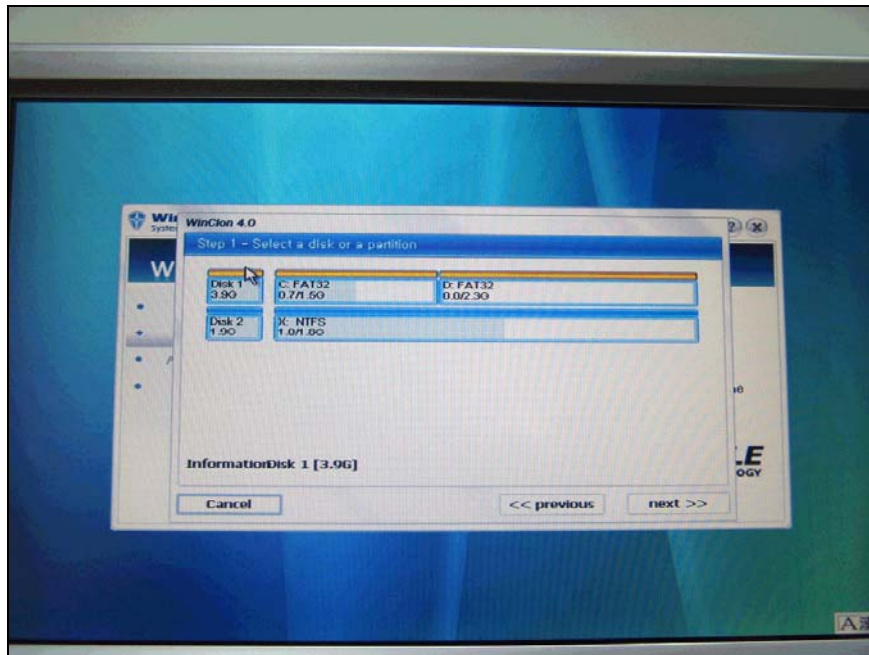
[Figure 22] Selecting Backup Menu

Select the disk or partition to back up. In this example we will backup the entire disk.
(Caution: For CUPC-P200 series, Disk2 is the HDD. Check the disk size before selecting.)



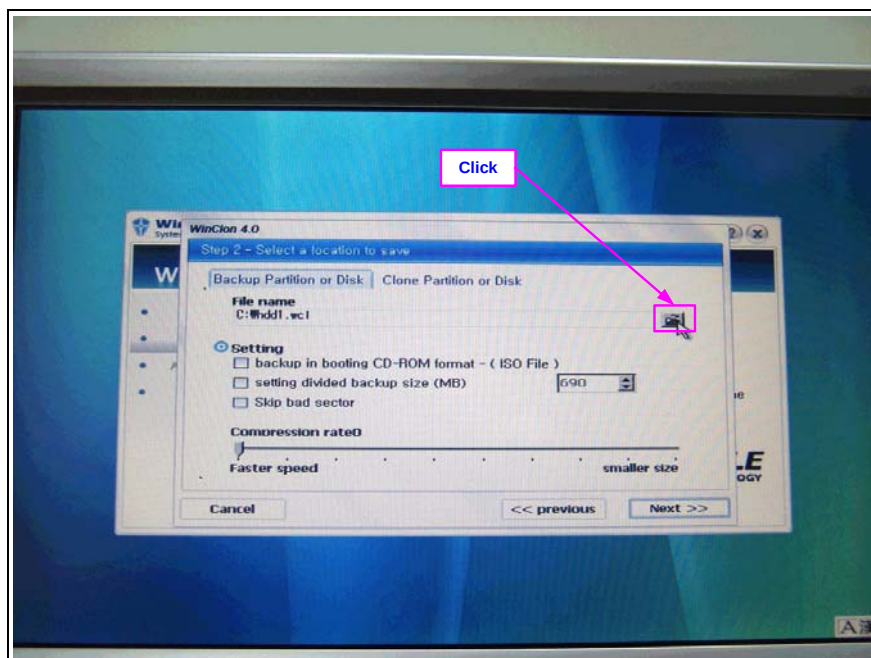
[Figure 23] Selecting the partition and disk to back up

Confirm the selected partition and/or disk.



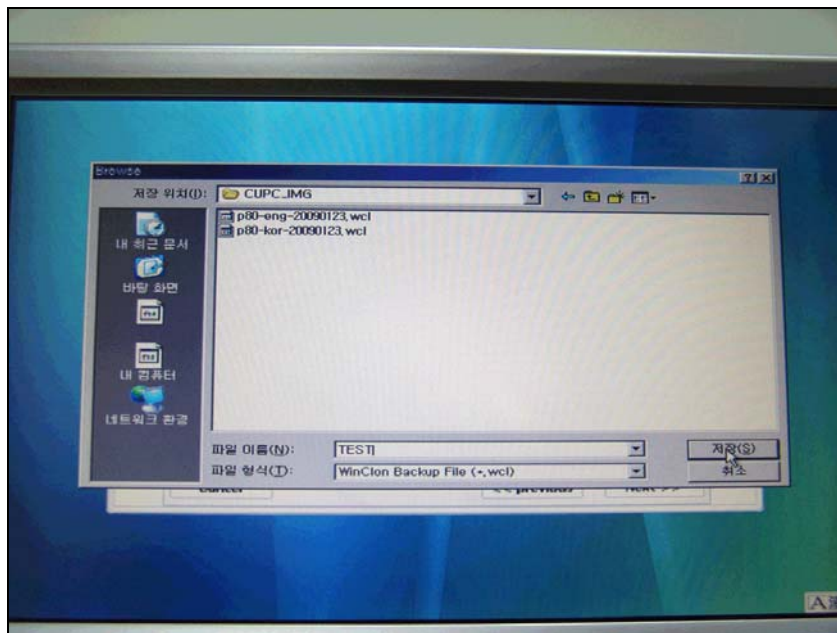
[Figure 24] Confirm the partition and disk to back up

You are now ready to save the disk to an image file.
Click the folder icon to locate the image file for saving.



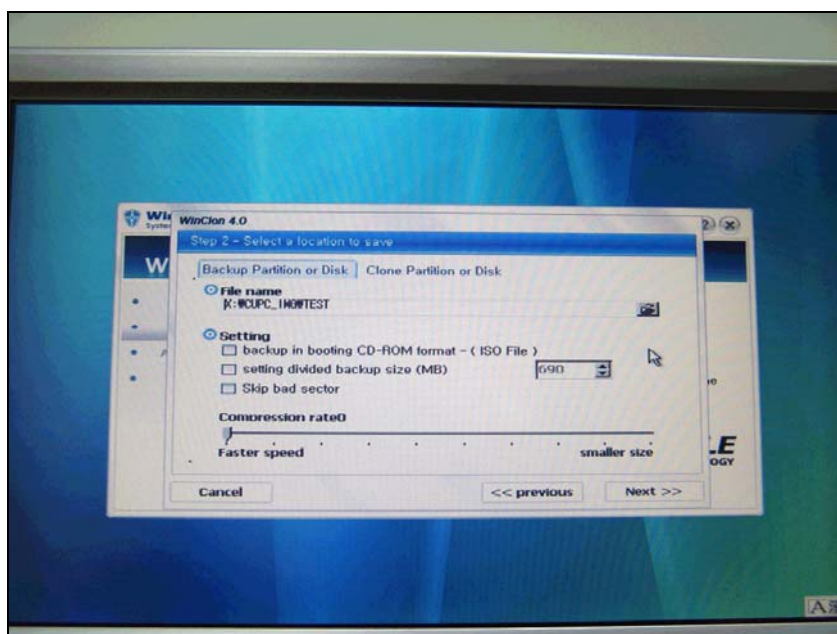
[Figure 25] Selecting folder icon

Select the folder and enter a desired file name. Then click the 'Save' button.



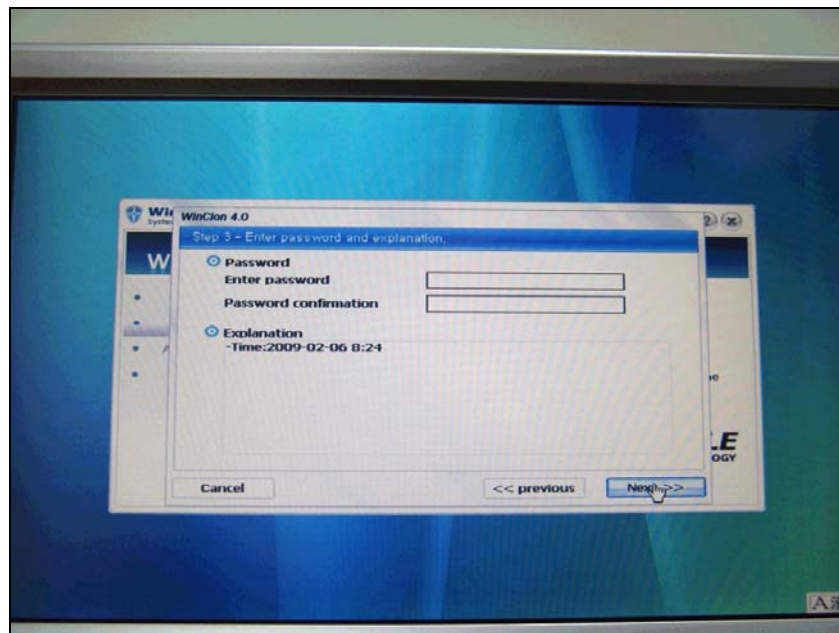
[Figure 26] Input the image file name

Click 'Next' .



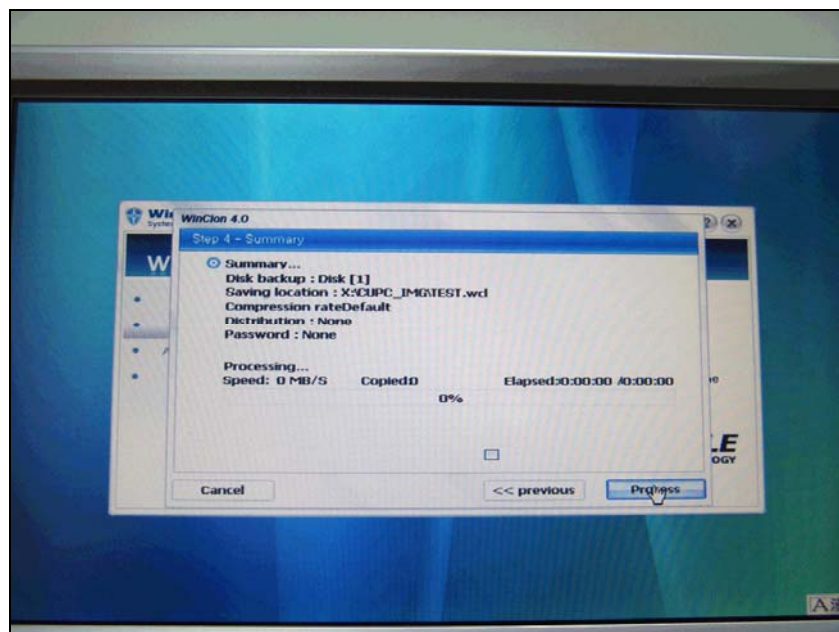
[Figure 27] Image file determined

If you want to protect your image, enter your password and click 'Next' .



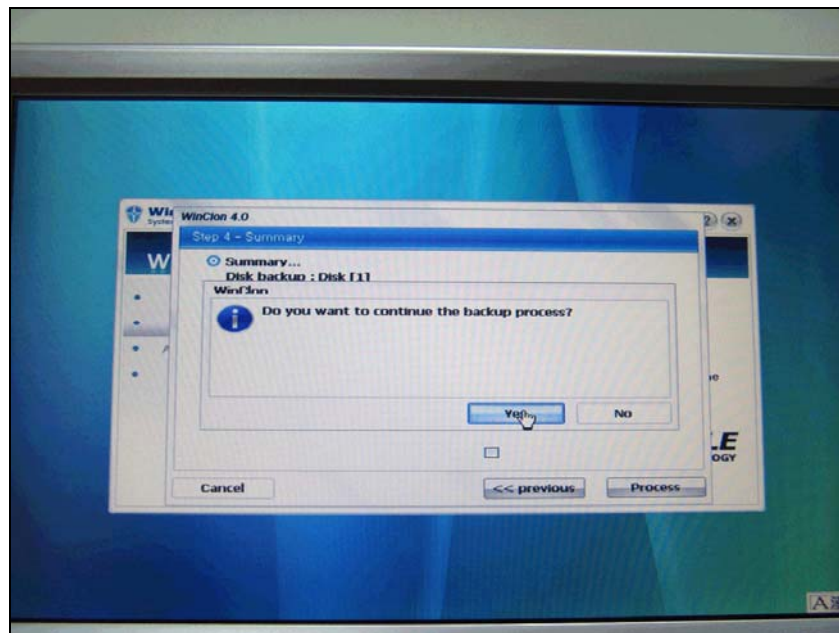
[Figure 28] Password set

Click 'Process' .



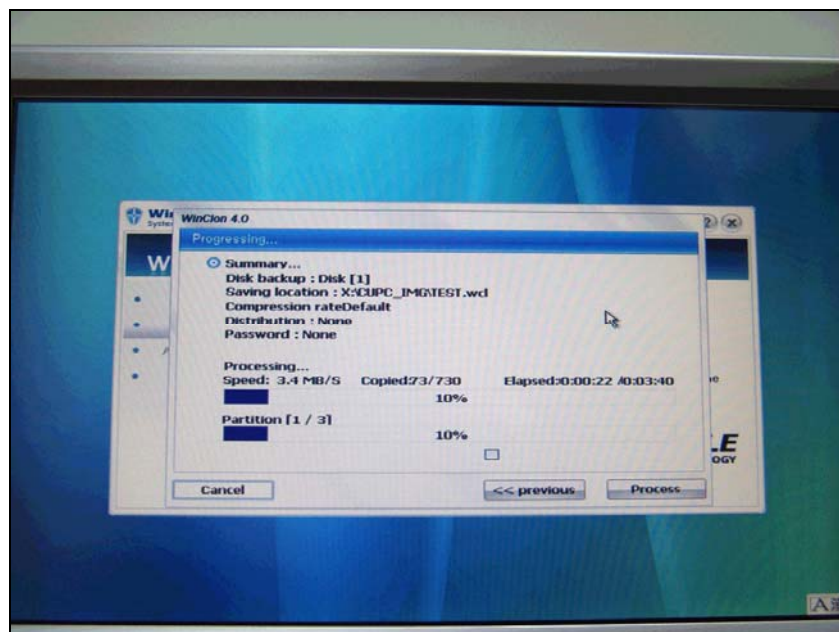
[Figure 29] Backup Summary Screen

Click 'Yes' to confirm.



[Figure 30] Backup Start Confirmation Screen

The backup process will begin. It will take about 5~6 minutes.



[Figure 31] Backup Progress Screen

When the backup process is finished WinClon will display the newly created image file. To finish, click 'OK' .



[Figure 32] Backup Complete

MEMO