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

TOSHIBA TEC CORPORATION

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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

Windows	Embedded for Po	oint of Service			×
Optional S Select ti	oftware Compon he optional softwar	ent Settings e components you w	ould like to insta	a.	t
Add	itional Driver Suppo rnet Information Ser guage Support al Management Sup vagement Client Sup dows Media Player	rt vices (IIS) port 9.0			
Description:	Includes device o by Windows XP S	trivers needed to aut SP2. < Back	omatically insta	II all computer p Space n Space an	eripherals supported equired on C: 395 MB vailable on C: 49991 MB Cancel

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.

🐻 Windows Embedded POSReady 2009	x
Storage Drivers	Windows Embedded POSReady 2009
No <u>A</u> dditional Storage Drivers are Required Setup will use storage drivers from the POSReady installation media.	Install storage drivers obtained from the hardware manufacturer if they are required.
O Install Third-Party Storage Drivers	
Setup will install additional drivers that you provide from your hardware manufacturer.	e
< <u>B</u> ack <u>N</u> ext >	Cancel

"Installation Type" window appears. Please select "Custom" radio button and click on the "Next" button.

🐻 Windows Embedded POSReady 2009	×
Installation Type	Windows Embedded
 Lypical (1750 MB) This is the recommended installation type. Includes the .NET Framework 2.0, POS for .NET 1.12, and enables system-managed virtual memory. Minimum (760 MB) Includes the minimum required components and disables virtual memory disk space. Custom Enables you to select optional components and to manually configure virtual memory. 	Select from the available installation types. Optional components can be modified after Setup is complete by using Add or Remove Programs in the Control Panel.
< <u>B</u> ack <u>N</u> ext >	Cancel

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".

🐻 Windows Embedded POSReady 2009	×
Optional Components 💦 Wir POS	ndows Embedded Ready 2009
Net Framework 2.0 Accessories and Utilities Additional Drivers Fax Services Indexing Service Internet Information Services (IIS) Management and Monitoring Tools Message Queuing Networking Services POS for .Net 1.12 Description: Includes device drivers needed during the installation of computer	Select the optional software components you want to install. Optional components can be modified after Setup is complete by using Add or Remove Programs in the Control Panel.
peripherals. Space required: 1063 MB	
< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

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.

🐻 Add or Rem	nove Programs	- 🗆 🔀
	Currently installed programs: Show up <u>d</u> ates Sort by: Name	~
Remove	Microsoft .NET Framework 2.0 Service Pack 2 Size 1	85.00MB
Programs	Click here for support information. Used	<u>rarely</u>
1	To change this program or remove it from your computer, Change click Change or Remove.	Remove
Add <u>N</u> ew	P Microsoft POS for .NET 1.12 Size	2.19MB
Programs	🔀 Microsoft Visual C++ 2005 Redistributable Size	5.21MB
6		
Add/Remove Windows		
Components		

Check "Additional Drivers" from "Components:" check box. Click on the "Next" button.

Windows Embedded POSReady 2009 Components Wizard	<u> </u>
Windows Components You can add or remove components of Windows XP.	t
To add or remove a component, click the checkbox. A sha part of the component will be installed. To see what's includ Details.	ded box means that only led in a component, click
Components:	
🗹 📻 Accessories and Utilities	20.6 MB 🔼
Additional Drivers	80.5 MB 🔳
🗆 💕 Fax Services	3.9 MB
🗌 💬 Indexing Service	14.1 MB
Binternet Information Services (IIS)	5 4 MB 🔛
Description: Includes device drivers needed during the inst peripherals.	allation of computer
Total disk space required: 80.8 MB	Details
Space available on disk: 17770.8 MB	D'erdiis
< Back	Next > Cancel

During installation for the component, you need "Windows Embedded POSReady 2009 Installation CD". Insert "POSReady installation CD", and click on the "OK" button.

Files Nee	ded	X
۲	The file 'driver.cab' on Windows Embedded POSReady 2009 Installation CD is needed.	OK Cancel
	Type the path where the file is located, and then click OK.	
	Copy files from:	Browse

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.

VIA HyperionPro Setup Package 5.24A	
License Agreement Please read the following license agreement carefully.	Hyperion
Press the PAGE DOWN key to see the rest of the agreement.	
VIA SOFTWARE LICENSE AGREEMENT	<u> </u>
Please read carefully before you download, install, or use any VIA SOFTWARE.VIA SOFTWARE means the software program you are currently trying to download, and all related updates supplied by VIA Technologies, Inc. ("VIA").	
By clicking on the "I AGREE" button, and by downloading and installing the VIA SOFTWARE, you accept all the terms and conditions of this Agreement. If you do not agree to the terms and conditions of this Agreement, do not click the "I AGREE"	
C I Don't Agree	
<u>Back</u>	Next> Cancel

The "Install List:" window appears. Click on the "Next" button.

VIA HyperionPro Setup	Package 5.24	A	
Install List: To choose the component	nts, the Setup will in	nstall them.	Hyperion
You can select several of VIA Chipsets INF	all components to Update Utility V3.1 IDE Driver Packag	install. QA e V2.80A Update chipsets drivers	on INF Files of VIA s to load proper system
Space Required: Space Available: InstallShield	C: C:	214 KB 16977080 KB < <u>B</u> ack <u>N</u> er	xt > <u>C</u> ancel

The "Installing Components List:" window appears. Click on the "Next" button.

VIA HyperionPro Setup Package 5.24A	K
Installing Components List: Review setting before installing components.	
Setup has enough information to start installing the components. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin installing components.	
Current setting:	
VIA Chipsets INF Update Utility V3.10A: Update INF Files of VIA chipsets to load proper system drivers	
VIA PATA/SATA IDE Driver Package V2.80A: VIA PATA/SATA IDE Controller Driver	
InstallShield	-
< <u>B</u> ack Cancel]

The "Installing Status:" window appears. Click on the "Next" button.

VIA HyperionPro Setup Package 5.24A	
Installing Status: Following information to show installing status.	rion
The following information will tell you whether or not the components is installed succes	sfully .
Current result:	
SETUP LOG: DATE 11-30-2009 TIME 13:09:07 Installed components : VIA Chipsets INF Update Utility V3:10A VIA PATA/SATA IDE Driver Package V2:80A	
Fail to Installed components : None	 •
	>
InstallShield	
< <u>B</u> ack <u>N</u>ext≻	Cancel

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.

VIA/S3G UniChrome Family Win2K/XP/Server2003 Display Setup	×
Setup Status	
VIA/S3G UniChrome Family Win2K/XP/Server2003 Display is configuring your new software installation.	
Installing driver	
InstallShield	
Cancel]

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

VIA/S3G UniChrome Family	y Win2K/XP/Server2003 Display Setup
	InstallShield Wizard Complete Setup has finished installing VIA/S3G UniChrome Family Win2K/XP/Server2003 Display on your computer.
	K Back Finish Cancel

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.

WinSetu	ıp 🛛 🔀
(į)	The installation is completed
	<u>(ОК</u>]

Open Device Manager to confirm the Network driver has been installed. Make sure that "VIA Rhine II 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.

Realtek	High Definition Audio Driver - InstallShield Wizard 🛛 🛛 🔀
2	Welcome to the InstallShield Wizard The InstallShield Wizard will install Realtek High Definition Audio Driver on your computer
	Do you want to continue the installation of new driver ?
	Yes <u>N</u> o

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.

Restarting Windows
Setup has finished copying files to your computer. Before you can use the program, you must restart your computer.
Select one of the following options and click OK to finish setup.
 Yes, I want to restart my computer now. No, I will restart my computer later.
ОК

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
TETOT ADD	12-inch	800×600
(I)/DS Elo Touch Papel)	15 inch	800×600
		1024×768
TETOT ADD	12-inch	800×600
(VGA Ele Touch Papel)	15 inch	800×600
		1024×768
TETET DOA	12-inch	800×600
(VCA Ele Teuch Banel)	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		TFTST-A20 VGA 12-inch	TFTST-A20 VGA 15-inch		TFTST-B20 VGA 12-inch	TFT: VGA	ST-B20 15-inch
	Resolution	800×600	800×600	1024×768	800×600	800×600	1024×768
TFTST-A20 LVDS 12-inch	800×600	0	0		0	0	
TFTST-A20	800×600	Δ	0		\bigtriangleup	0	
LVDS 15-inch	1024×768			0			0

Two displays shows the different image (Extended Desktop mode)

Display		TFTST-A20 VGA 12inch	TFTST-A20 VGA 15inch		TFTST-B20 VGA 12inch	TFT: VGA	ST-B20 15inch
	Resolution	800×600	800×600	1024×768	800×600	800×600	1024×768
TFTST-A20 LVDS 12inch	800×600	0	0	0	0	0	0
TFTST-A20	800×600	Δ	0	0	Δ	0	0
LVDS 15inch	1024×768	Δ	0	0	Δ	0	0

In Limitation of display function, $\, \bigcirc \,$ or $\, \bigtriangleup \,$ stands for as follow.

 \bigcirc : You can use dual display.

 \triangle : 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)

Two displays show the different image (Extended Desktop mode)

Primary display	Secondary display
Decide the second	

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		4.1.1 Setup for Single Display connected via LVDS
(LCD)		4.1.1 Setup for Single Display connected via LVDS
VGA		4.1.2 Setup for Single Display connected via VCA
(CRT)		4.1.2 Setup for Single Display connected via VGA
LVDS	VGA	4.2.4 Setup for Duel Display (LVDS is for Drimery display)
(LCD)	(CRT)	4.2.1 Setup for Dual Display (LVDS is for Primary display)
VGA	LVDS	4.2.2 Setup for Dual Diaplay (VCA is for Primary diaplay)
(CRT)	(LCD)	4.2.2 Setup for Duar Display (VGA is for Phinary display)

4.1. Setup for Single Display

Display-connection	Reference Section
LVDS	4.1.1. Satur for Single Diaplay connected via LVDS
(LCD)	4.1.1 Setup for Single Display connected via LVDS
VGA	4.1.2 Setup for Single Display connected via VCA
(CRT)	4. I.2 Setup for Single Display connected via VGA

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

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.

S3Disp	lay 🔀
?	The new settings will now be applied. This may take a few seconds, during which your screen might flicker. If the new settings do not appear correctly, wait 15 seconds, and your previous settings will be restored.
	OK Cancel

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

S3Display					
Your settings have been applied. Do you want to keep the new settings?					
13					
Yes No					

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.

S3Tray	Plus 🛛 🔀
?	Do you want to keep your new display settings?
	15
	Yes <u>N</u> o

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.

S 3D is p	lay
?	The new settings will now be applied. This may take a few seconds, during which your screen might flicker. If the new settings do not appear correctly, wait 15 seconds, and your previous settings will be restored.
	OK Cancel

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

S3Display					
Your settings have been applied. Do you want to keep the new settings?					
13					
Yes No					

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.

S3Tray	Plus 🔀
2	Do you want to keep your new display settings?
	15
	Yes No

4.2. Setup for Dual Display

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

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

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.

	Display <u>M</u> odes	•
53 S3Display	53 S3Display	Þ
🖌 CRT	53 S3Rotate	•
	53 S3Gamma Plus	
· Eco	53 S3Info Plus	
Contraction of the	53 S3Overlay	
A Managara M	options	
	📃 📃 Display Properties	Settings
	1 About	
COLOR ALLS	🗙 E <u>x</u> it	

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

S3Display	×
Your settings have been applied. Do you want to keep the new settings	?
13	
Yes <u>N</u> o	

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.

800x600 (16 bpp) 1024x768 (16 bpp)		Display <u>1</u> Modes Display <u>2</u> Modes	
 800x600 (32 bpp) 1024x768 (32 bpp) 		 Display 1 Utilities Display 2 Utilities 	
		S3 S3Display S3 S3Rotate S3 S3Gamma Plus S3 S3Info Plus S3 S3Overlay	
	ray Plus	 Options Display Properties Settings About 	
	S31	🗶 Exit	53

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

S3Tray	Plus 🔀				
2	Do you want to keep your new display settings?				
15					
	Yes No				

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.

S3Tray	Plus 🔀
?	Do you want to keep your new display settings?
	15
	Yes No

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.

		Display <u>M</u> odes	
53 S3Display		😏 S3Display 🔹 🕨	
Y COT		53 S3Rotate	
		53 S3Gamma Plus	
• Eco		53 S3Info Plus	М
Contraction of the second		53 S3Overlay	16
	S	📝 Options	1
	Plu	📃 Display Properties Settings	2
	ray	() A <u>b</u> out	
	S37	🗙 E <u>x</u> it	
			53

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)".

Display 1: S3 Screen Toys on Plug and Play Monitor 💦 🏾 🕐 🗙
😼 S3Display 📝 Options
2.01.65-0626
Display Devices:
CRT LCD Set as primary
LCD: Generic Digital Flat Panel (800x600) What's This?
Expansion:
Panel type:
800 × 600 TFT
OK Cancel Apply

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.

S3Display	<
Your settings have been applied. Do you want to keep the new settings?	I
13	
Yes No	

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.

	Display Properties 🔹 💽 🔀
	Themes Desktop Screen Saver Appearance Settings
	Drag the monitor icons to match the physical arrangement of your monitors.
	1 2
	Display:
	2. Plug and Play Monitor on VIA/S3G UniChrome Pro IGP
	Screen resolution
	Less More Highest (32 bit)
	800 by 600 pixels
	Use this device as the primary monitor.
≮	Extend my Windows desktop onto this monitor.
	Identify Iroubleshoot Advanced
	OK Cancel Apply

(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.



S3Tray	Plus 🛛
?	Do you want to keep your new display settings?
	15
	Yes <u>N</u> o

(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.

800x600 (16 bpp) 1024x768 (16 bpp)		Display <u>1</u> Modes Display <u>2</u> Modes	
 800x600 (32 bpp) 1024x768 (32 bpp) 		 Display 1 Utilities Display 2 Utilities 	
	Plus	 S3Display S3Rotate S3Gamma Plus S3Info Plus S3Overlay Options Display Properties Settings 	
	S3Tray	About Exit	53

S3Tray	Plus 🛛
?	Do you want to keep your new display settings?
	15
	Yes No

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.



S3Tray	Plus 🔀
?	Do you want to keep your new display settings?
	15
	Yes No

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.

	Display <u>M</u> odes	•
53 S3Display	53 S3Display	Þ
🖌 CRT	53 S3Rotate	•
	53 S3Gamma Plus	
· Eco	53 S3Info Plus	
Contraction of the	53 S3Overlay	
A Managara M	options	
	📃 📃 Display Properties	Settings
	1 About	
COLOR ALLS	🗙 E <u>x</u> it	

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

S3Display
Your settings have been applied. Do you want to keep the new settings?
13
Yes No

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.

800x600 (16 bpp) 1024x768 (16 bpp)		Display <u>1</u> Modes Display <u>2</u> Modes	
 800x600 (32 bpp) 1024x768 (32 bpp) 		 Display 1 Utilities Display 2 Utilities 	
		 53 S3Display 53 S3Rotate 53 S3Gamma Plus 53 S3Info Plus 53 S3Overlay 	
	S3Tray Plus	 Options Display Properties Settings About Exit 	
		V 🔊 🖏	53

S3Tray	Plus 🔀
?	Do you want to keep your new display settings?
	15
	Yes No

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.



S3Tray	Plus 🔀
?	Do you want to keep your new display settings?
	15
	Yes No

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.

and the second		Display <u>M</u> odes	
53 S3Display		😏 S3Display 🔹 🕨	
V CRT		53 S3Rotate	
		53 S3Gamma Plus	
• LCD		53 S3Info Plus	63
1-1940 History		53 S3Overlay	ji si
Altonic, N	ns	Diptions	0
	Plu	📃 Display Properties Settings	
	ray	() About	
	S31	🗙 E <u>x</u> it	
			23

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)".

Display 1: S3 Screen Toys on Plug and Play Monitor 💦 🔀		
🛐 S3Display 📝 Options		
2.01.65-0626		
Display Devices:		
CRT Set as primary LCD		
which a miss		
CRT: Mitsubishi RDT1710LM		
No settings for this device.		
OK Cancel Apply		

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.

S3Display	<
Your settings have been applied. Do you want to keep the new settings?	I
13	
Yes No	

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.

	Display Properties 🔹 💽 🔀					
	Themes Desktop Screen Saver Appearance Settings					
	Drag the monitor icons to match the physical arrangement of your monitors.					
	1 2					
	Display:					
	Color quality Screen resolution Color quality					
	Less More Highest (32 bit)					
	800 by 600 pixels					
	Use this device as the primary monitor.					
\triangleleft	Extend my Windows desktop onto this monitor.					
	Identify Iroubleshoot Advanced					
	OK Cancel Apply					

(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.



S3Tray	Plus 🛛				
Do you want to keep your new display settings?					
15					
	Yes <u>N</u> o				

(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.

800x600 (16 bpp) 1024x768 (16 bpp)		Display <u>1</u> Modes Display <u>2</u> Modes	
 800x600 (32 bpp) 1024x768 (32 bpp) 		 Display 1 Utilities Display 2 Utilities 	-
		53 S3Display 53 S3Rotate 53 S3Gamma Plus 53 S3Info Plus 53 S3Overlay	
	8Tray Plus	 Options Display Properties Settings About 	「「「「「
	S	¥ E⊻it	33

S3Tray	Plus 🛛			
?	Do you want to keep your new display settings?			
15				
	Yes No			

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.



S3Tray	Plus 🔀					
Do you want to keep your new display settings?						
15						
	Yes No					

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.

WinZip Self-Extractor - XPU-	4.8.7b.exe	×
To unzip all files in XPU4.8.7b.exe to the specified folder press the Unzip button.		Unzip
Unzip to folder:		Run WinZip
ystems\Elo Universal Driver 487b	Browse	Close
Overwrite files without prompting	About	
When done unzipping open: .\Elosetup.exe		Help

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.

Elo Touchscreen Setup (Version 4.8.7b)			
TOUCHSYSTEMS	Pick the default language for the Elo Touchscreen Universal Driver package. All Elo touchscreen applications will be displayed in the language selected below.		
	Next > Cancel		

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

Elo Touchscreen Setup (Version 4.8.7b)			
TOUCHSYSTEMS	Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Install Serial Touchscreen Drivers Install USB Touchscreen Drivers		
	< Back Next > Cancel		

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.

Elo Touchscreen Setup (Version 4.8.7b)		
Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices. During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices. Click Next to continue. Image: Auto-detect Elo touchscreens.		
< Back Next > Cancel		

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.

Elo Touchscreen Setup (Version 4.8.7b)			
	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.		
TOUCHSYSTEMS	COM1 COM2 COM3 COM4 COM5 COM6		
	Once you have selected a COM port, click Next to continue the installation.		
	< Back Next > Cancel		

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

Elo Touchscreen Setup (Version 4.8.7b)		×
BO TOUCHSYSTEMS	You have selected the COM ports listed below to use with your touchmonitor.	
interest in a construction of the construction	Click Next to complete the installation or click Back to change your selections.	

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors." check box, and click on the "Finish" button.

Elo Touchscreen Setup (Version 4.8.7b)	
G TOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen drivers and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.
ISTERS TANONYOTON	Calibrate Elo Touchscreen monitors.
	< Back Finish

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.

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?

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.

×
Unzip
Run WinZip
Close
About
Help

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

WinZip Self-Extractor 🛛 🛛
179 file(s) unzipped successfully
OK

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

Elo Touchscreen Setup (Ve	Elo Touchscreen Setup (Version 4.8.7b)	
BOUCHSYSTEMS	Pick the default language for the Elo Touchscreen Universal Driver package. All Elo touchscreen applications will be displayed in the language selected below.	
	Next > Cancel	

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

Elo Touchscreen Setup (Version 4.8.7b)	
TOUCHSYSTEMS	elcome to Elo Touchscreen Setup. is program will install the Elo Serial and USB uchscreen drivers on your computer. It is strongly commended that you exit all Windows programs ifore running this Setup program. Install Serial Touchscreen Drivers Install USB Touchscreen Drivers
	< Back Next > Cancel

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.

Elo Touchscreen Setup (Version 4.8.7b)	
Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices. During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices. Click Next to continue. Image: Auto-detect Elo touchscreens.	
< Back Next > Cancel	

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.

Elo Touchscreen Setup (Version 4.8.7b)	
BO TOUCHSYSTEMS	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.
101000 TOUCOUTOU	Once you have selected a COM port, click Next to continue the installation.
	< Back Next > Cancel

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

Elo Touchscreen Setup (Version 4.8.7b)		
B TOUCHSYSTEMS	You have selected the COM ports listed below to use with your touchmonitor. COM2 COM6 (Elo Driver Already Installed)	
	Click Next to complete the installation or click Back to change your selections.	
	< Back Next > Cancel	

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

Elo Touchscreen Setup (Version 4.8.7b)		
G TOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen drivers and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.	
estado tantanteratua	Calibrate Elo Touchscreen monitors.	
	< Back Finish	

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

Elo Touchscreen Properties	Elo Touchscreen Properties
General Mode Sound Properties 1 Properties 2 About	General Mode Sound Properties 1 Properties 2 About
Screen Information	Screen Information
Windows monitor number: 1	Windows monitor number: 2
Touchscreen type: AccuTouch	Touchscreen type: AccuTouch
Connection Port: COM6	Connection Port: COM2
Controller model: SCOACh [2.1 - 0.0]	Controller model: SCOACh [2.1 - 0.0]
Controller Status: Error Code (0×10)	Controller Status: Error Code (0x10)
Controller Serial Number: n/a	Controller Serial Number: n/a
Video Alignment Identify Align Advanced	Video Alignment Identify Align Advanced
Ok Cancel Apply Help	Ok Cancel Apply Help

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.

Edit DWORD Value	? 🛛	Ì	Edit DWORD Value	?	×
Value <u>n</u> ame: HardwareHandshaking ⊻alue data: 1	Base Hexadecimal Decimal OK Cancel		Value <u>n</u> ame: HardwareHandshaking ⊻alue data: 0	Base <u>H</u>exadecimal <u>D</u>ecimal OK Cancel	

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

Elo Touchscreen Properties	Elo Touchscreen Properties
General Mode Sound Properties 1 Properties 2 About	General Mode Sound Properties 1 Properties 2 About
Screen Information Windows monitor number: 2 Touchscreen type: Not Available Connection Port: COM2 Controller model: Not Available Controller Status: Not Available	Screen Information Windows monitor number: 1 Touchscreen type: Not Available Connection Port: COM6 Controller model: Not Available Controller Status: Not Available
Controller Serial Number: n/a Video Alignment Identify Identify Monitor Align Advanced Ok Cancel	Controller Serial Number: n/a Video Alignment Identify Align Identify Monitor Advanced Ok Cancel

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.

🔯 Elo Touchscreen Properties				
Nign				
Center Desktop Tool				
R Elo Right Mouse Button Tool				
Edge Acceleration Tool				
Disable Touch				
Readme				
Users Manual				
www.elotouch.com				
🗙 Exit				

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.

Elo Touchscreen Propert	ies 🛛 🛛 🔀
General Mode Sound P	roperties 1 About Video alignment enables the computer to convert touchscreen coordinates into image
	coordinates. Align the touchscreen whenever you:
	 Initially install the touchscreen drivers. Change the touchmonitor or touchscreen hardware.
	* Notice the cursor isn't lined up with your finger.
	Align
Ok	Cancel Apply Help

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.

🐻 1-Wire Drivers Version 4.02 Setup		
	Please read the 1-Wire Drivers Version 4.02 License Agreement	
	Copyright (C) 2009 Maxim Integrated Products, All Rights Reserved.	 III
	Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute,	>
	Print Back Install Cance	3

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.

S3Tray Plus	
1	Unable to change your display.

> 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.)

> 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.