Windows Setup Guide for ST-B10
Windows XP / WEPOS / POSReady 2009

TOSHIBA TEC CORPORATION

First Edition: February 5, 2010

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TOSHIBA TEC CORPORATION   EAA-03033

1. Overview

This document describes the procedures and cautions for installing Windows operating system and the drivers on the ST-B10.

The outline of procedures to install Windows operating system and the drivers on the ST-B10 is as follows.

Installation Procedure of Windows operating system and the drivers:
- Installation for Operating System
- Installation for VIA Chipset Software
- Installation for VIA Graphic Accelerator Driver
- Installation for VIA Network Driver
- Installation for Realtek Audio Driver
- Setup for Display
- Installation and Setup for Elo Touch Panel Driver
- Installation for i-Button Driver

2. Installation for Operating System

2.1. Installation for Windows XP Operating System

Follow the instructions of the Windows installer to complete the installation.

2.2. Installation for WEPOS Operating System

Follow the instructions of the Windows installer until "Optional Software Component Settings" window appears. When the window appears, select the required check box, and click on the "Next" button.

Note:

You could not add unselected components after finishing installation.

☐ Additional Driver Support
☐ Internet Information Services (IIS)
☐ Language Support
☐ Local Management Support
☐ Management Client Support
   ☐ Window Media Player 9.0
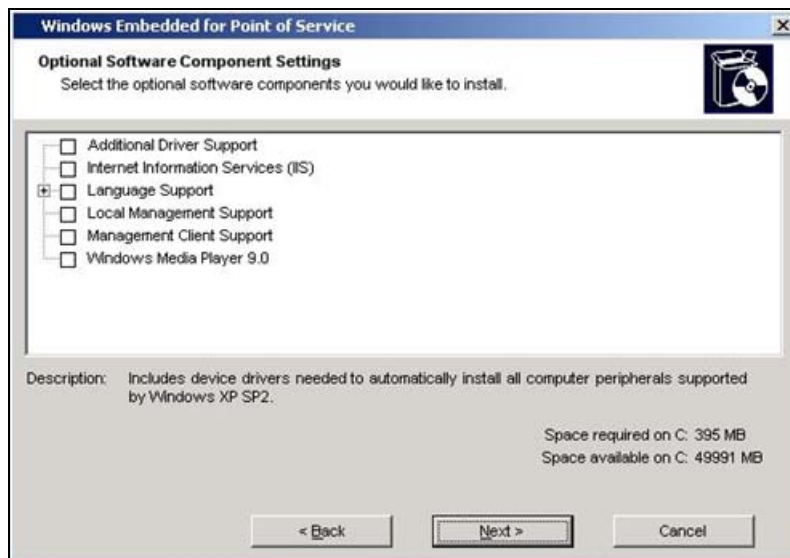
Follow the instructions of the Windows installer to complete the installation. ST-B10 reboots after finishing installation.

If the Operating System is installed successfully, the "User name and Password" window will appear.

2.3. Installation for POSReady 2009 Operating System

2.3.1. Installation for Operating System

Follow the instructions of the Windows installer until "Storage Drivers" window appears. Please select "No Additional Storage Drivers are Required" radio button and click on the "Next" button.
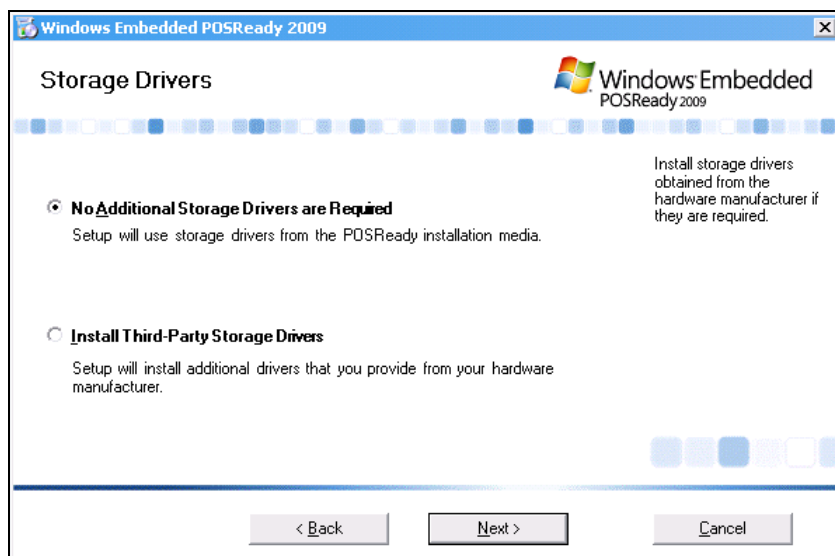
"Installation Type" window appears. Please select "Custom" radio button and click on the "Next" button.
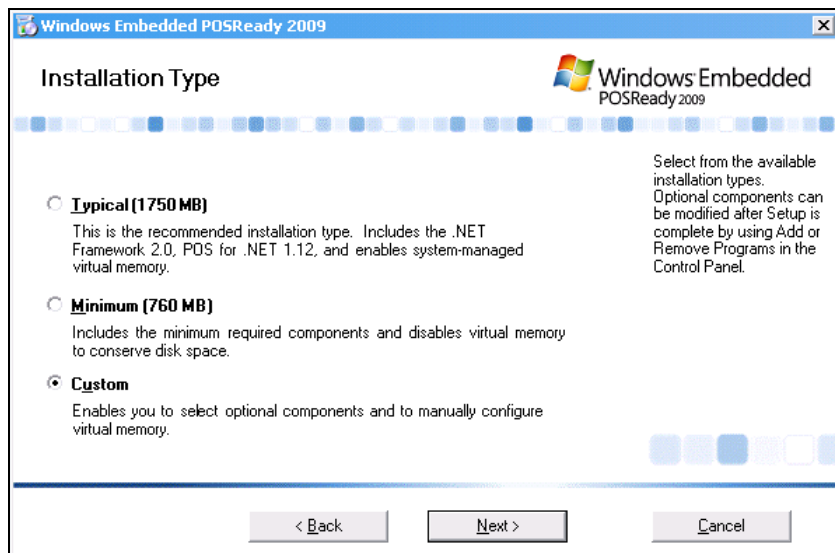
Please select necessary Optional Components and "Additional Drivers" check box.

Note:

If you do not install "Additional Drivers" component, you may need "Windows Embedded POSReady 2009 Installation CD" when installing some kind of driver after installation for Operating System.

Optional components can be modified after finishing the installation by using Add or Remove Programs in the Control Panel with reference to Section **"2.3.2 Addition for "Additional Drivers" Component"**.
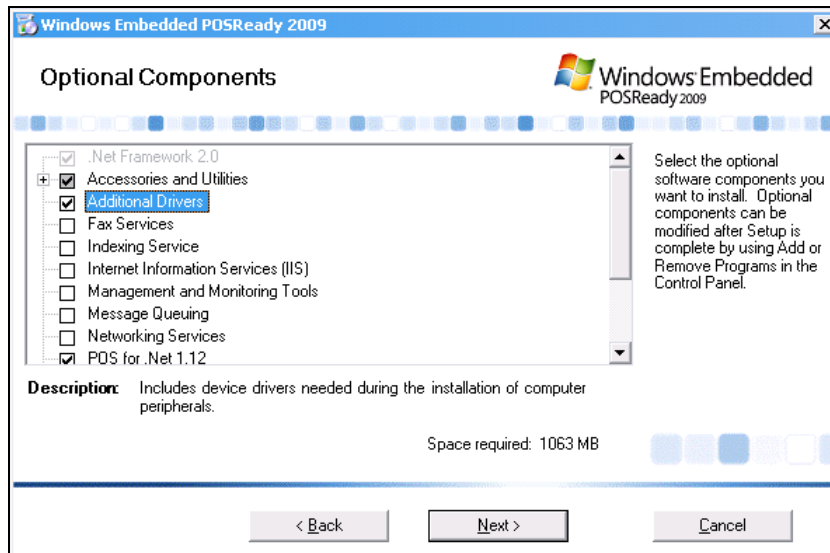
Follow the instructions of the Windows installer to complete the installation.

2.3.2.   Addition for "Additional Drivers" Component

When you did not install "Additional Drivers" during installation for Operating System, install the component to refer as follow.

Open "Add or Remove Programs" from "Control Panel". Then, click on the "Add/Remove Windows Components" button.
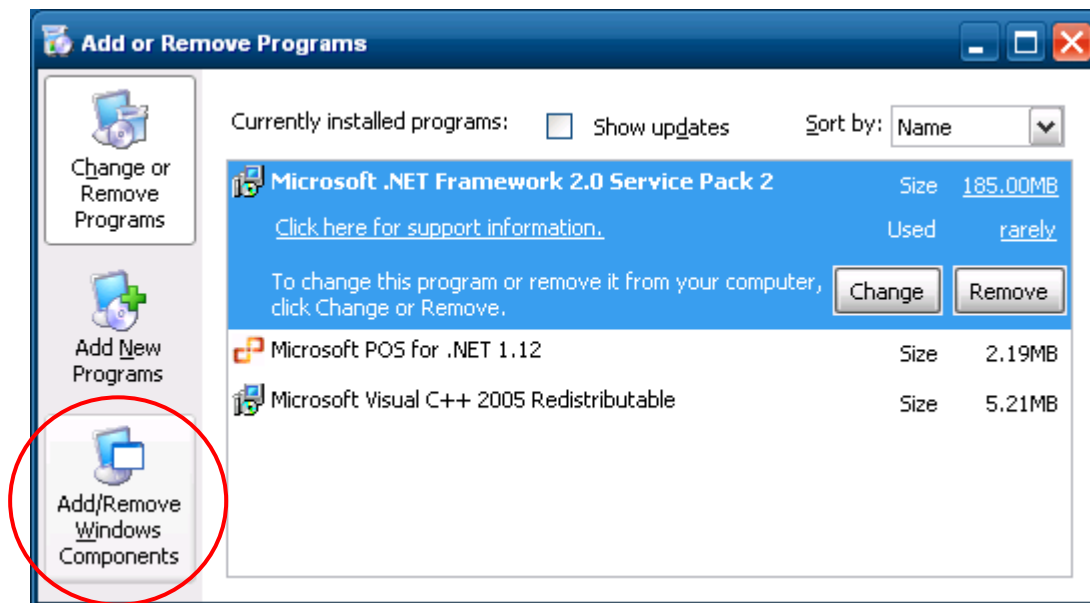
Check "Additional Drivers" from "Components:" check box. Click on the "Next" button.
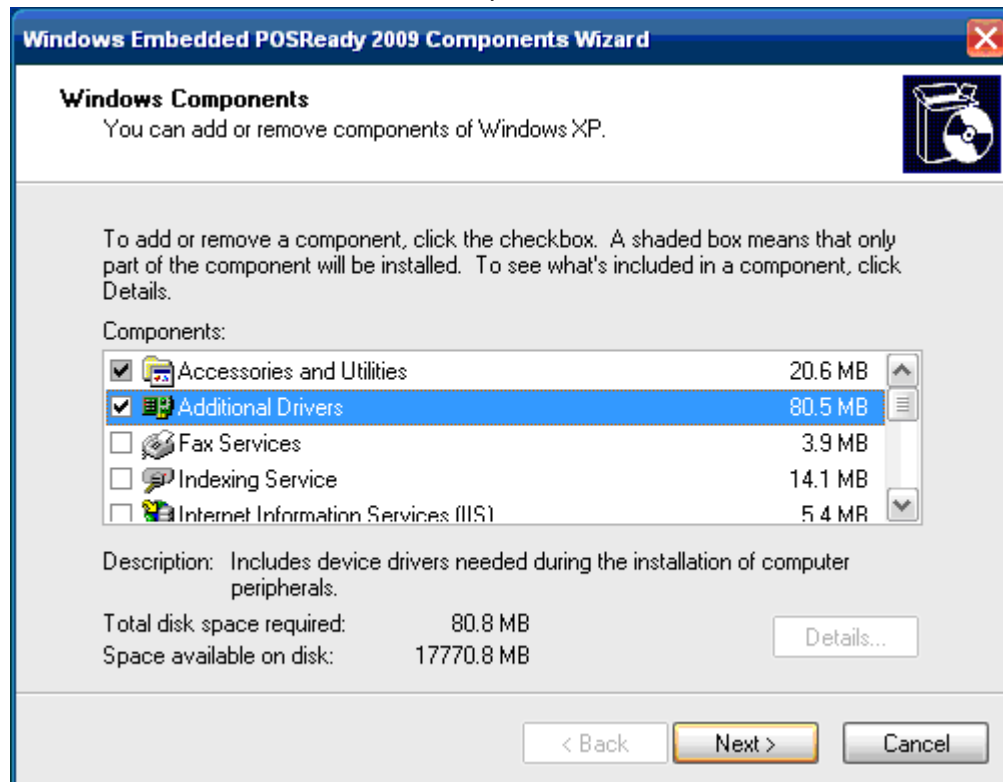
During installation for the component, you need "Windows Embedded POSReady 2009 Installation CD". Insert "POSReady installation CD", and click on the "OK" button.
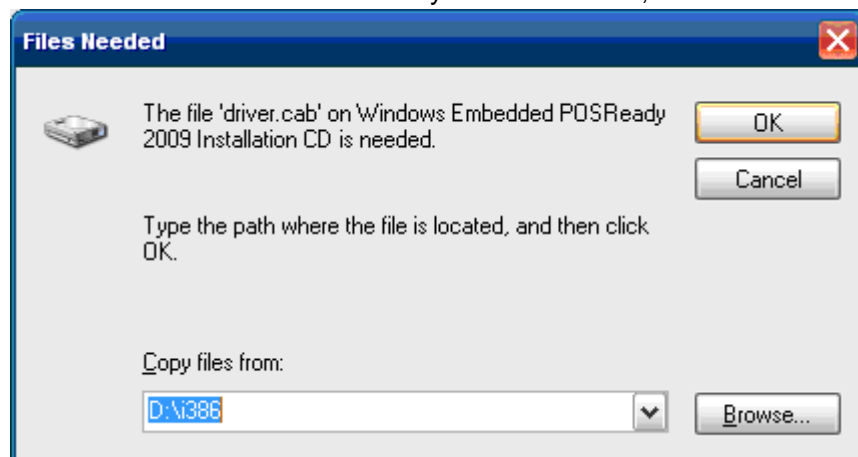
ST-B10 does not reboot automatically after finishing installation. Please reboot ST-B10 manually.

3. Installation for Vender Drivers

3.1. Installation for VIA Chipset Software

Run "setup.exe" in the "ST-B10Win¥VIA¥Chipset" folder in the Driver kit CD. The following window appears. Click on the "Next" button.

The "License Agreement" window appears. Confirm the contents. If you agree, check the "I Agree" radio button and click on the "Next" button.
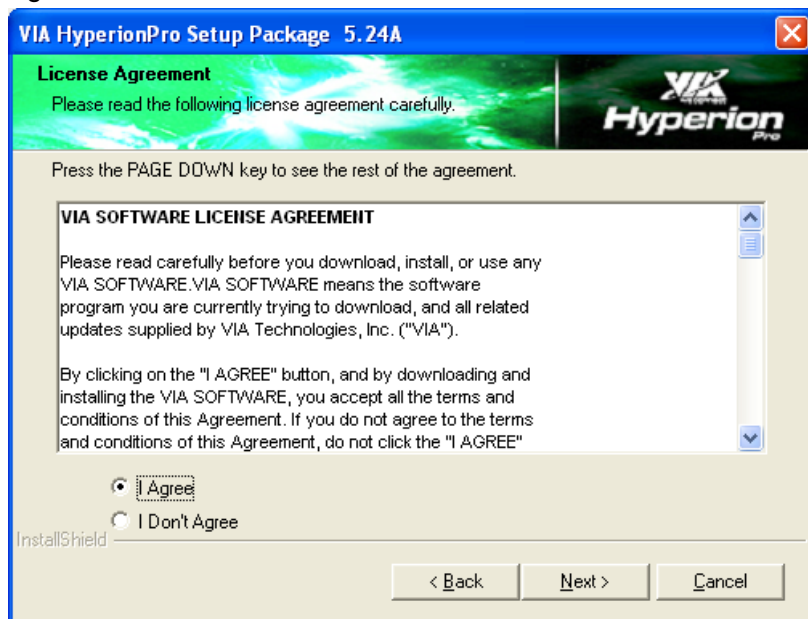
The "Install List:" window appears. Click on the "Next" button.
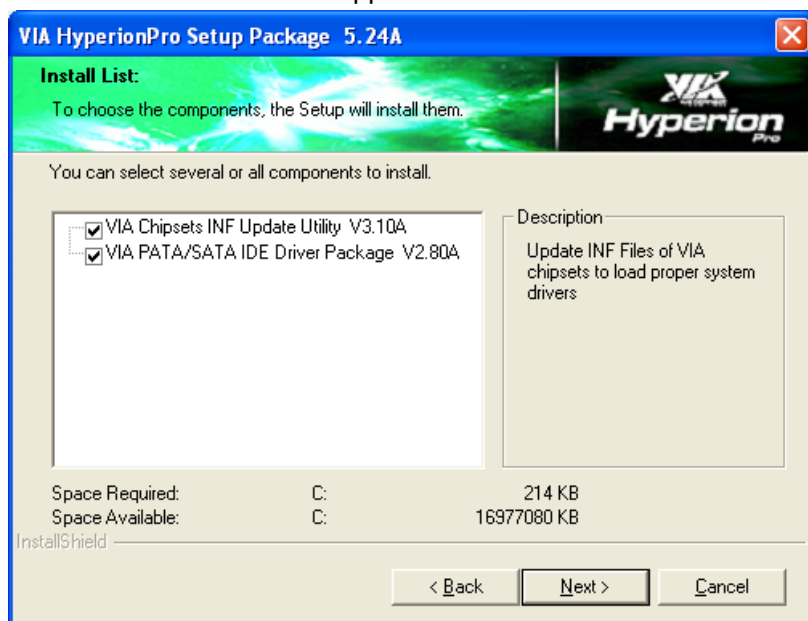
The "Installing Components List:" window appears. Click on the "Next" button.

The "Installing Status:" window appears. Click on the "Next" button.
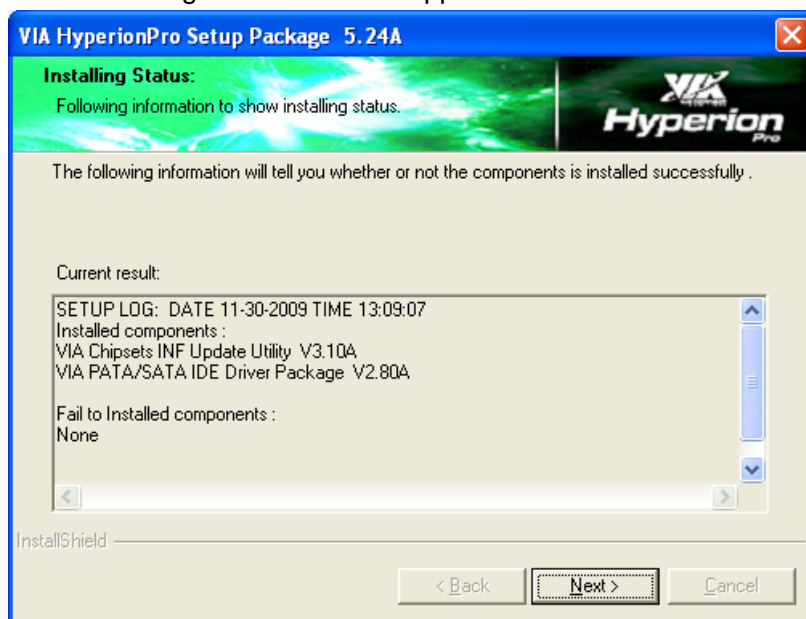
When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart my computer now" radio button, then click on the "Finish" button to reboot the ST-B10.

3.2. Installation for VIA Graphic Accelerator Driver

Run "setup.exe" in the "ST-B10Win¥VIA¥Graphic" folder in the Driver kit CD, and starts the installation.

When the installation is completed successfully, the following window appears. Click on the "Finish" button. Please reboot the ST-B10.

Open Device Manager to confirm the graphic driver has been installed. Make sure that "VIA/S3G UniChrome Pro IGP" is registered under the "Display adapters" icon.
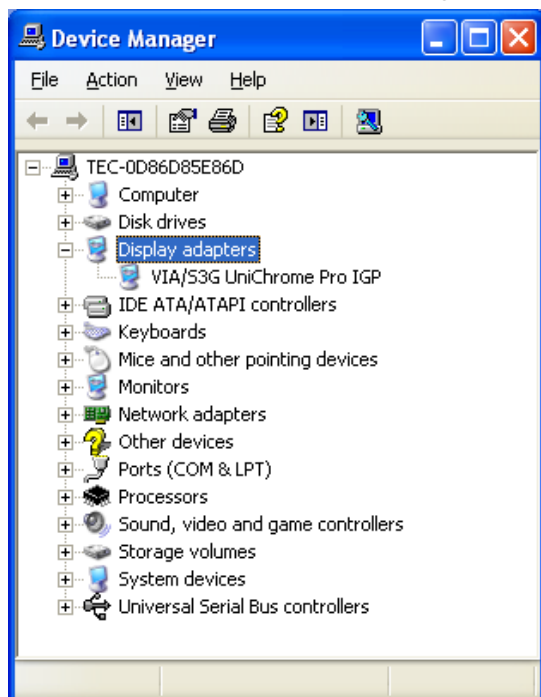
3.3. Installation for VIA Network Driver

Run "WinSetup.exe" in the "ST-B10Win¥VIA¥LAN" folder in the Driver kit CD, and starts the installation. When the installation is completed successfully, the following window appears. Click on the "OK" button. Please reboot the ST-B10.
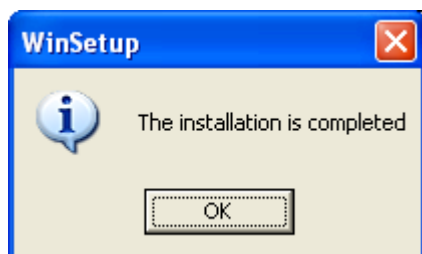
Open Device Manager to confirm the Network driver has been installed. Make sure that "VIA RhineⅡ Fast Ethernet Adapter" is registered under the "Network adapters" icon.
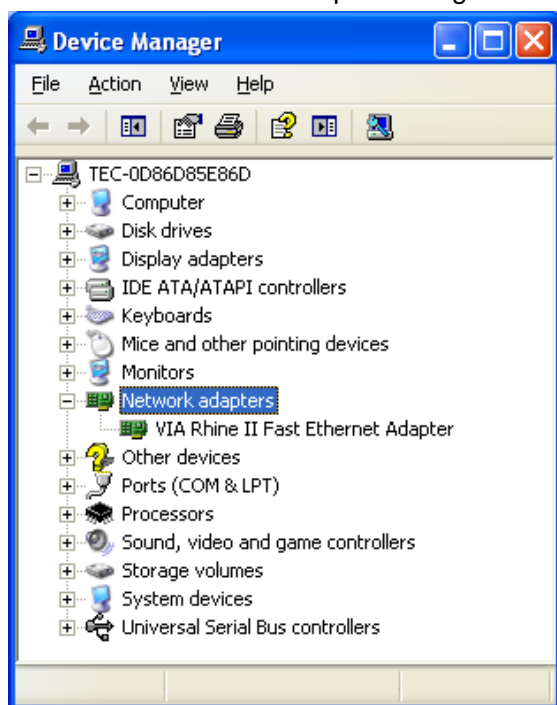
3.4. Installation for Realtek Audio Driver

Run "Setup.exe" in the "ST-B10Win¥VIA¥Audio" folder in the Driver kit CD. The following window appears. Click on the "Yes" button.

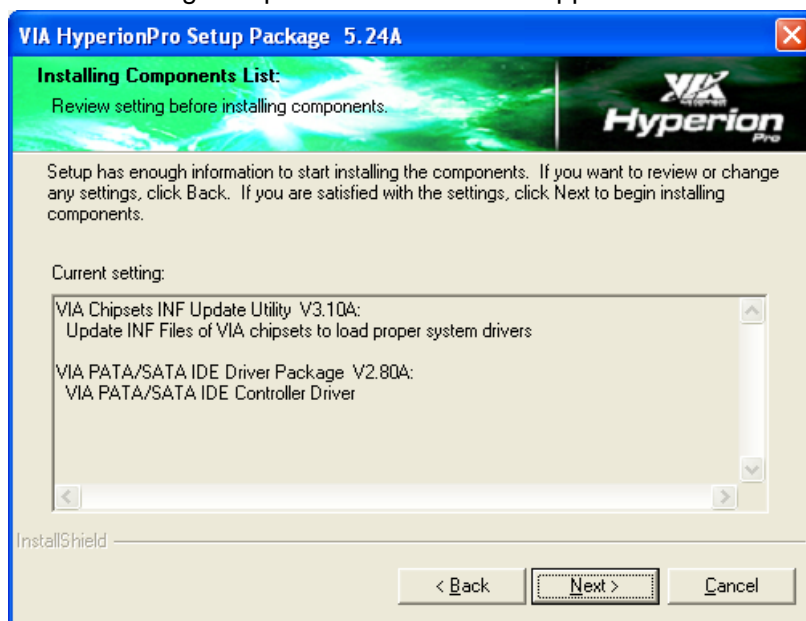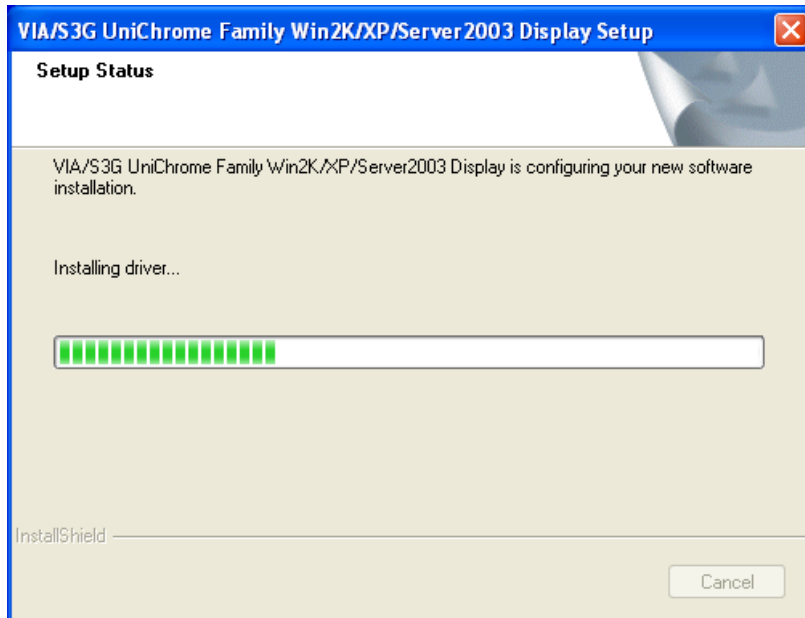When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart my computer now." radio button, then click on the "OK" button to reboot the ST-B10.
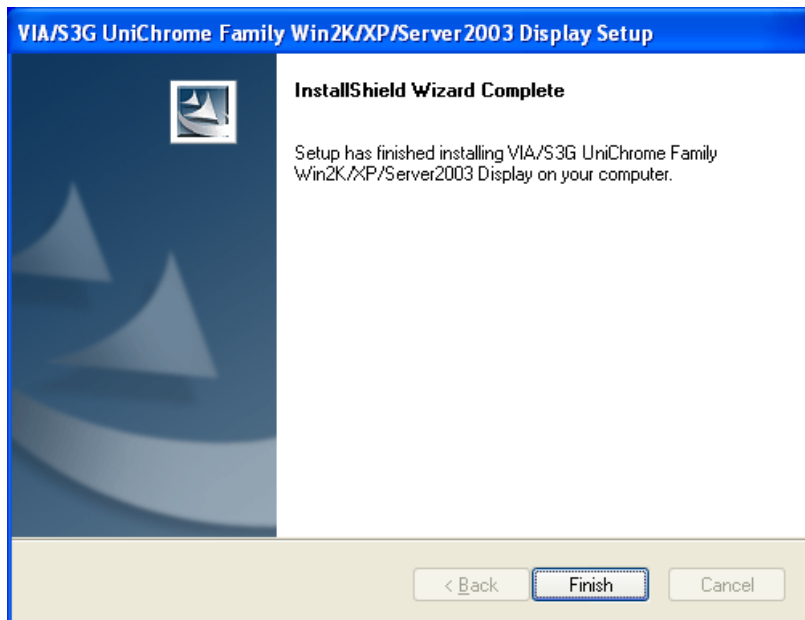
Open Device Manager to confirm the Audio driver has been installed. Make sure that "Realtek High Definition Audio" is registered under the "Sound, video and game controllers" icon.
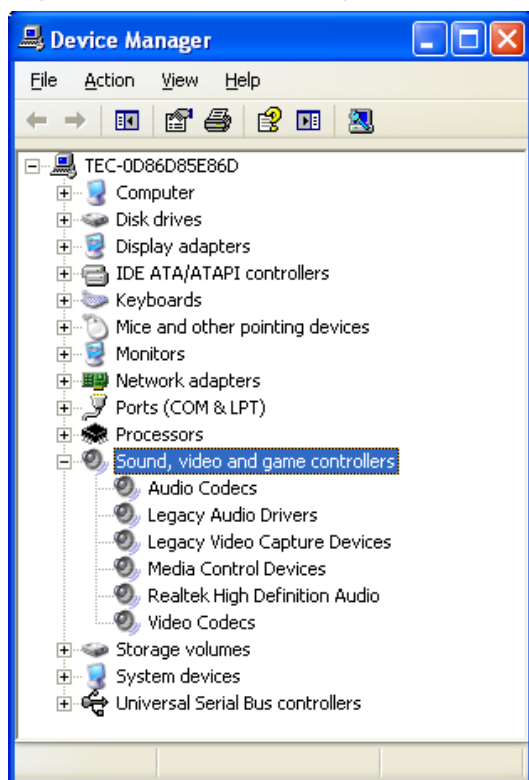
4. Setup for Display

ST-B10 supports the display below.

- TFTST-A20 (LVDS – Elo Touch Panel)
- TFTST-A20 (VGA – Elo Touch Panel)
- TFTST-B20 (VGA – Elo Touch Panel)

Note:

    If you use the display made by TVS, refer to Section **"7.1.3 Case to use the TVS Display"**.

    In case of using touch panel, please calibrate for touch panel with reference to Section **"5.4 Calibration for Touch Panel"** whenever change the resolution of the display.

    In case of using stand-alone display, selectable resolution of the display is the table as follow.

Official Name of Display	Display Size	Display Resolution
TFTST-A20 (LVDS – Elo Touch Panel)	12-inch	800×600
	15-inch	800×600
		1024×768
TFTST-A20 (VGA – Elo Touch Panel)	12-inch	800×600
	15-inch	800×600
		1024×768
TFTST-B20 (VGA – Elo Touch Panel)	12-inch	800×600
	15-inch	800×600
		1024×768

As notice, there is the limitation to use dual display function, please refer to the list as follow and please use it carefully.

Limitation of dual display function

Two displays shows the same image (Clone mode)

Display	Resolution	TFTST-A20 VGA 12-inch 800×600	TFTST-A20 VGA 15-inch 800×600	TFTST-A20 VGA 15-inch 1024×768	TFTST-B20 VGA 12-inch 800×600	TFTST-B20 VGA 15-inch 800×600	TFTST-B20 VGA 15-inch 1024×768
TFTST-A20 LVDS 12-inch	800×600	○	○		○	○	
TFTST-A20 LVDS 15-inch	800×600	△	○		△	○	
	1024×768			○			○

Two displays shows the different image (Extended Desktop mode)

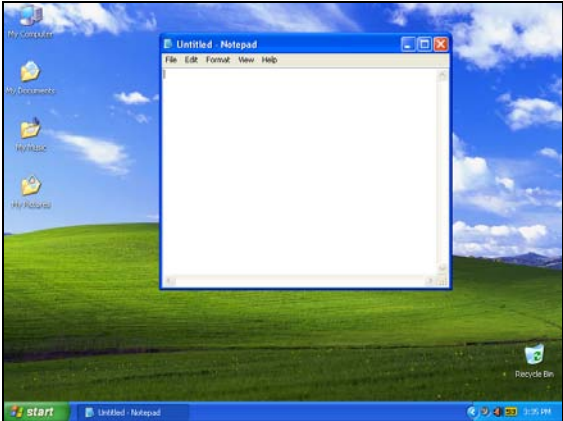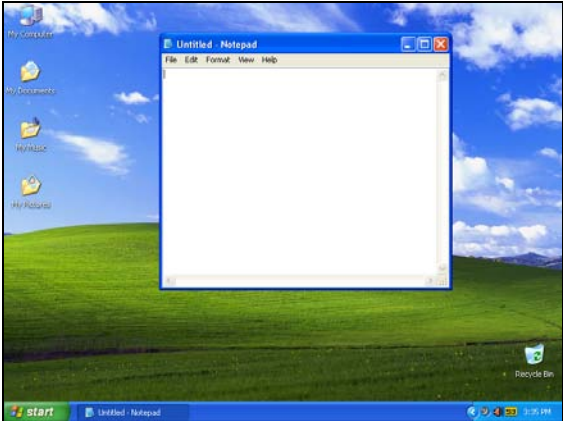| Display	Resolution	TFTST-A20 VGA 12inch 800×600	TFTST-A20 VGA 15inch 800×600	TFTST-A20 VGA 15inch 1024×768	TFTST-B20 VGA 12inch 800×600	TFTST-B20 VGA 15inch 800×600	TFTST-B20 VGA 15inch 1024×768
TFTST-A20 LVDS 12inch	800×600	○	○	○	○	○	○
TFTST-A20 LVDS 15inch	800×600	△	○	○	△	○	○
	1024×768	△	○	○	△	○	○

In Limitation of display function, ○ or △ stands for as follow.

○ : You can use dual display.
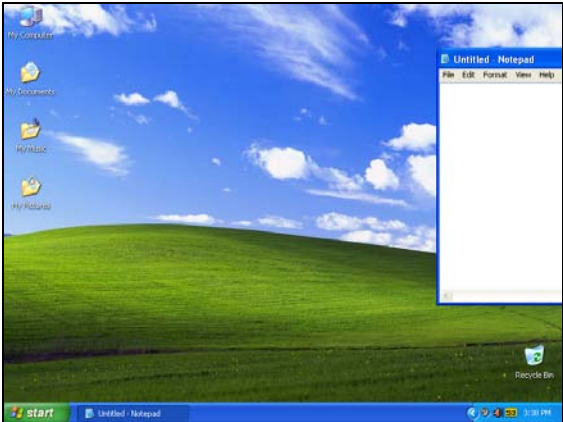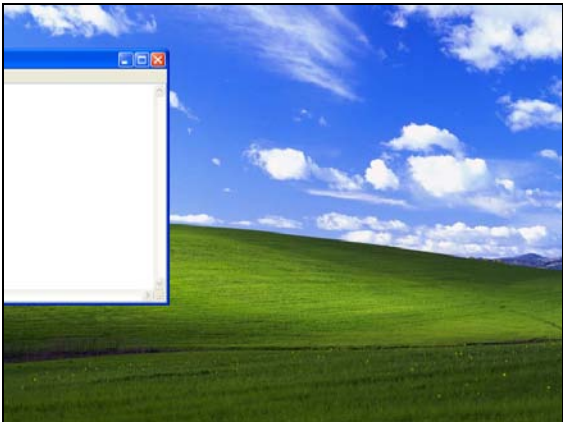
△ : You can use dual display. However, smaller display shows "Out of Range" during boot up the ST-B10. The other display is show the start screen.

Example of Clone mode and Extended Desktop mode is the following table.

Two displays show the same image (Clone mode)

Primary display	Secondary display

Two displays show the different image (Extended Desktop mode)

Primary display	Secondary display

Please use the VIA Graphic Controller whenever setting to the display. "S3TrayPlus utility" icon (tentatively name is "S3" icon) exists in the task tray (as indicated with the red circle). Make sure that "S3" icon exists in the task tray.

If "S3" icon does not exist, reboot the ST-B10.
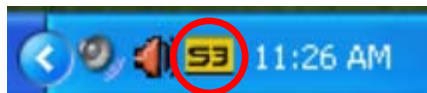
Setup for display depends on the Display-connection. Please refer to the table as below. There is "LCD" or "CRT" in menu of "S3TrayPlus utility", "LCD" is used in referring to "LVDS" and "CRT" is used in referring to "VGA".

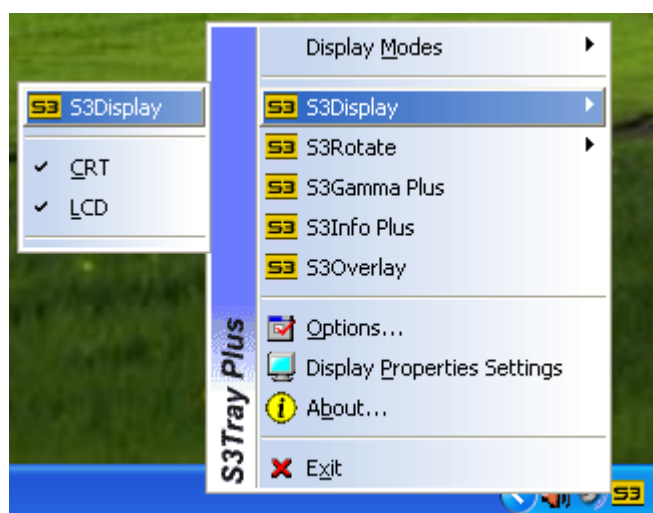| Primary Display	Secondary Display	Reference Section
LVDS (LCD)		4.1.1 Setup for Single Display connected via LVDS
VGA (CRT)		4.1.2 Setup for Single Display connected via VGA
LVDS (LCD)	VGA (CRT)	4.2.1 Setup for Dual Display (LVDS is for Primary display)
VGA (CRT)	LVDS (LCD)	4.2.2 Setup for Dual Display (VGA is for Primary display)

4.1. Setup for Single Display

In the case of the single display, refer to the following table.

Display-connection	Reference Section
LVDS (LCD)	4.1.1 Setup for Single Display connected via LVDS
VGA (CRT)	4.1.2 Setup for Single Display connected via VGA

4.1.1. Setup for Single Display connected via LVDS

Right-click on the "S3" icon and click on the "S3Display" menu, the following menu appears. Click on the "S3Dsiplay" menu.
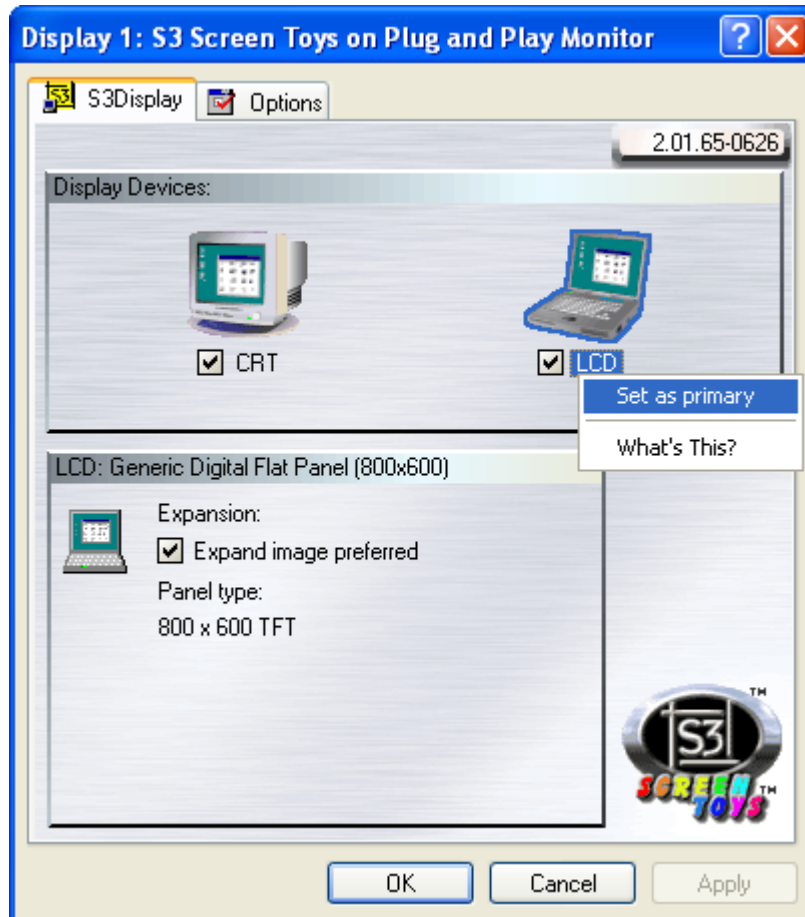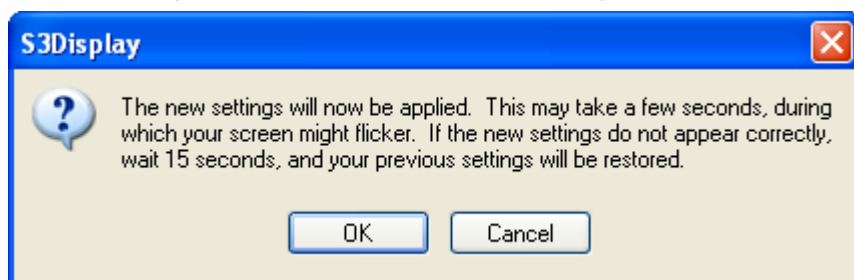
The following window appears. Right-click on the "LCD" icon from "Display Devices:" in "S3Display" tab. Then, click on the "Set as primary" menu. After that, click on the "Apply" button and the "OK" button.
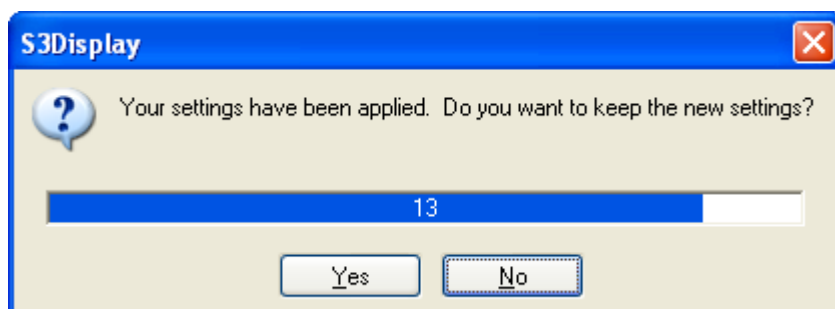
Note:

> If the "Set as primary" menu is not exist when you right-click on the "LCD" icon, the LVDS display is already Primary display. Please click on the "OK" button.

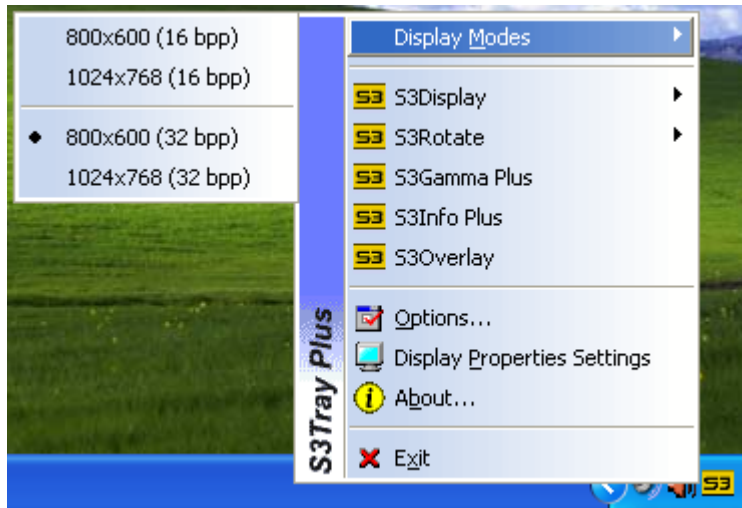When setting the "Set as primary", the following window appears. Click on the "OK" button.

When setting the "Set as primary", the following window appears. Click on the "Yes" button within 15 seconds to save the setting.
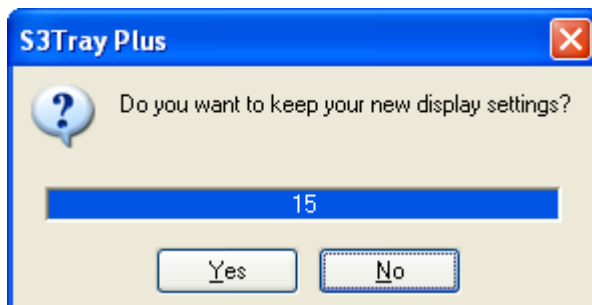
Right-click on the "S3" icon and click on the "Display Modes" menu, the following menu appears. Click on the item of resolution that you want set to.

Note:

When setting the display resolution, you may be able to select the illegal resolution that is outlying resolution. Please refer to Section **"7.1.2 About Setting for Display Resolution"**.
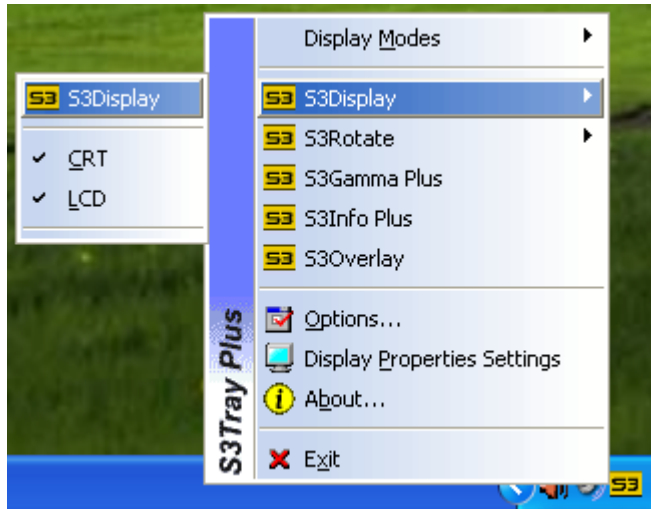

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

4.1.2.   Setup for Single Display connected via VGA

Right-click on the "S3" icon and click on the "S3Display" menu, the following menu appears. Click on the "S3Dsiplay" menu.
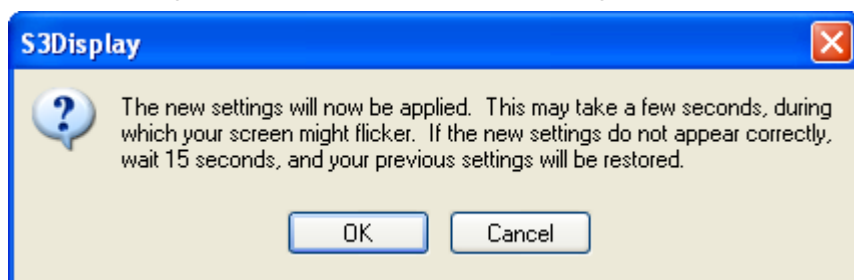

The following window appears. Right-click on the "CRT" icon from "Display Devices:" in "S3Display" tab. Then, click on the "Set as primary" menu. After that, click on the "Apply" button and the "OK" button.

Note:
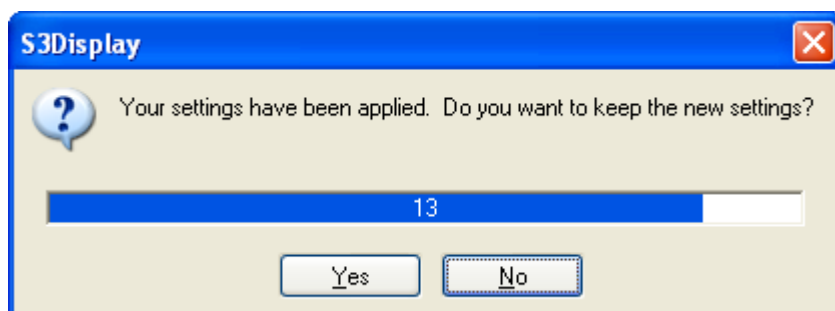
   If the "Set as primary" menu is not exist when you right-click on the "CRT" icon, the VGA display is already Primary display. Please click on the "OK" button.

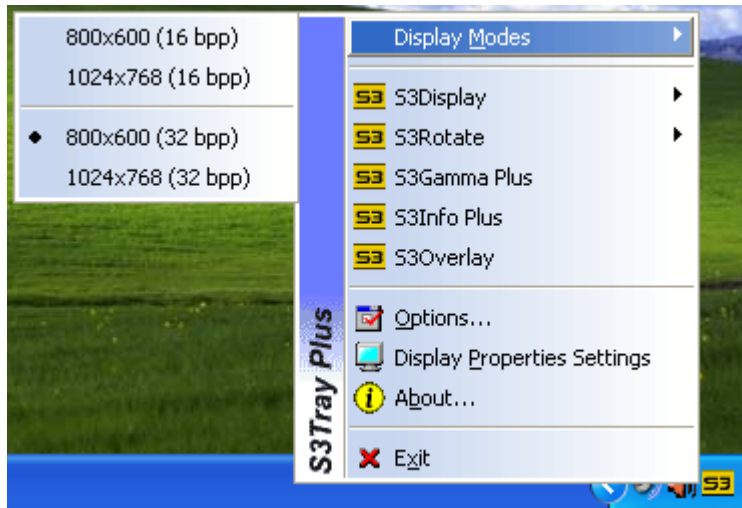When setting the "Set as primary", the following window appears. Click on the "OK" button.

When setting the "Set as primary", the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

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Right-click on the "S3" icon and click on the "Display Modes" menu, the following menu appears. Click on the item of resolution that you want set to.

Note:

When setting the display resolution, you may be able to select the illegal resolution that is outlying resolution. Please refer to Section **"7.1.2 About Setting for Display Resolution"**.

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

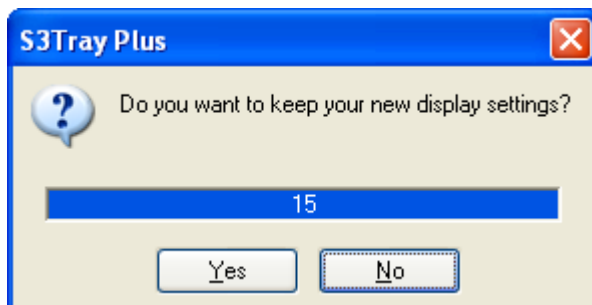## 4.2. Setup for Dual Display

In case of the dual display, refer to the following table.

Primary Display	Secondary Display	Reference Section
LVDS (LCD)	VGA (CRT)	4.2.1 Setup for Dual Display (LVDS is for Primary display)
VGA (CRT)	LVDS (LCD)	4.2.2 Setup for Dual Display (VGA is for Primary display)

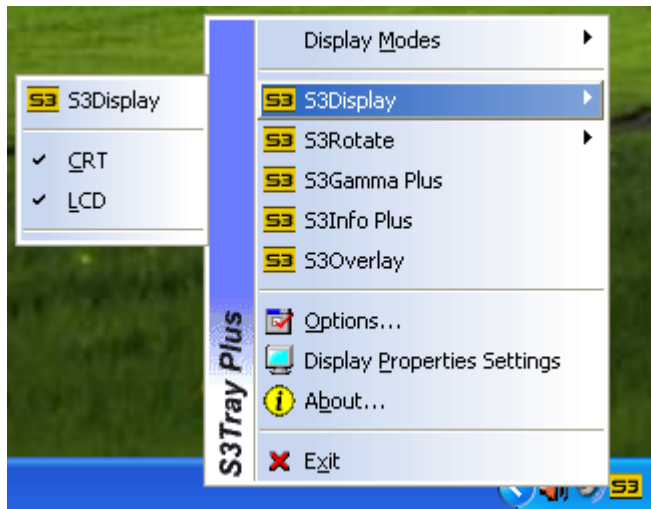## 4.2.1. **Setup for Dual Display (LVDS is for Primary display)**

The outline of procedures to setup for dual display is as follows when the Primary display connects to LVDS.

i. Getting Started
ii. Setting for LVDS display as Primary
iii. Setting for display modes (Clone mode / Extend Desktop mode)
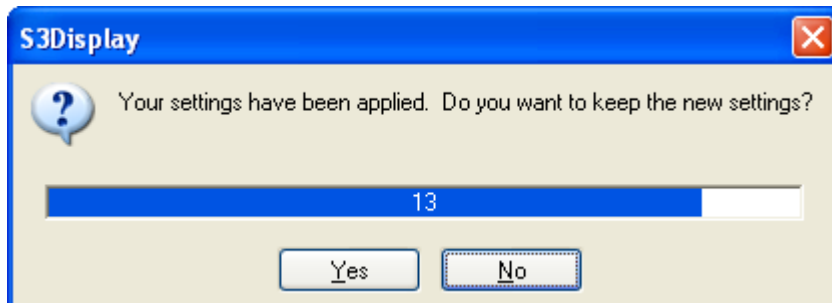iv. Setting for display resolution

i. Getting Started

Right-click on the "S3" icon and click on the "S3Display" menu, the following menu appears. Please make sure that both "CRT" and "LCD" are selected.
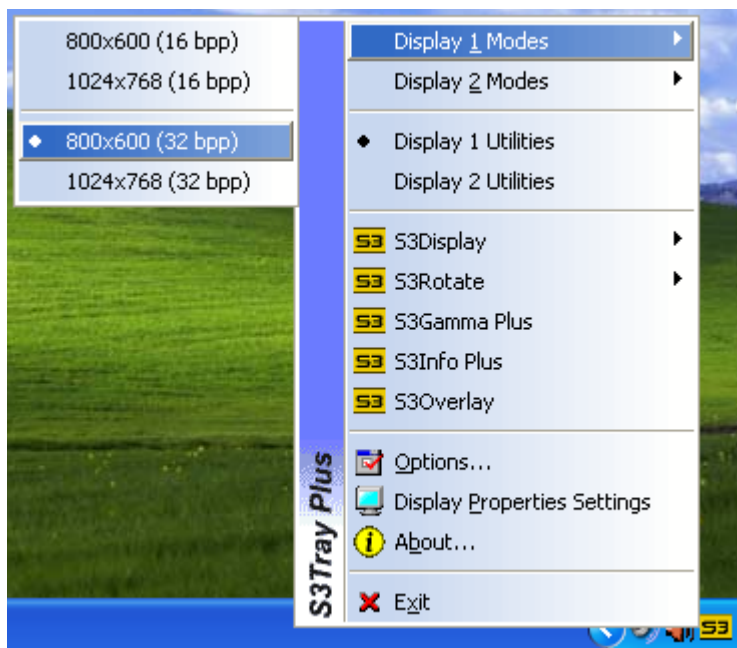If any items are not selected, select item.

If selecting any items, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.
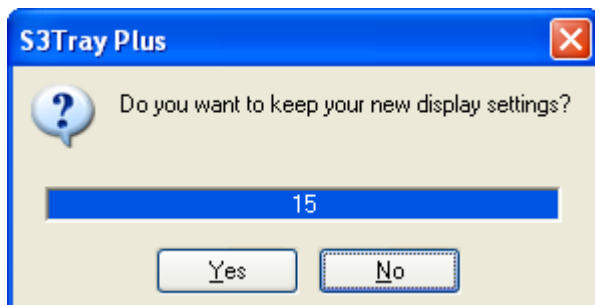
When the current Extended Desktop mode, please operate as follows. When the current Clone mode, please skip to the Section **"ii. Setting for LVDS display as Primary"**.

Right-click on the "S3" icon and click on the "Display 1 Modes" menu, the following menu appears. Click on the resolution of "800×600" menu.

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.
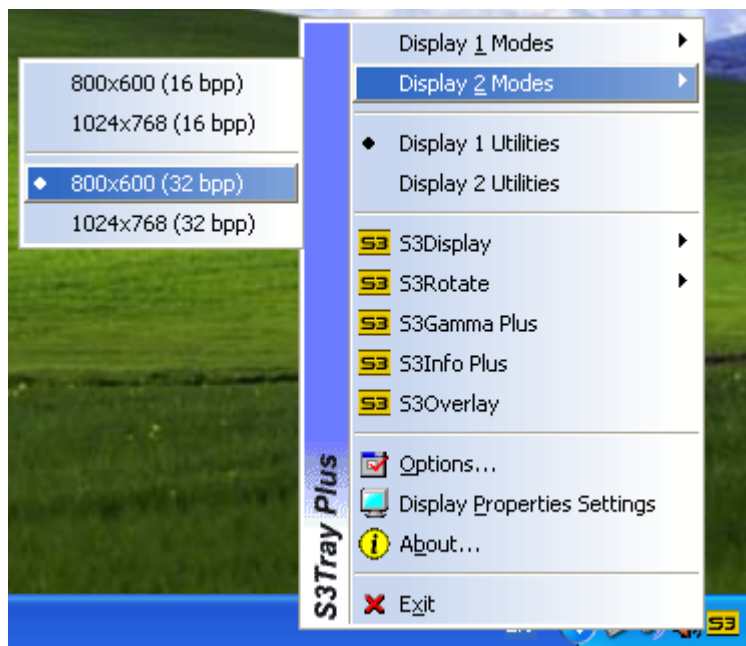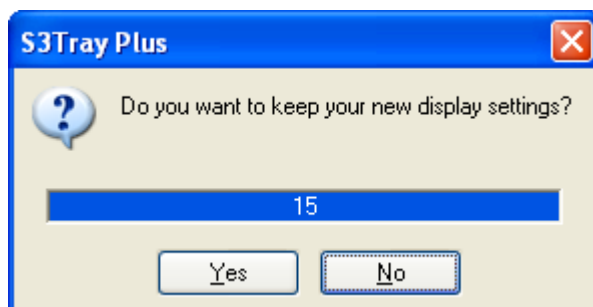
Right-click on the "S3" icon and click on the "Display 2 Modes" menu, the following menu appears. Click on the resolution of "800×600" menu.
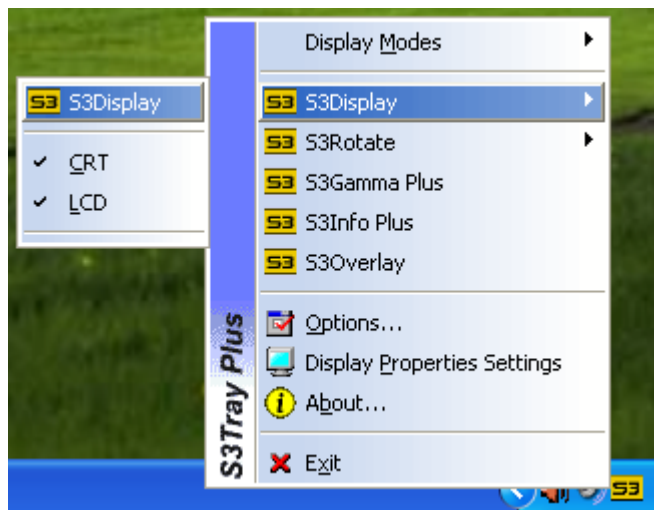

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.
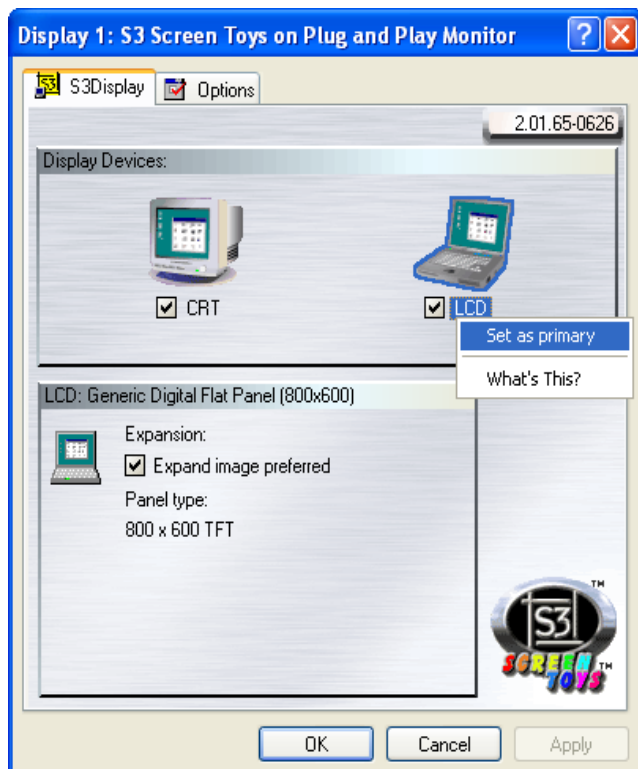
ii. Setting for LVDS display as Primary

Right-click on the "S3" icon and click on the "S3Display" menu, the following menu appears. Click on the "S3Dsiplay" menu.

The following menu appears. Right-click on the "LCD" icon from "Display Devices:" in "S3Display" tab. Then, click on the "Set as primary" menu, click on the "Apply" button and the "OK" button.
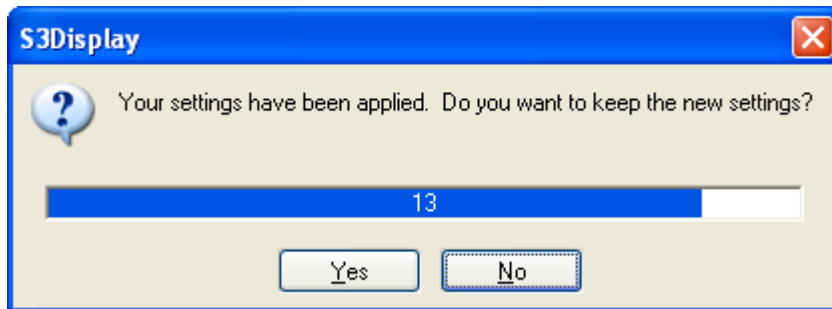
Note:

> If the "Set as primary" menu is not exist when you right-click on the "LCD" icon, the LVDS display is already Primary display. Please click on the "OK" button, and skip to Section **"iii. Setting for display modes (Clone mode / Extend Desktop mode)"**.

When setting the "Set as primary", the following window appears. Click on the "OK" button.

When setting the "Set as primary", the following window appears. Click on the "Yes" button within 15 seconds to save the setting.
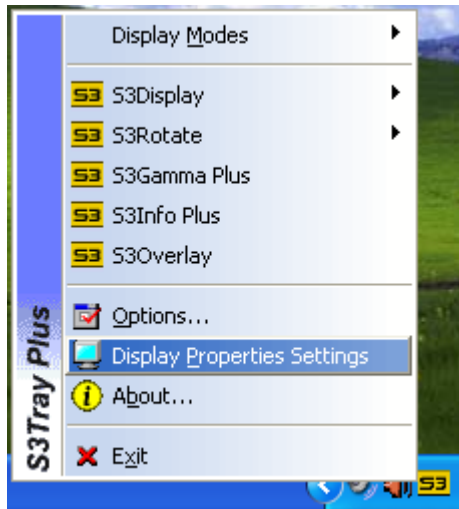

iii. Setting for display modes (Clone mode / Extend Desktop mode)

To set for display modes, you must set LVDS display as Primary with reference to Section **"ii. Setting for LVDS display as Primary"**.

➢ When setting Clone mode, go to the **(a)**.
➢ When setting Extended Desktop mode, go to the **(b)**.

(a) Setting for Clone mode

Right-click on the "S3" icon, the following menu appears. Click on the "Display Properties Settings" menu.

The following window appears. Then, select the "Settings" tab. Click on the **"2"** (as indicated with the red circle), and uncheck "Extend my Windows desktop onto this monitor." check box (as indicated with the blue circle). Click on the "Apply" button and the "OK" button.

Note:

If "Extend my Windows desktop onto this monitor." check box is unchecked, the display is already set Clone mode. Please click on the "OK" button.
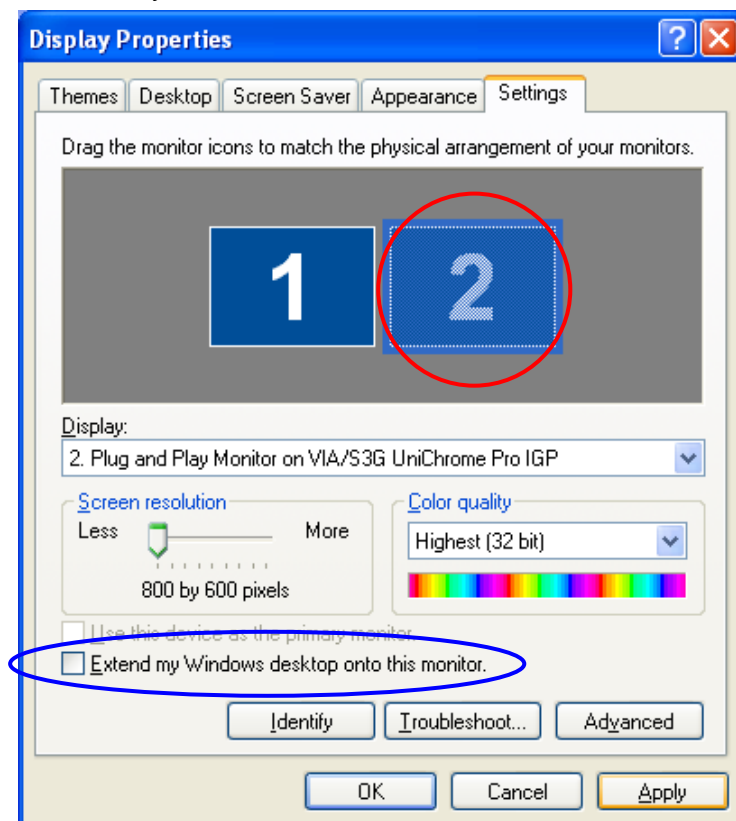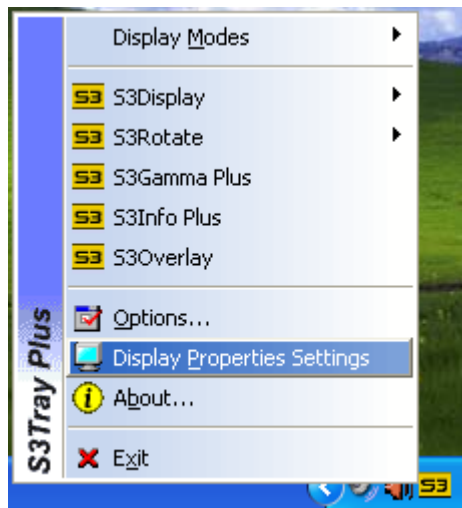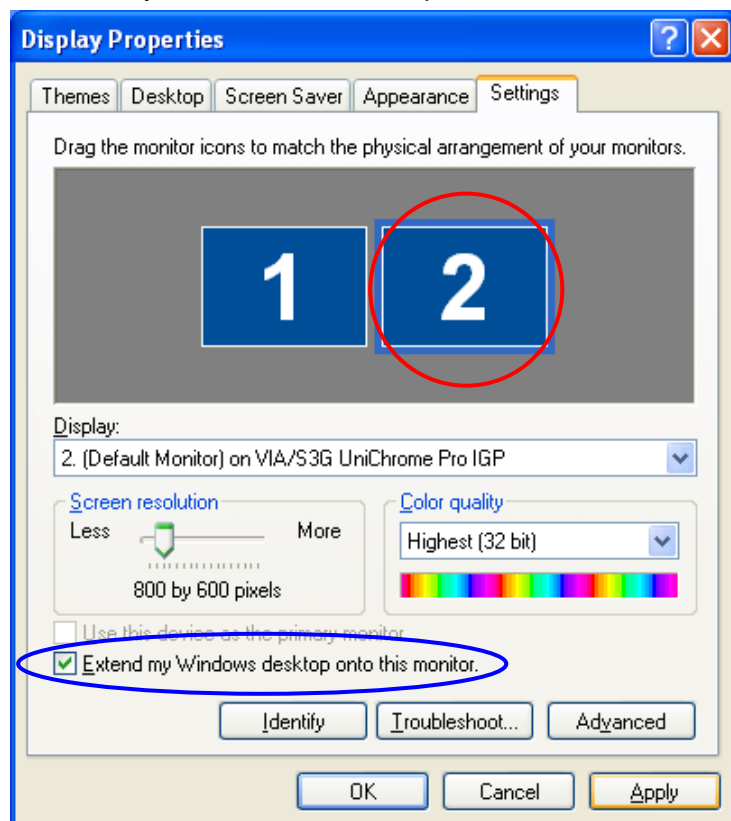
(b) Setting for Extended Desktop mode

Right-click on the "S3" icon, the following menu appears. Click on the "Display Properties Settings" menu.

The following window appears. Then, select the "Settings" tab. Click on the **"2"** (as indicated with the red circle), and check "Extend my Windows desktop onto this monitor." check box (as indicated with the blue circle). Click on the "Apply" button and the "OK" button.
Note:
    If "Extend my Windows desktop onto this monitor." check box is checked, the display is
    already set Extended Desktop mode. Please click on the "OK" button.
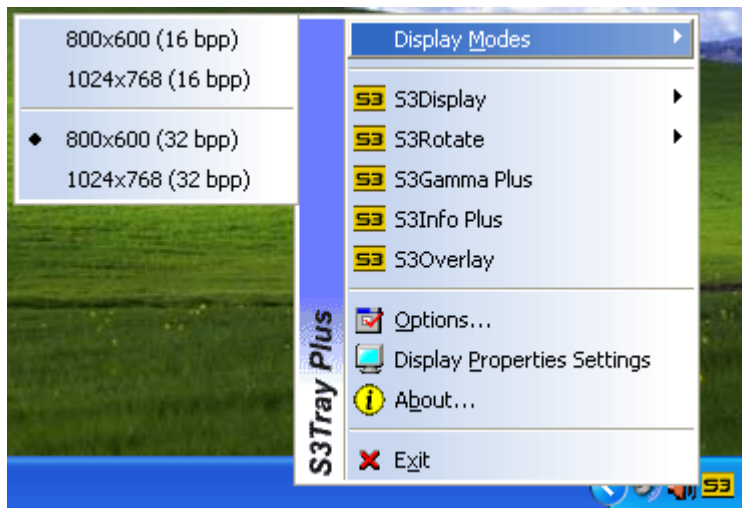
iv. Setting for display resolution

➢   In the case of Clone mode, go to the **(a)**.
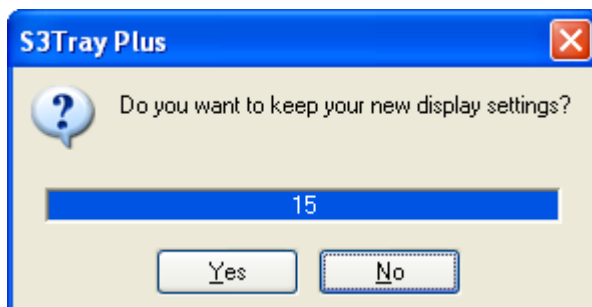➢   In the case of Extended Desktop mode, go to the **(b)**.
Note:

When setting the display resolution, you may be able to select the illegal resolution that is outlying resolution. Please refer to Section **"7.1.2 About Setting for Display Resolution"**.

(a) Setting for display resolution of Clone mode

Right-click on the "S3" icon and click on the "Display Modes" menu, the following menu appears. Click on the item of resolution that you want set to.
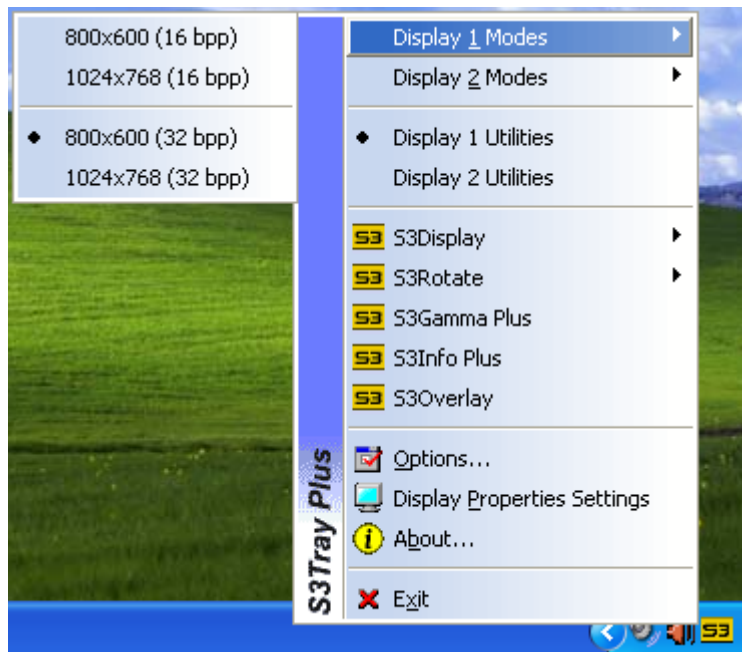

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

(b) Setting for display resolution of Extended Desktop mode
Setting for resolution of Primary display (LVDS)

  Right-click on the "S3" icon and click on the "Display 1 Modes" menu, the following menu appears. Click on the item of resolution that you want set to.

  When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

Setting for resolution of Secondary display (VGA)

Right-click on the "S3" icon and click on the "Display 2 Modes" menu, the following menu appears. Click on the item of resolution that you want set to.

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.
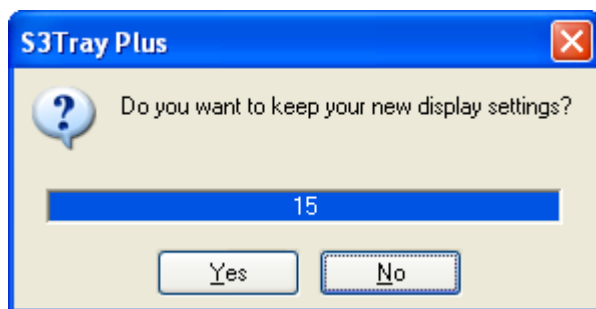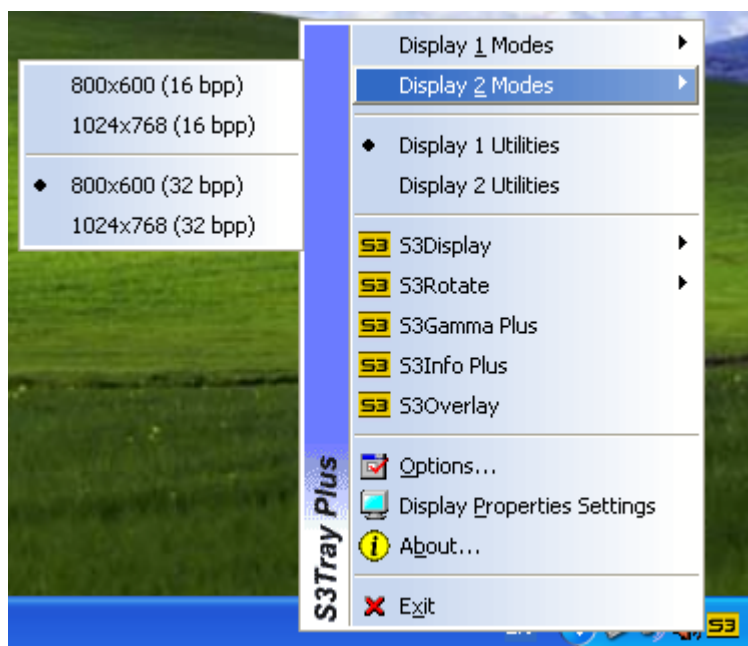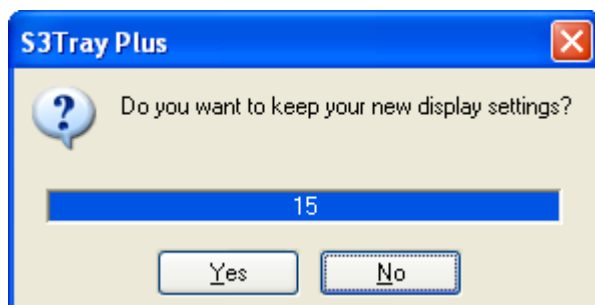
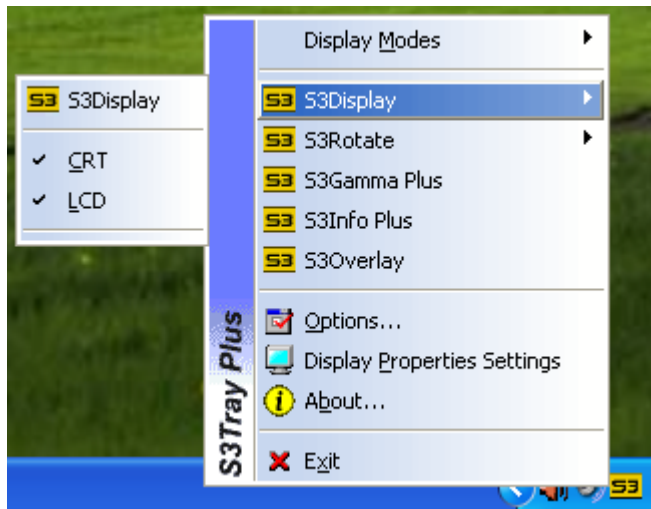### 4.2.2. Setup for Dual Display (VGA is for Primary display)

The outline of procedures to setup for dual display is as follows when the Primary display connects to VGA.

i.   Getting Started
ii. Setting for VGA display as Primary
iii. Setting for display modes (Clone mode / Extend desktop mode)
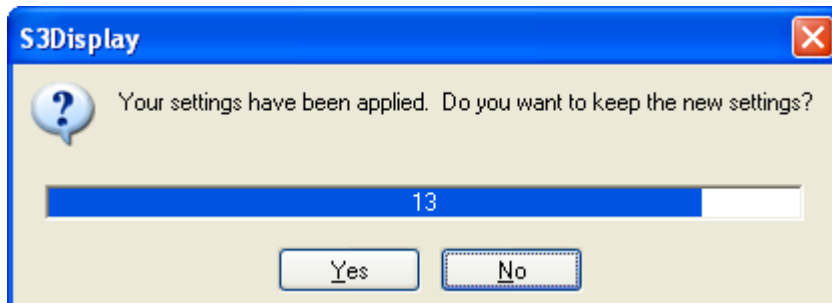iv. Setting for display resolution

i.   Getting Started

Right-click on the "S3" icon and click on the "S3Display" menu, the following menu appears. Please make sure that both "CRT" and "LCD" are selected.
If any items are not selected, select item.

If selecting any items, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

When the current Extended Desktop mode, please operate as follows. When the current Clone mode, please skip to the Section **"ii. Setting for VGA display as Primary"**.

Right-click on the "S3" icon and click on the "Display 1 Modes" menu, the following menu appears. Click on the resolution of "800×600" menu.

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

Right-click on the "S3" icon and click on the "Display 2 Modes" menu, the following menu appears. Click on the resolution of "800×600" menu.

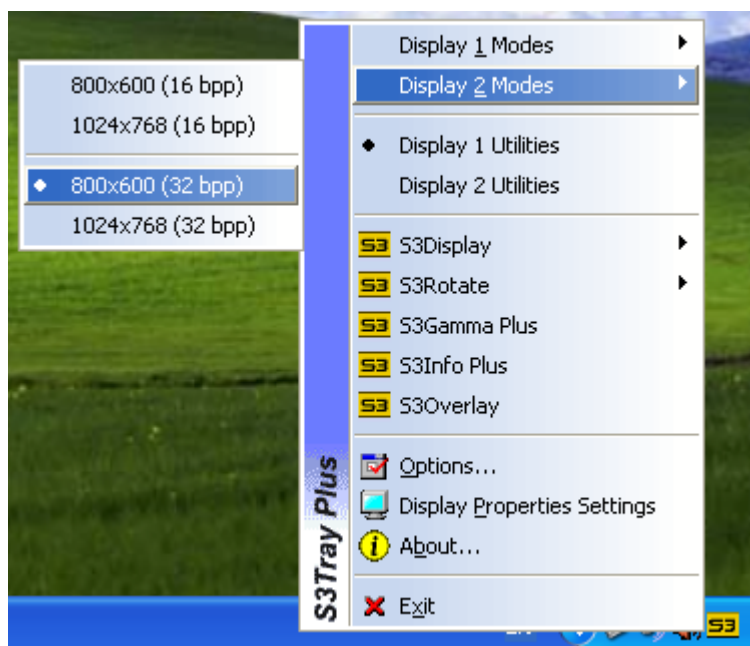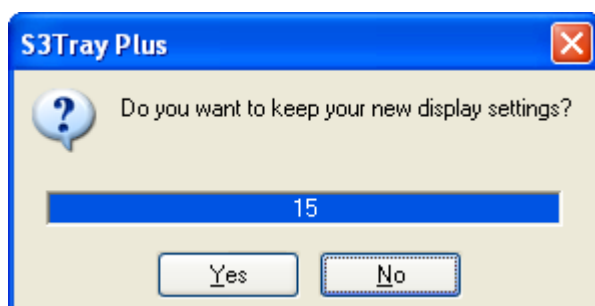When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

ii. Setting for VGA display as Primary

Right-click on the "S3" icon and click on the "S3Display" menu, the following menu appears. Click on the "S3Dsiplay" menu.

The following window appears. Right-click on the "CRT" icon from "Display Devices:" in "S3Display" tab. Then, click on the "Set as primary" menu, click on the "Apply" button and the "OK" button.

Note:

> If the "Set as primary" menu is not exist when you right-click on the "CRT" icon, the VGA display is already Primary display. Please click on the "OK" button, and skip to Section **"iii. Setting for display modes (Clone mode / Extend Desktop mode)"**.

When setting the "Set as primary", the following window appears. Click on the "OK" button.
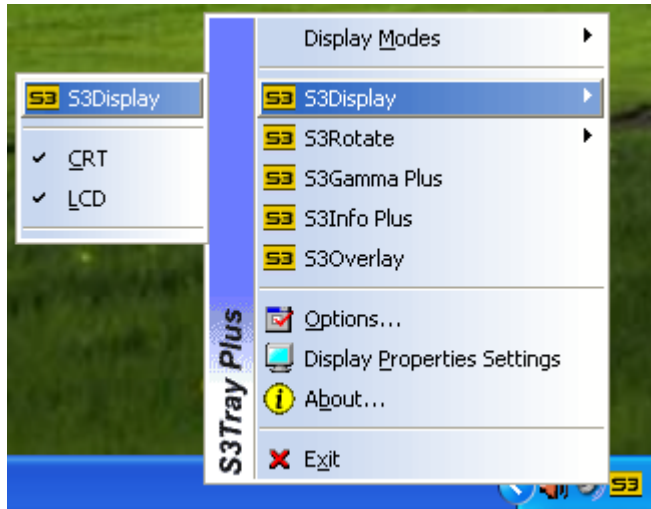

When setting the "Set as primary", the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

iii. Setting for display modes (Clone mode / Extend Desktop mode)

To set for display modes, you must set VGA display as Primary with reference to Section **"ii. Setting for VGA display as Primary"**.

➢ When setting Clone mode, go to the **(a)**.
➢ When setting Extended Desktop mode, go to the **(b)**.

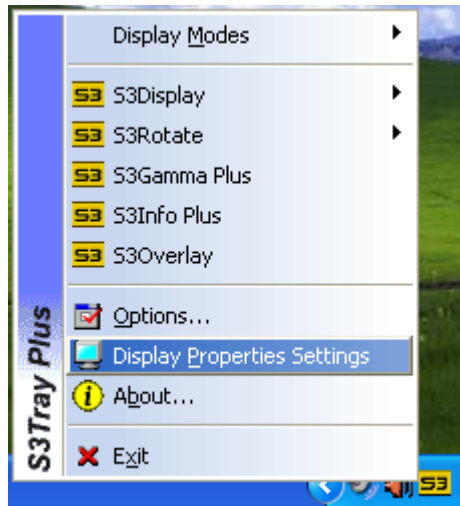### (a) Setting for Clone mode

Right-click on the "S3" icon, the following menu appears. Click on the "Display Properties Settings" menu.

The following window appears. Then, select the "Settings" tab. Click on the **"2"** (as indicated with the red circle), and uncheck "Extend my Window desktop onto this monitor." check box (as indicated with the blue circle). Click on the "Apply" button and the "OK" button.
Note:

If "Extend my Windows desktop onto this monitor." check box is unchecked, the display is already set Clone mode. Please click on the "OK" button.
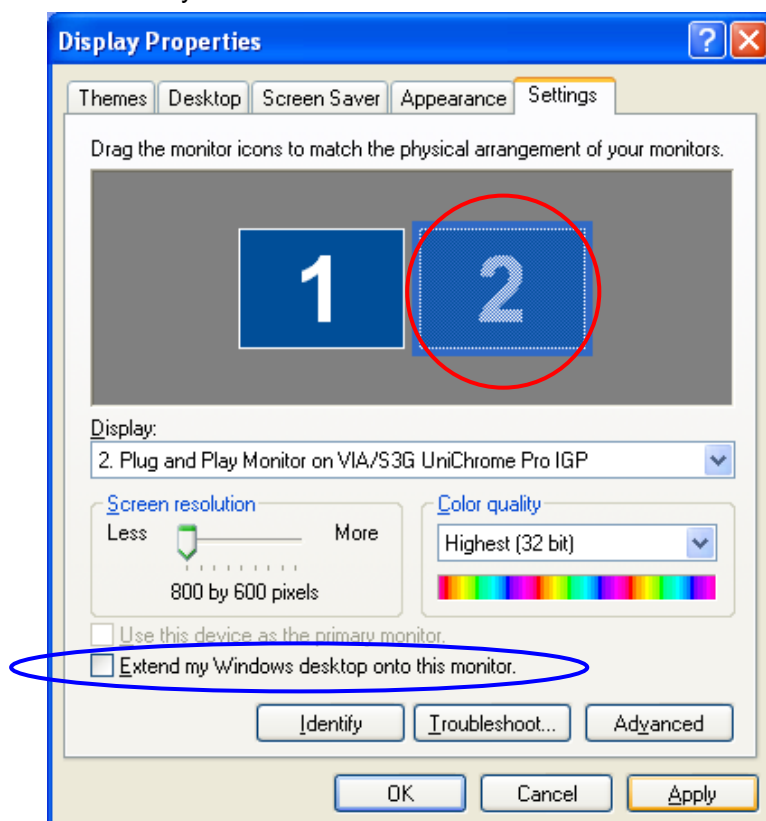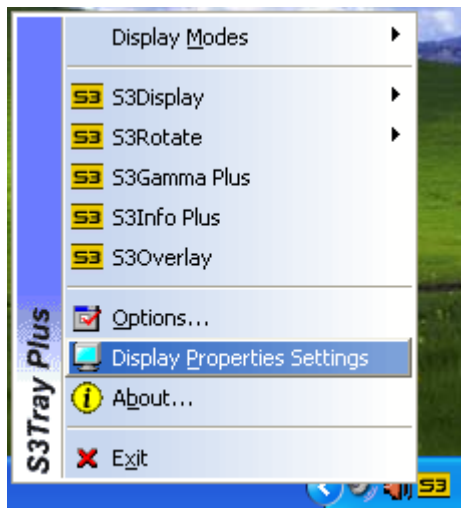
(b) Setting for Extended Desktop mode

Right-click on the "S3" icon, the following menu appears. Click on the "Display Properties Settings" menu.

The following window appears. Then, select the "Settings" tab. Click on the **"2"** (as indicated with the red circle), and check "Extend my Windows desktop onto this monitor." check box (as indicated with the blue circle). Click on the "Apply" button and the "OK" button.

Note:

If "Extend my Windows desktop onto this monitor." check box is checked, the display is already set Extended Desktop mode. Please click on the "OK" button.
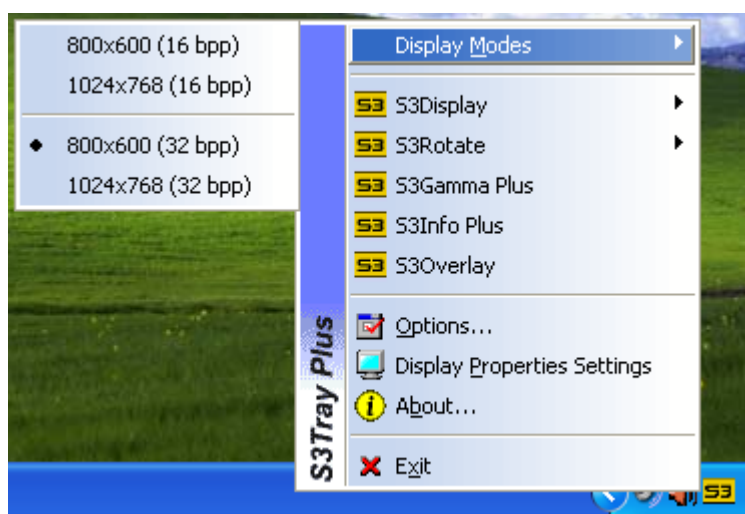
iv. Setting for display resolution

➢   In the case of Clone mode, go to the **(a)**.
➢   In the case of Extended Desktop mode, go to the **(b)**.
Note:
   When setting the display resolution, you may be able to select the illegal resolution that is outlying resolution. Please refer to Section **"7.1.2 About Setting for Display Resolution"**.

(a) Setting for display resolution of Clone mode

  Right-click on the "S3" icon and click on the "Display Modes" menu, the following menu appears. Click on the item of resolution that you want set to.

  When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

(b) Setting for display resolution of Extended Desktop mode
Setting for resolution of Primary display (VGA)

Right-click on the "S3" icon and click on the "Display 1 Modes" menu, the following menu appears. Click on the item of resolution that you want set to.

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.

Setting for resolution of Secondary display (LVDS)

Right-click on the "S3" icon and click on the "Display 2 Modes" menu, the following menu appears. Click on the item of resolution that you want set to.
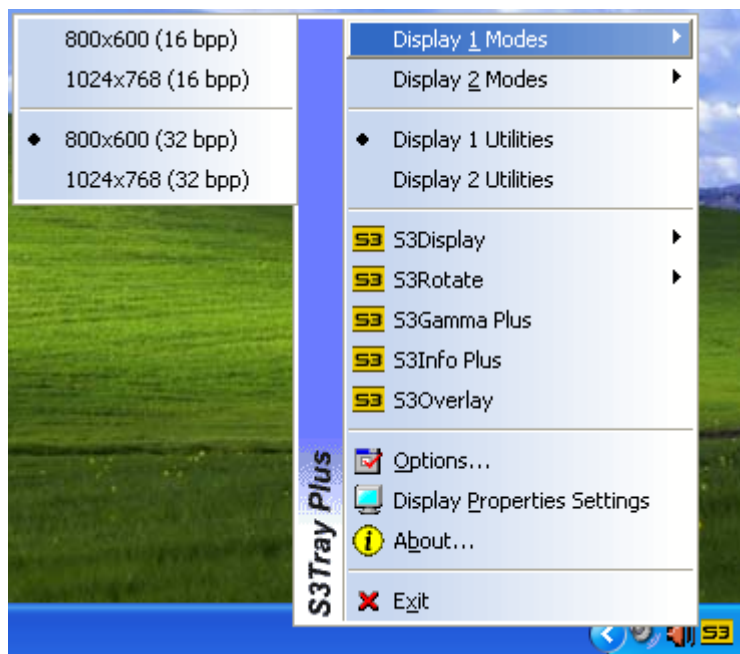

When setting the resolution, the following window appears. Click on the "Yes" button within 15 seconds to save the setting.
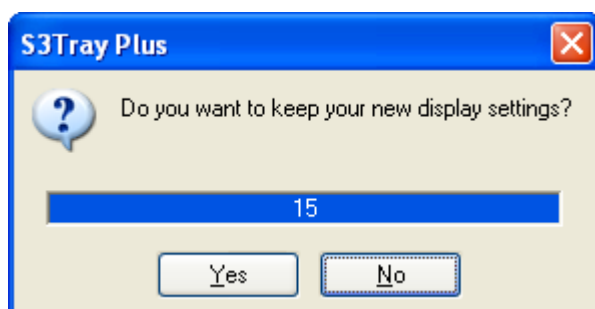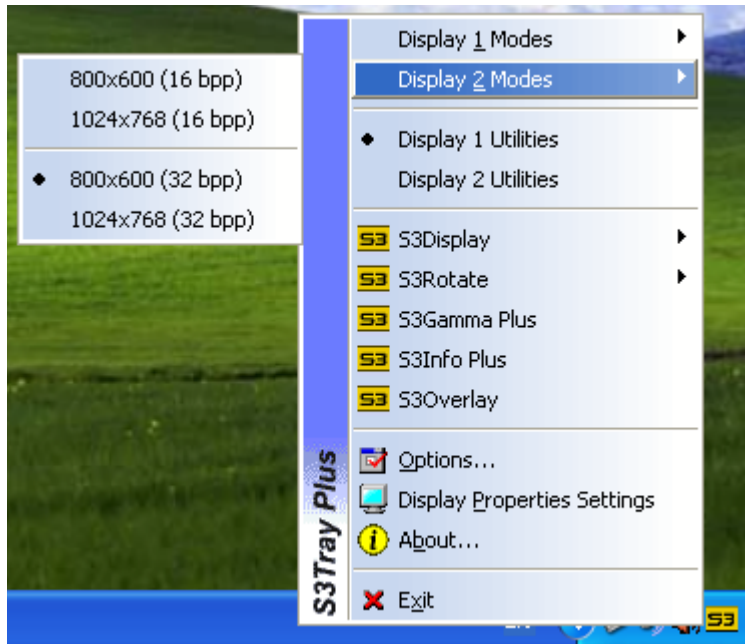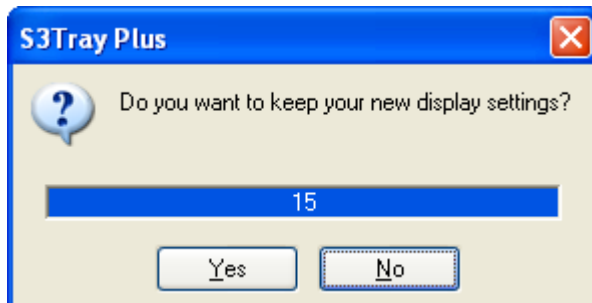
5. Installation and Setup for Touch Panel

The outline of procedures to set up drivers on the ST-B10 is as follows. Please make sure to connect touch panel to ST-B10 whenever installation for touch panel.

Setup Procedure:

5.1. Installation for Elo Touch Panel Driver

5.2. Additional installation for Elo Touch Panel Driver

5.3. Clearing the warning message on Control Panel of Touch Panel driver

5.4. Calibration for Touch Panel

Please refer to table below to install for Touch Panel Driver.
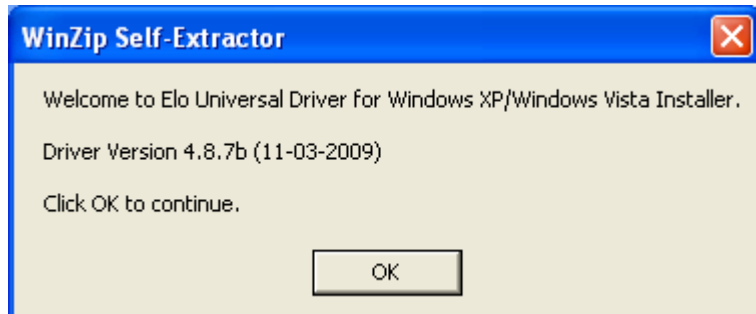
Purpose of Installation	Reference Section
You want to use single Touch Panel.	5.1 Installation for Elo Touch Panel Driver
You want to use dual Touch Panel.	
You want to add second Touch Panel.	5.2 Additional installation for Elo Touch Panel Driver

Note:

Please reboot ST-B10 upon request during installation for Elo Touch Panel Driver.

5.1. Installation for Elo Touch Panel Driver

Run "XPU4.8.7b.exe" in the "ST-B10Win¥Display¥TFTST-A20_TFTST-B20¥ELOTouchPanel" folder in the Driver Kit CD-ROM, and the following window appears. Click on the "OK" button.

The following window appears. Click on the "Unzip" button, then the files are decompressed.

The following window appears. Click on the "OK" button.

The following window appears. Choose a language, if necessary, and then click on the "Next" button.

The following window appears. Check the "Install Serial Touchscreen Drivers" check box, and click on the "Next" button.

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

The following window appears. Check the "Auto-detect Elo touchscreens." check box, then click on the "Next" button.

The following window appears. The touch panel connected to the ST-B10 is detected, and "COMx" is chosen. If you use dual touch panel, two "COMx" are chosen. Click on the "Next" button.

Note:

If "COMx" is not chosen, there may be a problem. Please make sure the connection of touch panel.

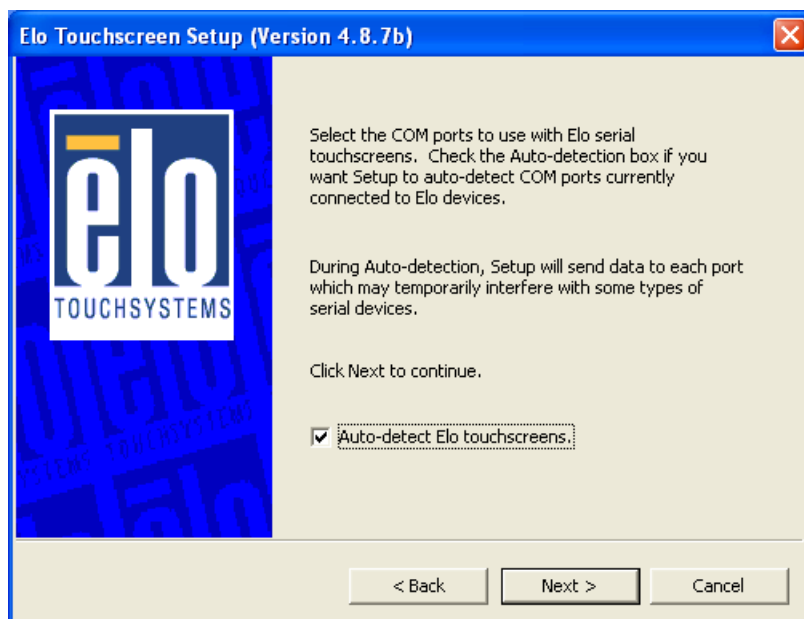When you install any touch panel drivers other than Elo Touch Panel Driver, installed "COMx" may not shows.
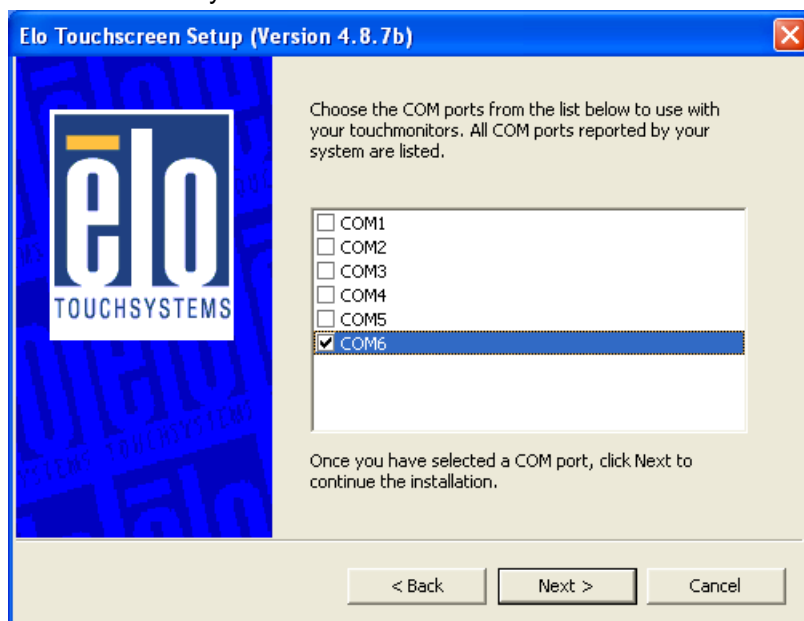
The following window appears. Click on the "Next" button.

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors." check box, and click on the "Finish" button.
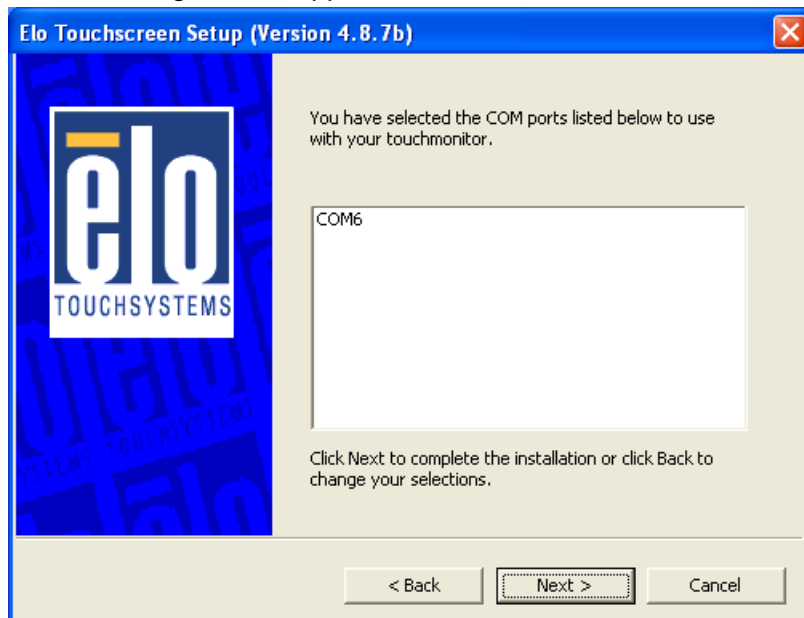
The following calibration screen appears. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)

Note:

The calibration screen appears one time each a touch panel. The calibration screen appears two times at two touch panels.
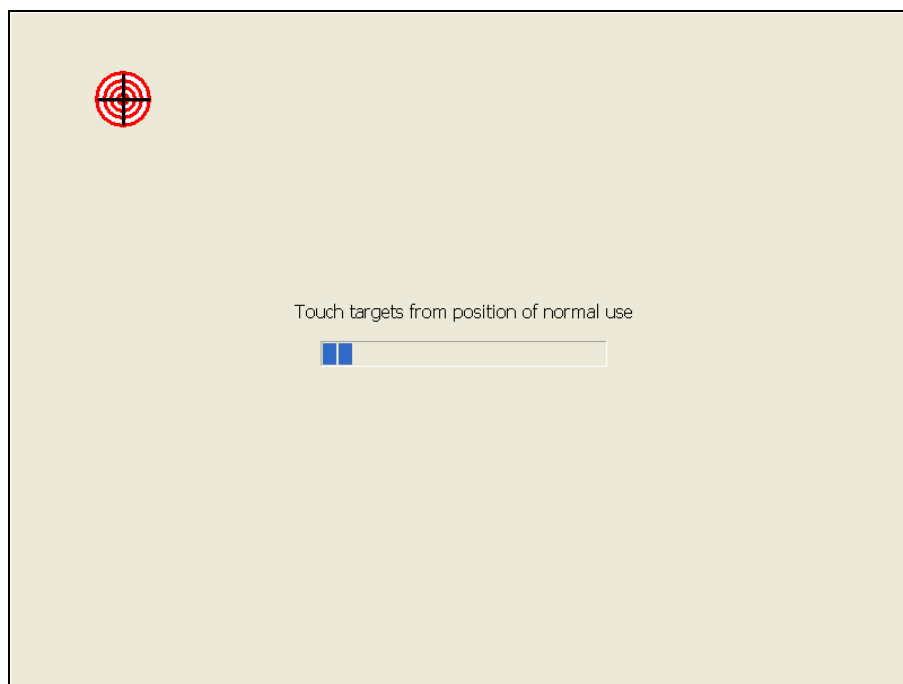
In the case of Dual Display, please refer to the table as below.

Remainder to use two touch panels

Display modes	Remainder of Calibration
Clone	The calibration screen appears on both panels two times. When you calibrate touch panels, sequence of calibration does not make any difference.
Extended desktop	The calibration screen appears Primary display. After that, the screen appears Secondary display.

Remainder to use single touch panel and another non-touch display

| Display modes	Remainder of Calibration
Clone	The calibration screen appears both monitors. Please calibrate touch panel.
Extended desktop	The calibration screen appears Primary display. If Secondary display is touch panel, press "Esc" key from keyboard. The calibration screen appears Secondary display.

   After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration.
   If using dual touch panel, the calibration screen re-appears.

Touch the screen. Does the cursor follow your finger?
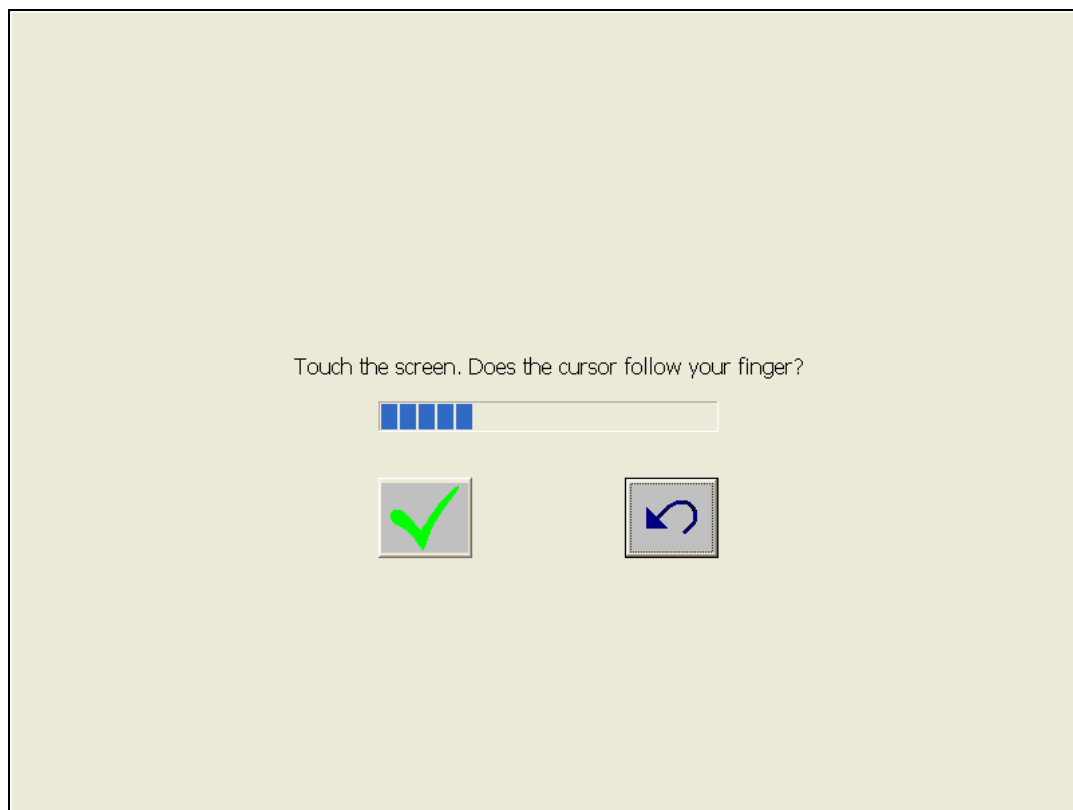
Open Device Manager to confirm the touch panel driver has been installed. If ST-B10 is connected to single touch panel, make sure that single "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.
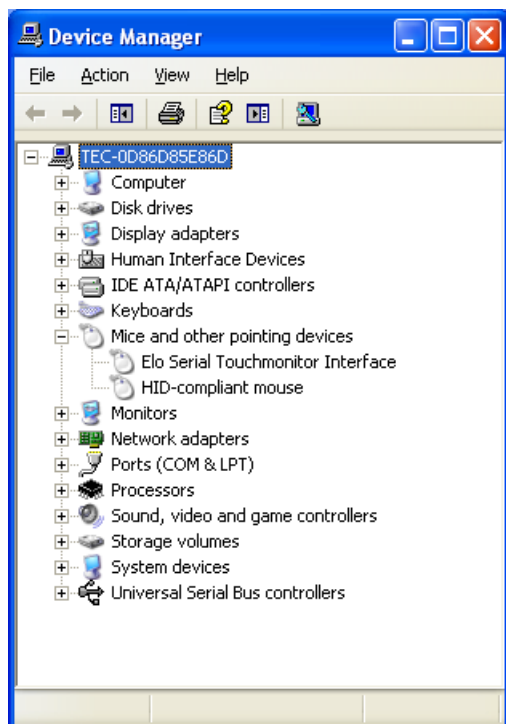
If ST-B10 connects dual touch panel, Make sure that double "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing device" icon.
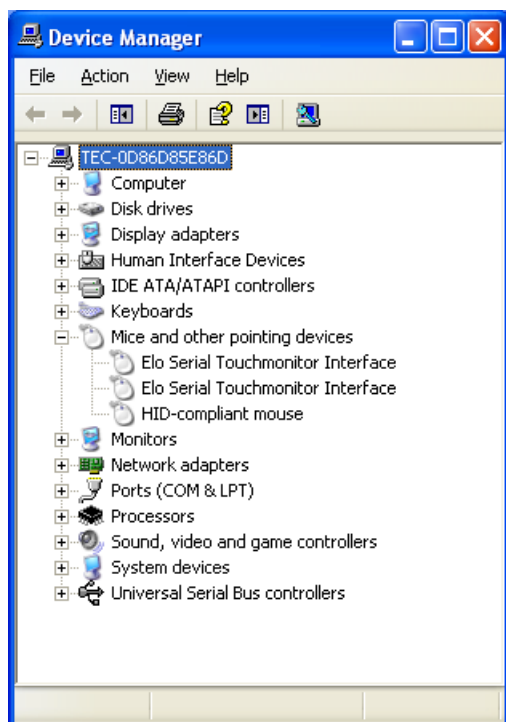
5.2. Additional installation for Elo Touch Panel Driver

When you install for Elo touch panel driver to add second Touch Panel, refer to below.

Run "XPU4.8.7b.exe" in the "ST-B10Win¥Display¥TFTST-A20_TFTST-B20¥ELOTouchPanel" folder in the Driver Kit CD-ROM, and the following window appears. Click on the "OK" button.

The following window appears. Click on the "Unzip" button, then the files are decompressed.

The following window appears. Click on the "OK" button.

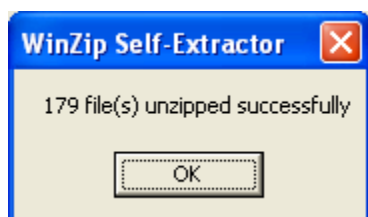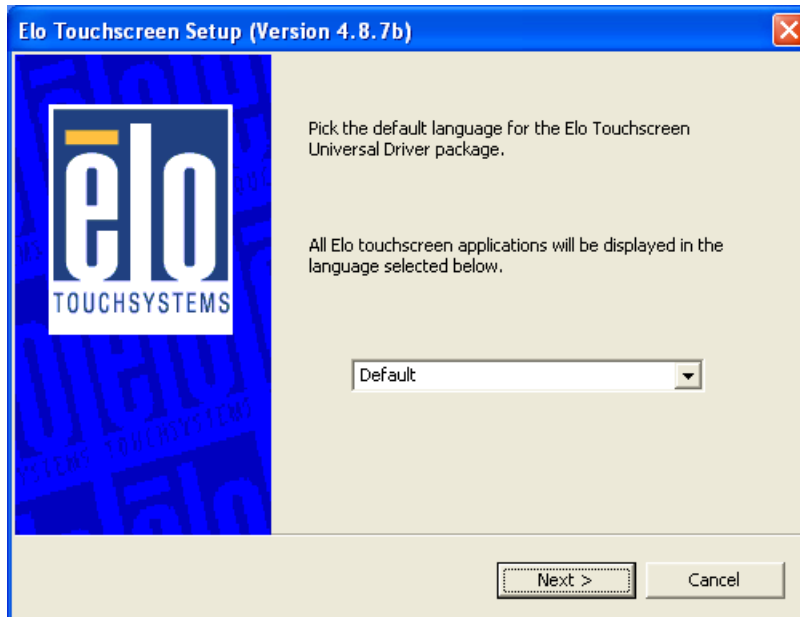The following window appears. Choose a language, if necessary, and then click on the "Next" button.

The following window appears. Check the "Install Serial Touchscreen Drivers" check box, and click on the "Next" button.

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The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.
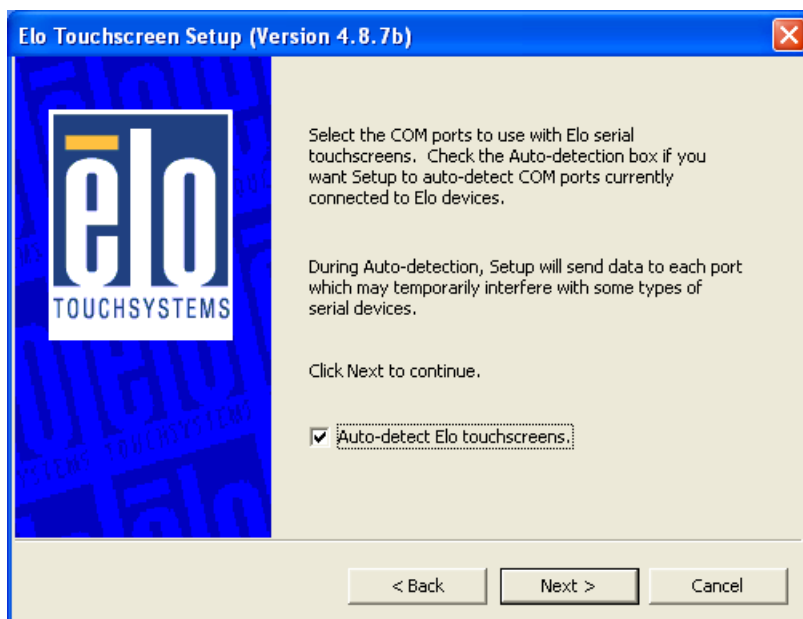

The following window appears. Check the "Auto-detect Elo touchscreens" check box, then click on the "Next" button.

The following window appears. The touch panel connected to the ST-B10 is detected, and "COMx" is chosen. Check "COMx (Elo Driver Already Installed)" and click on the "Next" button.
Note:

If "COMx" is not chosen, there may be a problem. Please make sure of connecting touch panel to ST-B10.

If "COMx (Elo Driver Already Installed)" is nonexistent, there may be a problem. Please make sure that the Elo touch panel driver has been installed.

If you do not checked the "COMx (Elo Driver Already Installed)", the installation does not be completed.

When you install any touch panel drivers other than Elo Touch Panel Driver, installed "COMx" may not shows.

The following window appears. Click on the "Next" button.

TOSHIBA TEC CORPORATION   EAA-03033
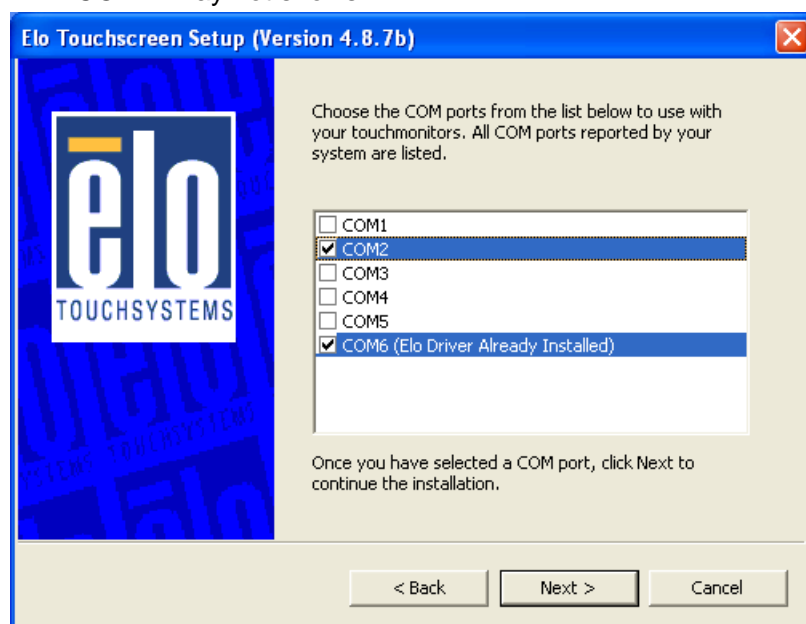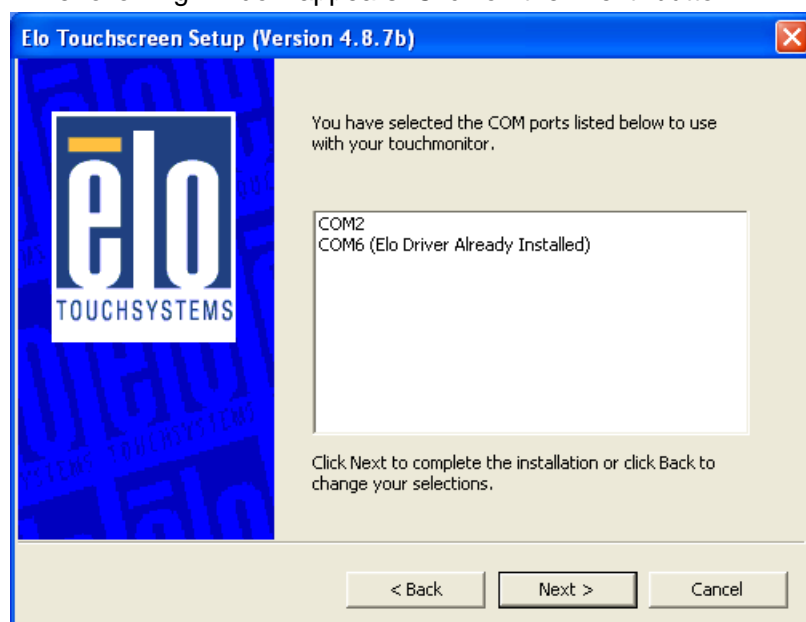
After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

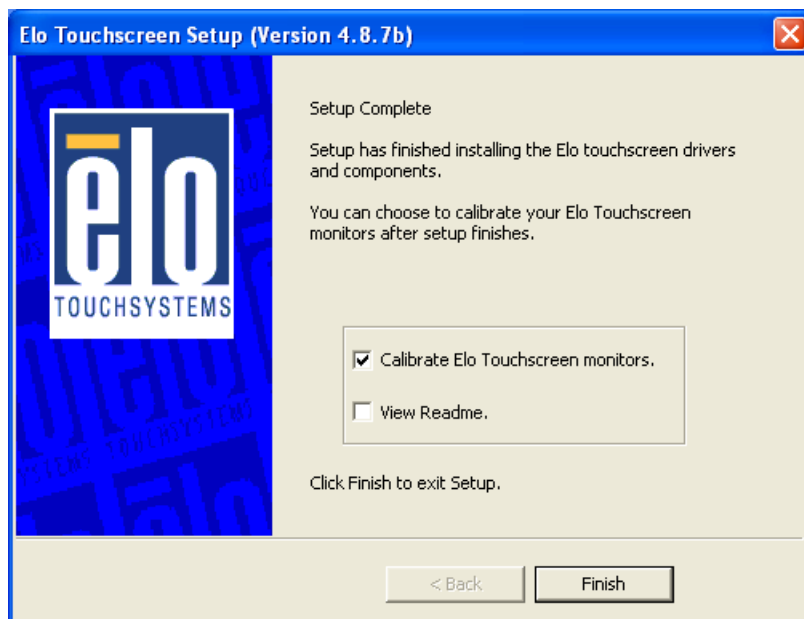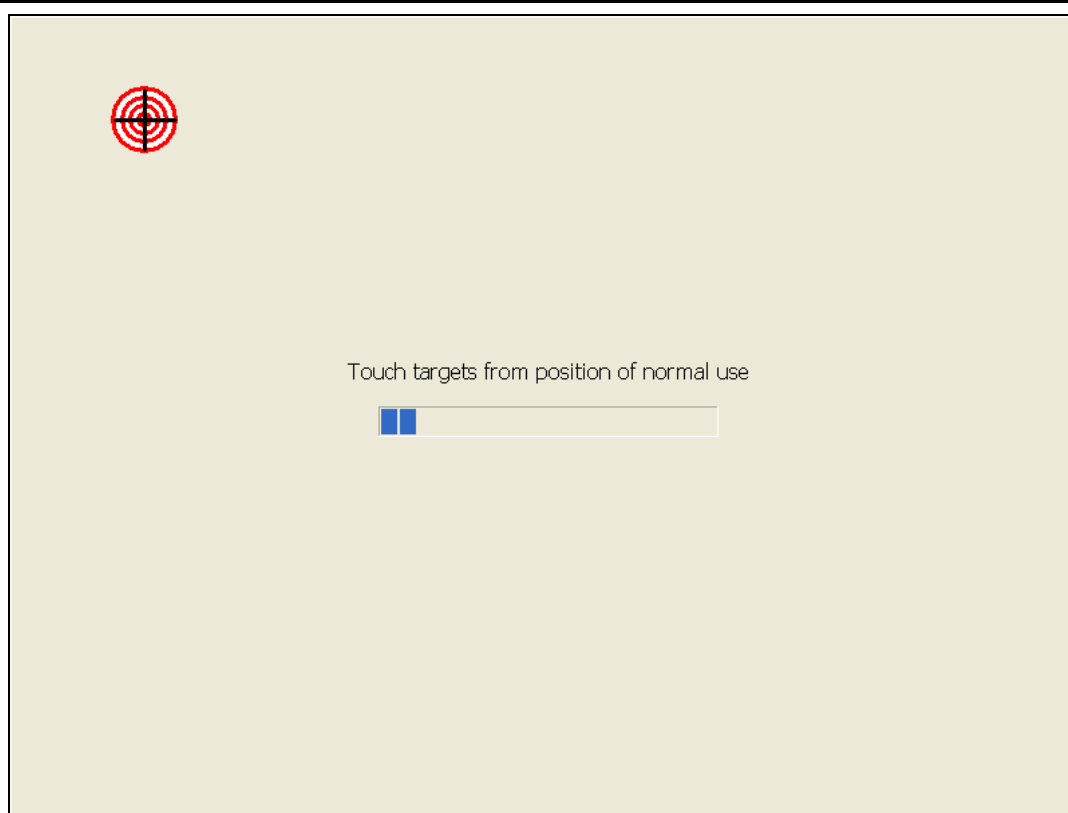The following calibration screen appears. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)

In display modes, how to calibration is difference. Please refer to the table as below.

Remainder to use dual touch panel

Display modes	Remainder of Calibration
Clone	The calibration screen appears on both panels two times. When you calibrate touch panels, sequence of calibration does not make any difference.
Extended desktop	The calibration screen appears Primary display. After that, the screen appears Secondary display.

Touch targets from position of normal use

After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration. After then, calibration screen re-appears.
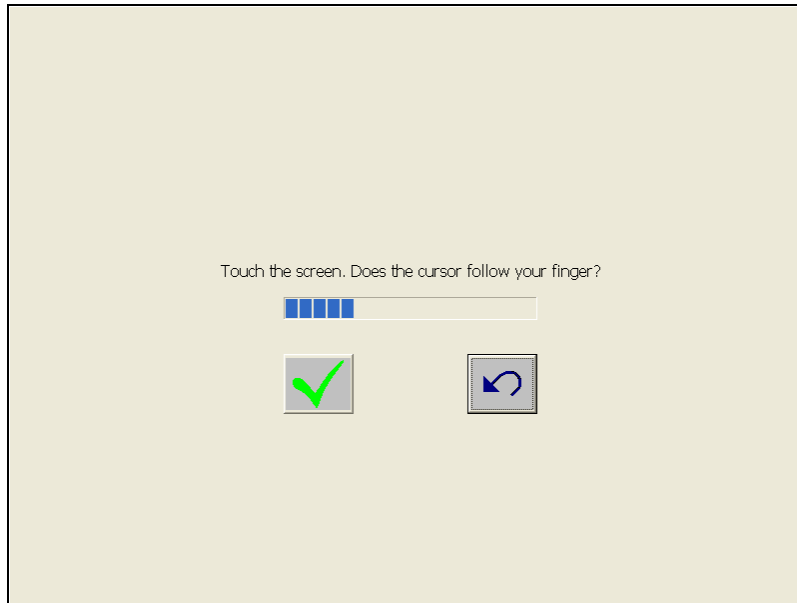
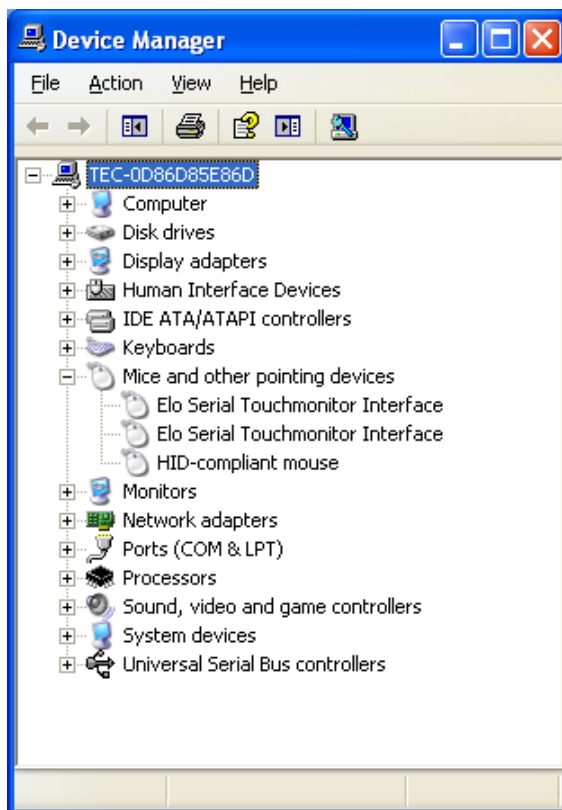After complete the calibration to touch panels, open Device Manager to confirm the touch panel driver has been installed one more. Make sure that double "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.

5.3. Clearing the warning message on Control Panel of Touch Panel driver
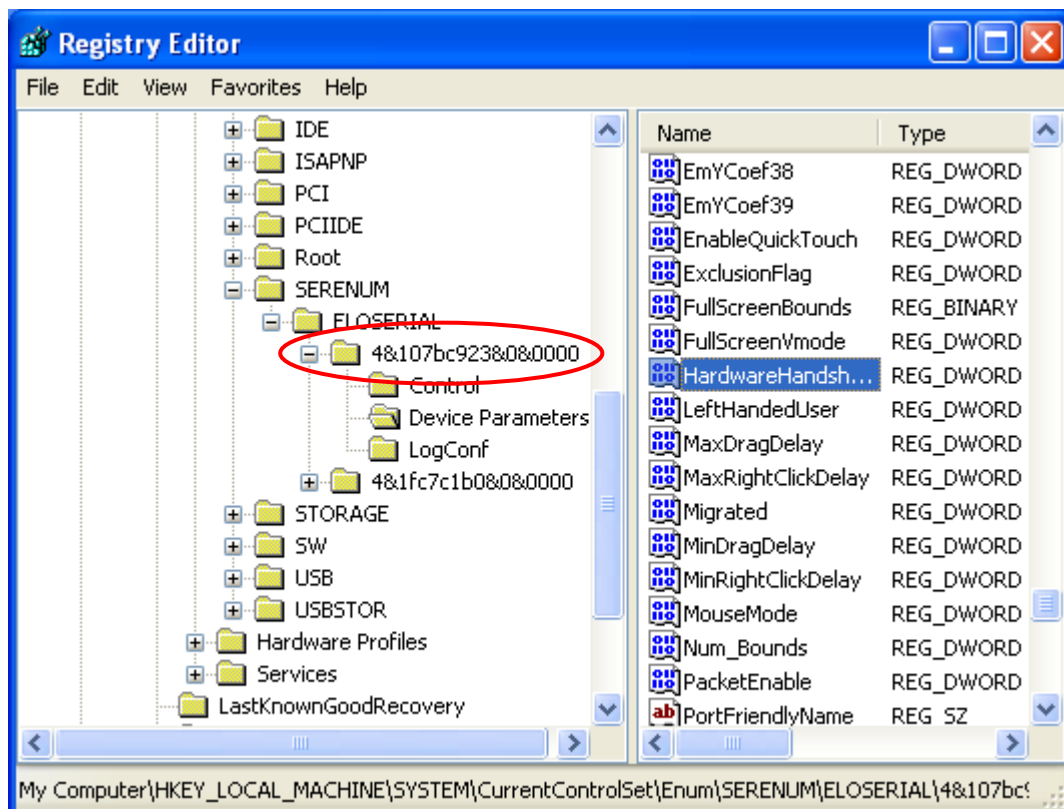
As a default, the ST-B10 shows the following warning on the control panel of the touch panel.
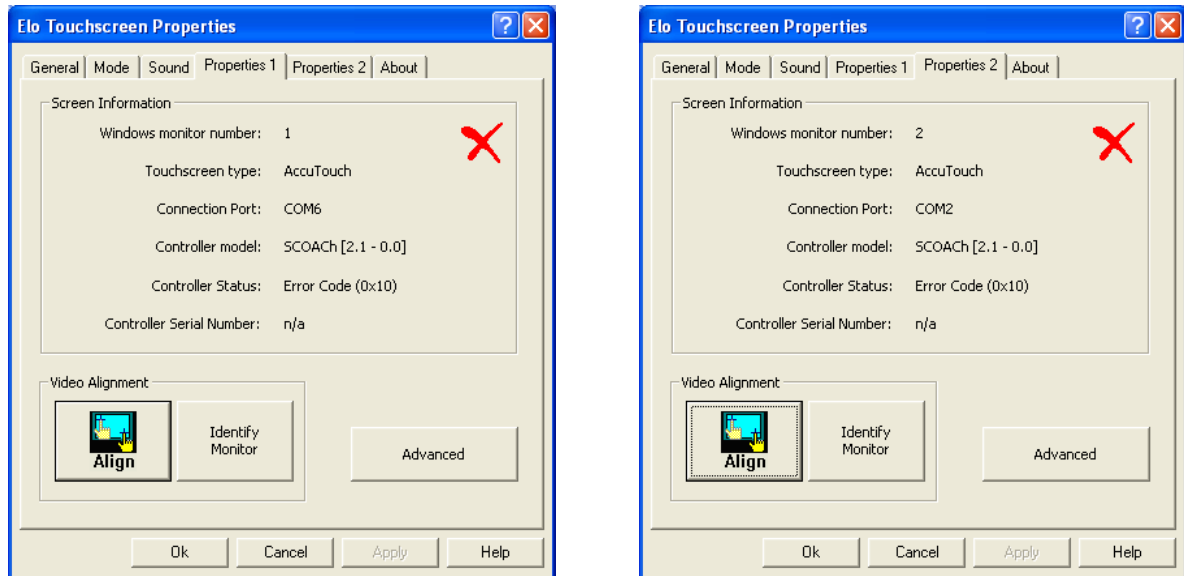
You have to change a value of the next registry to use it definitely.
¥HKEY_LOCAL_MACHINE¥SYSTEM¥CurrentControlSet¥Enum¥SERENUM¥ELOSERIAL¥xxx
xx¥DeviceParameters¥**HardwareHandshaking**

Note: The part of above "xxxxx" is a monitor ID. Refer to the following window.

Default is 1 (Left-hand figure). Change it to 0(Right-hand figure). After that, please reboot ST-B10.
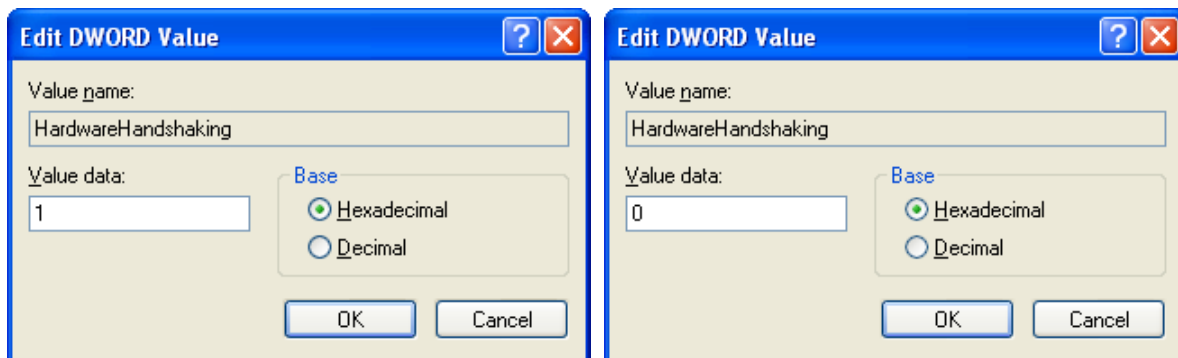
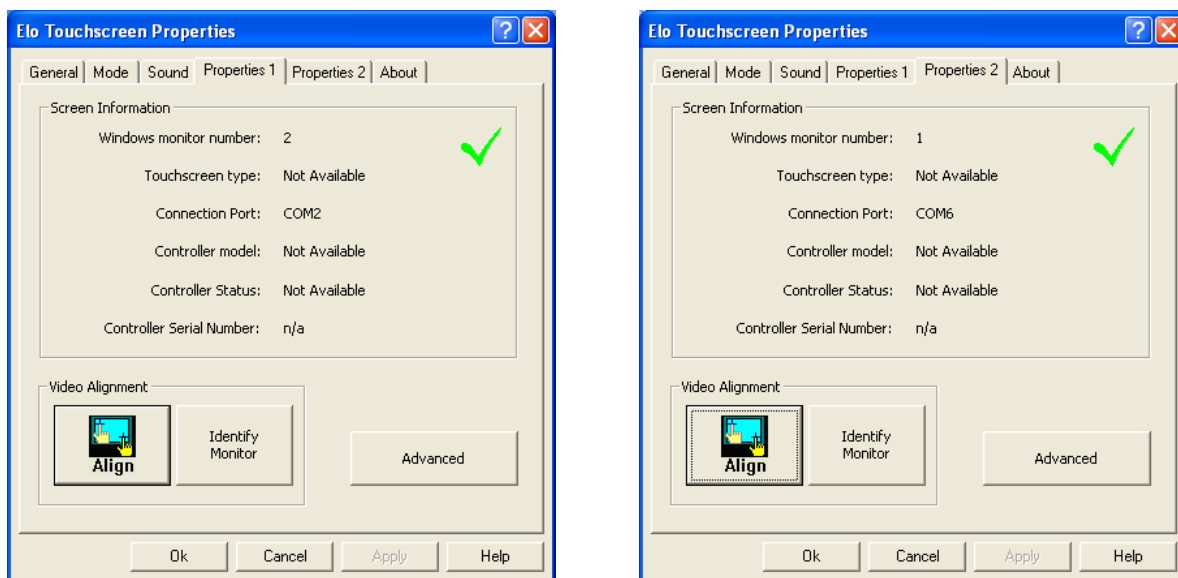In "Properties1" and "Properties2" tab, there are three items to become the "Not Available" indication after changing registry setting.

Touchscreen Type
Controller model
Controller Status

It mean, the reason is because it stopped the acquisition / an indication function of the hardware information by a setting change of the registry, and there is not the influence in touch panel performance.

5.4. Calibration for Touch Panel

When you changed the resolution / indication method of the display via VIA Graphic Driver, it is recommended that you set the touch panel function using the "Alignment" function.

Because the touch panel driver does not adjust itself automatically when the setting of graphic is changed. Otherwise, the wrong click point of the touch panel might happen unless you do this procedure.

There are two ways to calibrate for touch panel. Please select an easy-to-use way.
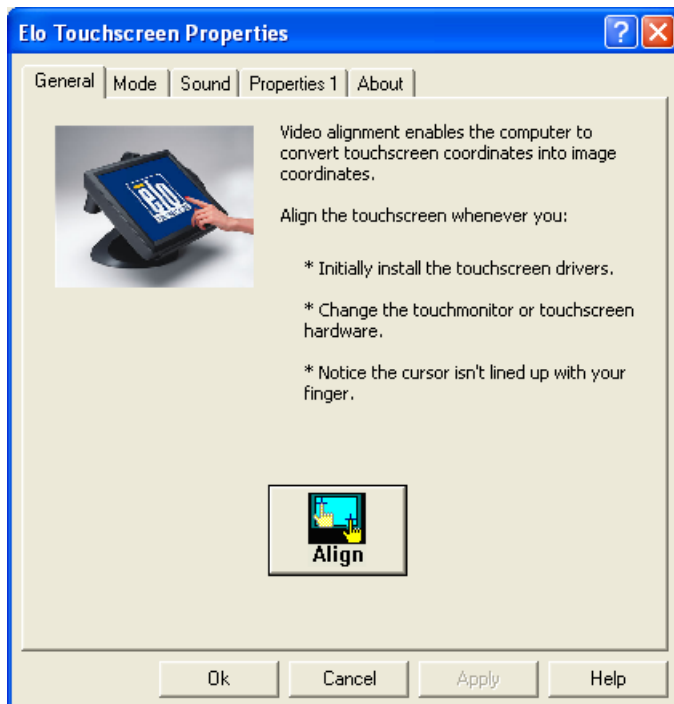
1. Calibration for touch panel to start from task tray

Right-click on the "Elo Touchscreen" from task tray, the following menu appears. Click on the "Align…" menu.
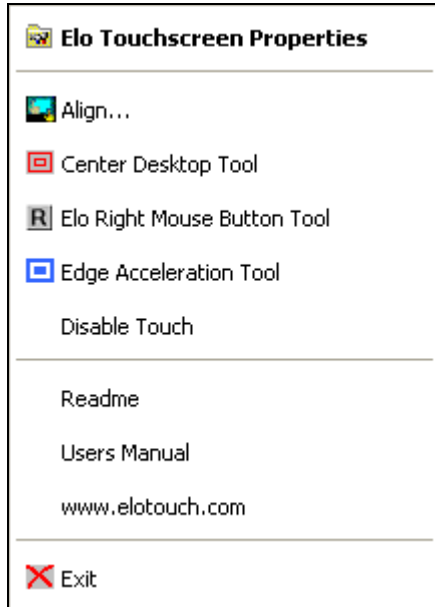
2. Calibration for touch panel to start from control panel

Open "Elo Touchscreen" from "Control Panel", following window appears. Then, select the "General" tab and click on the "Align" button.

The following calibration screen appears. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)
Note:
The calibration screen appears one time each a touch panel. The calibration screen appears two times at two touch panels.
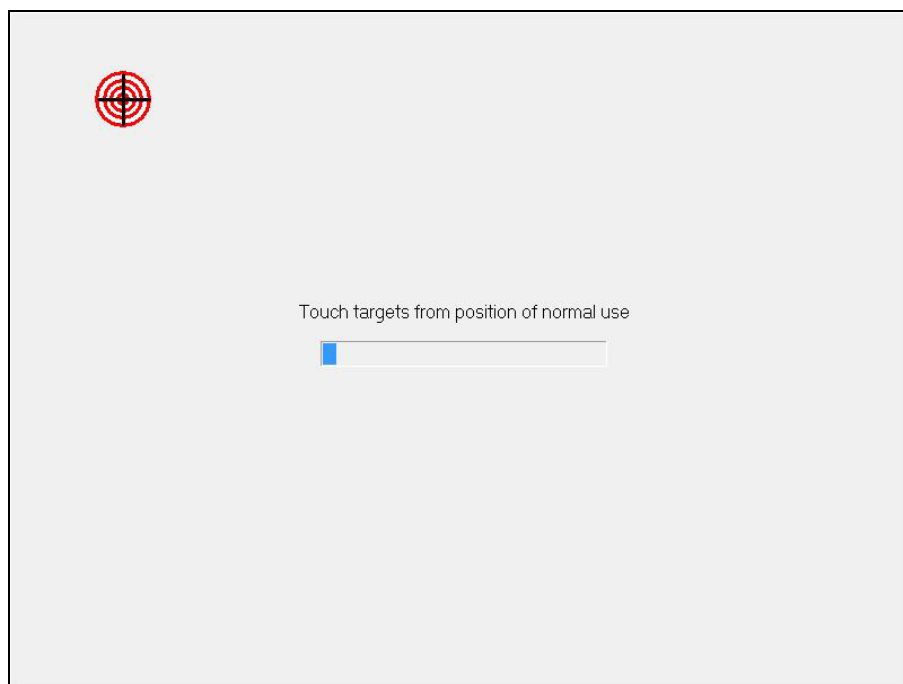In the case of Dual Display, please refer to the table as below.

Remainder to use dual touch panel

Display modes	Remainder of Calibration
Clone	The calibration screen appears on both panels two times. When you calibrate touch panels, sequence of calibration does not make any difference.
Extended desktop	The calibration screen appears Primary display. After that, the screen appears Secondary display.

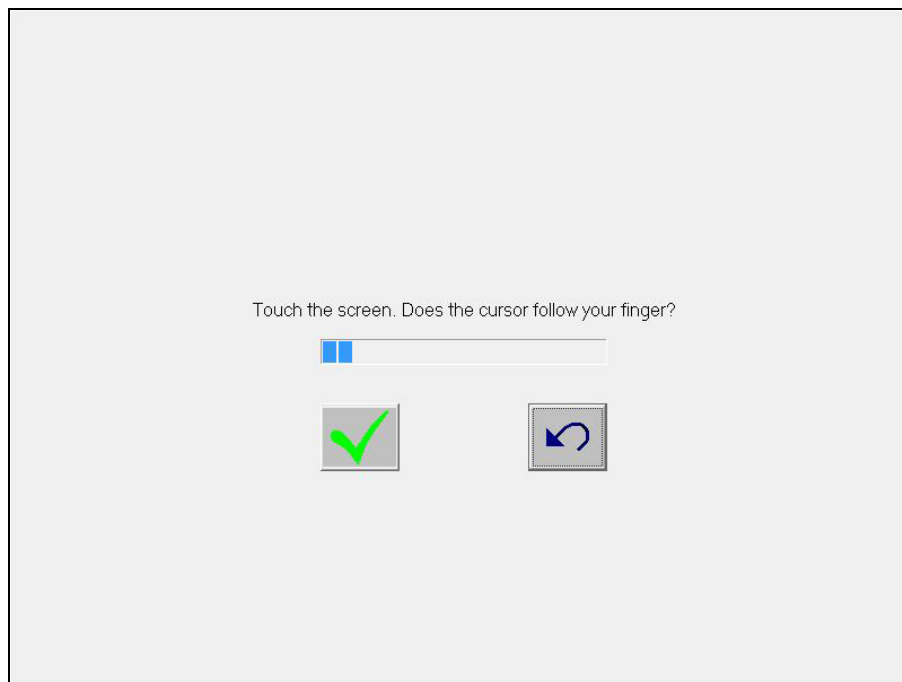Remainder to use single touch panel and another non-touch display

Display modes	Remainder of Calibration
Clone	The calibration screen appears both monitors. Please calibrate touch panel.
Extended desktop	The calibration screen appears Primary display. If Secondary display is touch panel, press "Esc" key from keyboard. The calibration screen appears Secondary display.

Touch targets from position of normal use

After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration.

If using dual touch panel, the calibration screen re-appears.

Touch the screen. Does the cursor follow your finger?

6. Installation for i-Button Driver

We can not redistribute this installation driver.
Therefore, if you need the driver, you have to download the driver from following site.

http://www.maxim-ic.com/products/ibutton/software/tmex/
Note: This URL was written on 2010/01/15, and current version is V4.02.

Run the "install_1_wire_drivers_x86_v402.msi" which you downloaded.
The "License Agreement" window appears. Confirm the contents. If you agree, check the "I accept the terms in the License Agreement" check box and click on the "Install" button.
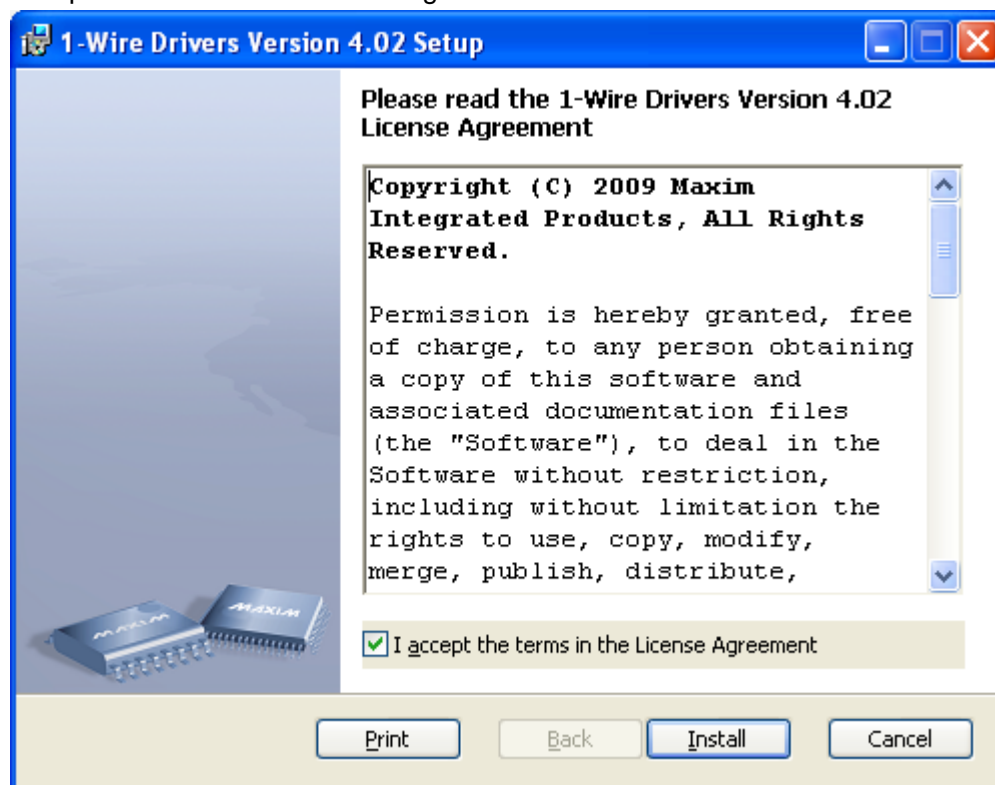
After completion of the installation, the following window appears. Click on the "Finish" button. Then, please reboot ST-B10.
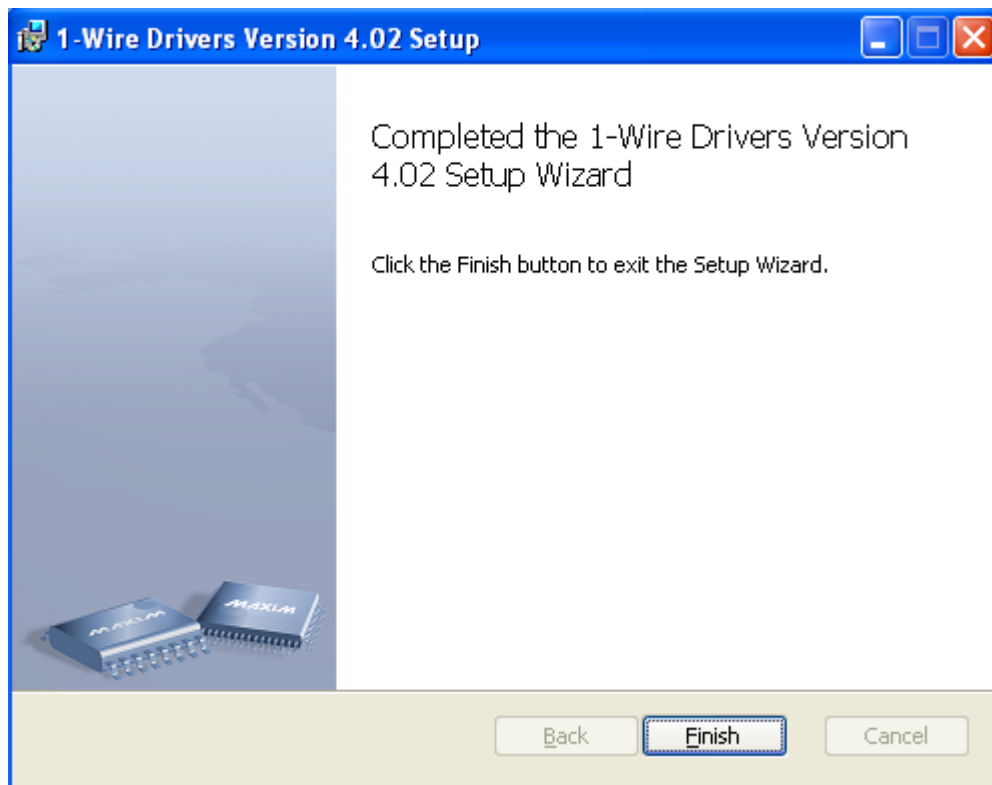
Open Device Manager to confirm the iButton has been installed. Make sure that "USB Host Adapter for 1-Wire Network using WinUSB" is registered under the "1-Wire" icon.
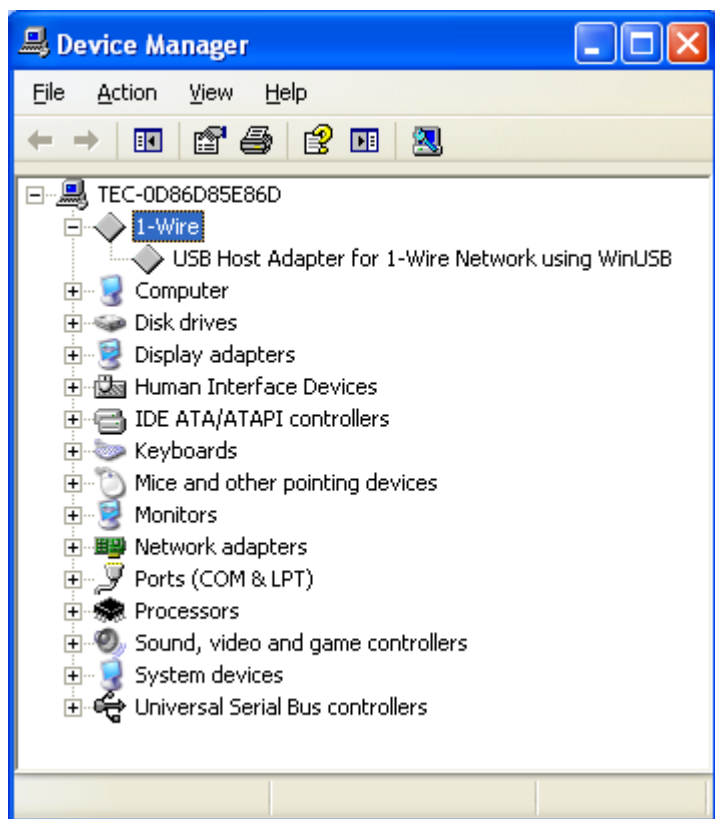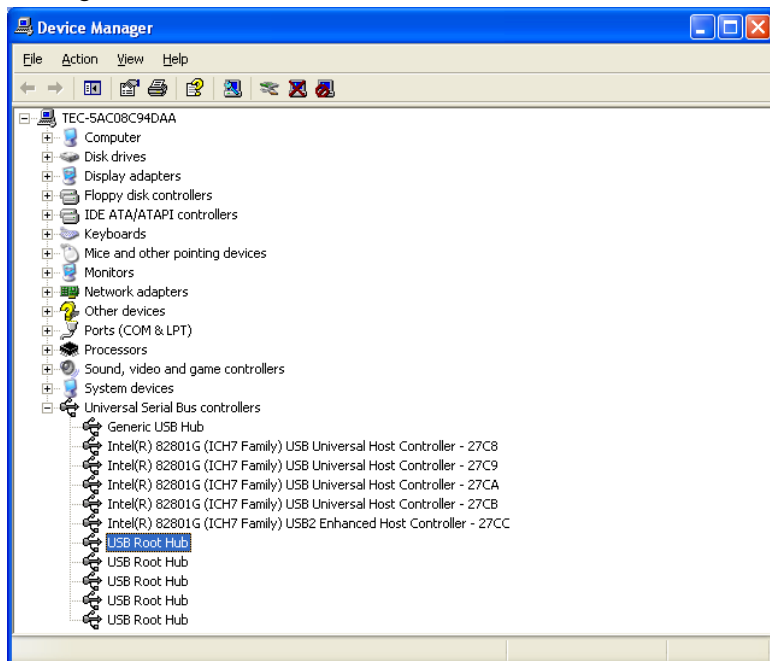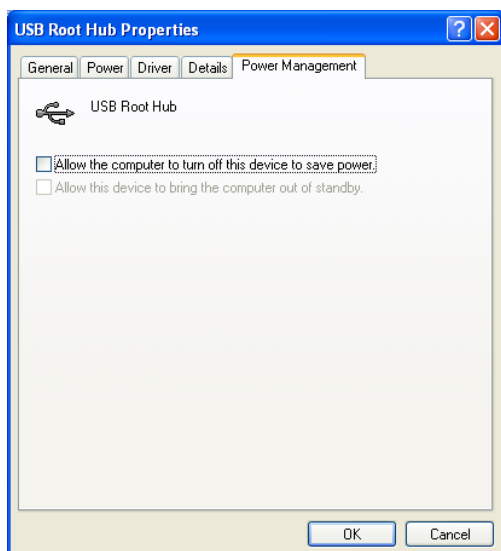
7. Notice and Limitation

7.1. Notice

7.1.1. About Power management of USB-HUB

Open the property of the "USB Root Hub" under the "Universal Serial Bus controllers" of Device Manager.

Click on the "Power Management" tab. Uncheck the "Allow the computer to turn off this device to save power" check box, and click on the "OK" button.

About all the "USB Root Hub", you have to operate the above.

### 7.1.2. **About Setting for Display Resolution**

When setting the display resolution, you may be able to select the illegal resolution that is outlying resolution.
If you set the illegal resolution, following problem may occur.

➢ You can set the resolution, but the "Out of Range" appears in the display.

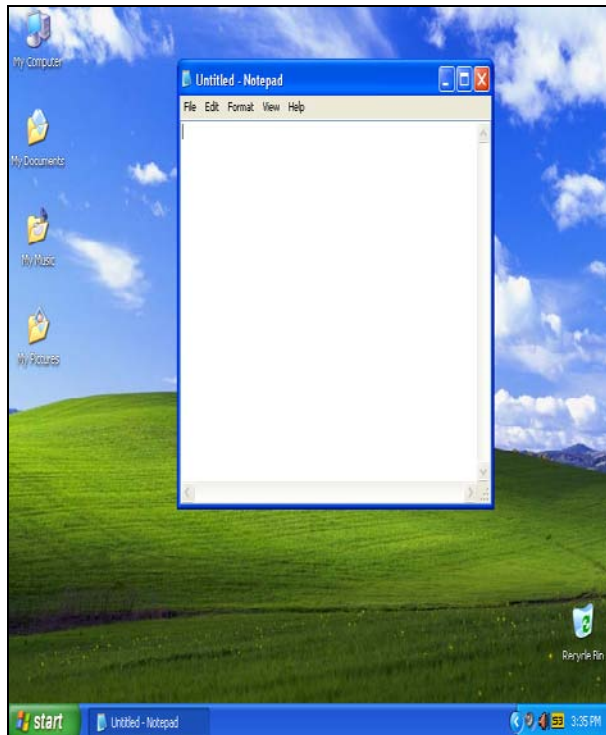➢ The following window appears. Then, you cannot set the resolution.

➢ Display shows new resolution. However, the display is as follow.
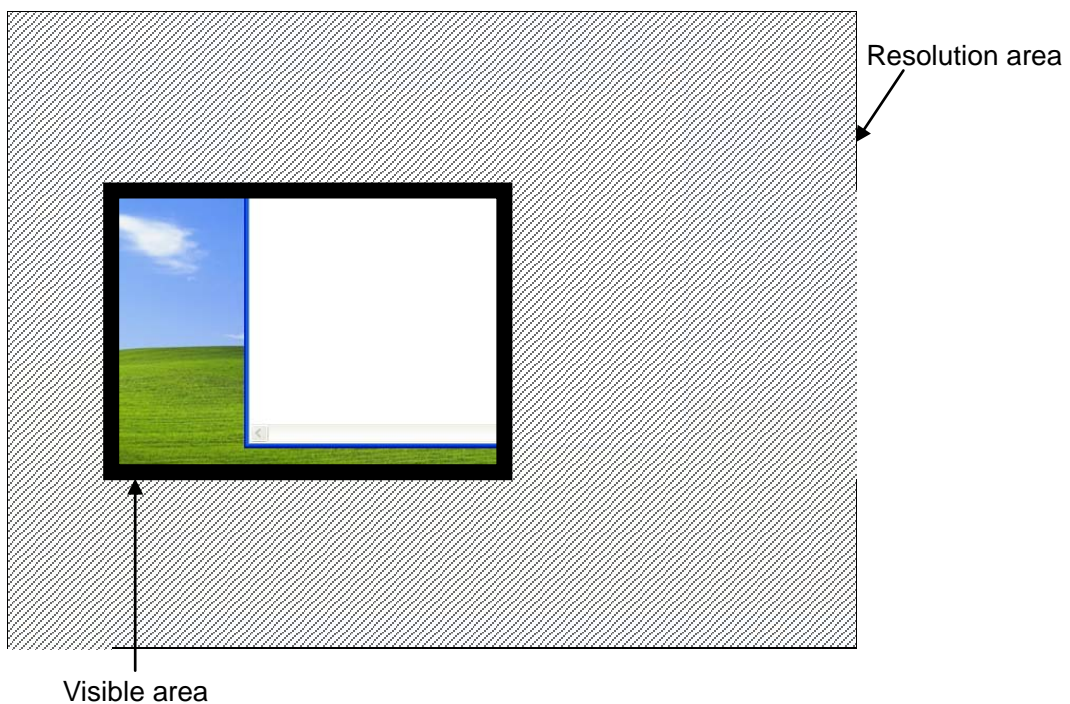
Visible area
(You can look in the "Visible area". The area can move the inside of the "Resolution area" by using mouse.)

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> Display shows new resolution. However, screen ratio is wrong as follow.

When some kind of problems occurs, set the correct resolution.

7.1.3. Case to use the TVS Display

If you use the display made by TVS, following problem may occur.

Case to use the LP15

➢ During boot up the ST-B10, the Windows start screen logo may appear shifted in different position.

7.2. Limitation

7.2.1. Limitation about Wake on Touch

Wake on Touch function can not be used on the ST-B10 of the VGA display. The LVDS display can use the Wake on Touch function.