

User Manual TB-WH TB-CH

The color and the appearance may differ depending on the product, and the specifications are subject to change without prior notice to improve the performance.

BN46-00204A-02

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Copyright

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- An administration fee may be charged if either
 - (a) an engineer is called out at your request and there is no defect in the product (i.e. where you have failed to read this user manual).
 - (b) you bring the unit to a repair centre and there is no defect in the product (i.e. where you have failed to read this user manual).
- The amount of such administration charge will be advised to you before any work or home visit is carried out.

Icons used in this manual

The following images are for reference only. Real-life situations may
differ from what is shown in the images.

Symbols for safety precautions

Warning	A serious or fatal injury may result if instructions are not followed.
Caution	Personal injury or damage to properties may result if instructions are not followed.
\otimes	Activities marked by this symbol are prohibited.
	Instructions marked by this symbol must be followed.

Safety Precautions



The monitor images in this manual are for reference only. Monitor is sold separately.

Electricity and Safety





Do not use a damaged power cable or plug, or a loose power socket.

- An electric shock or fire may result.



Do not plug many products into the same power socket.

Otherwise, the socket may overheat and cause a fire.



Do not touch the power cable with wet hands.

• Otherwise, an electric shock may result.



Insert the power cable all the way in so it is not loose.

An unstable connection may cause a fire.



Ensure you connect the power cable to a grounded power socket. (type 1 insulated devices only).

• An electric shock or injury may result.



Do not bend or pull the power cable with force. Do not weigh the power cable down with a heavy object.

A damaged power cord may cause an electric shock or fire.

Do not place the power cable or product near heat sources.



An electric shock or fire may result.



If the power cable pins or power outlet is covered with a foreign substance (dust, etc.), wipe it off using a dry cloth.

Otherwise, a fire may result.

Caution



Do not unplug the power cable when the product is in use.

The product may become damaged by an electric shock.



Do not use the power cable for products other than authorized products supplied by Samsung.

• An electric shock or fire may result.



- Keep the power socket where the power cable is connected unobstructed.If any problem occurs in the product, unplug the power cable to completely
- cut the power to the product.

Power to the product cannot be completely cut off with the power switch.

Hold the plug when disconnecting the power cable from the power socket.



An electric shock or fire may result.

Installation and Safety

🔥 Warning



DO NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES.

• Otherwise, a fire may result.



Avoid installing the product in a narrow space with bad ventilation, such as a bookshelf or wall closet.

Otherwise, a fire may result due to an increased internal temperature.



Keep the plastic packaging bag for the product in a place that cannot be reached by children.

Children may suffocate.



Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.).

- The product may fall and break or cause a personal injury.
- Using the product in an area with excess vibration may damage the product or cause a fire.



Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.



An electric shock or fire may result.



Do not expose the product to direct sunlight, heat, or a hot object such as a stove.

Otherwise, the product lifespan may be reduced, or a fire may result.

Do not install the product within the reach of young children.

The product may fall and injure children.



Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

Caution



Take care not to drop the product when moving it.

Otherwise, product failure or personal injury may result.



When installing the product on a cabinet or shelf, make sure that the bottom edge of the front of the product is not protruding.

- The product may fall and break or cause a personal injury.
- Install the product only on cabinets or shelves of the right size.



Put down the product carefully.

• The product may fall and break or cause a personal injury.



Installing the product in an unusual place (a place exposed to a lot of fine particles, chemical substances or extreme temperatures, or an airport or train station where the product should operate continuously for an extended period of time) may seriously affect its performance.

Be sure to consult Samsung Customer Service Center (page 72) before installation if you want to install the product at such a place.

Operation and Safety





High voltage runs through the product. Do not attempt to disassemble, repair, or modify the product on your own.

- An electric shock or fire may result.
- Contact Samsung Customer Service Center (page 72) for repair.



Before moving the product, turn off the power switch and disconnect the power cable and all other connected cables.

Otherwise, the power cord may be damaged and a fire or electric shock may result.



If the product generates a strange noise, a burning smell, or smoke, remove the power cable immediately and contact Samsung Customer Service Center (page 72).

An electric shock or fire may result.



Do not let children hang from the product or climb on top of it.

• The product may fall, and your child may become injured or seriously harmed.



If the product falls or the exterior is damaged, power off the product, remove the power cable, and contact Samsung Customer Service Center (page 72).

• Otherwise, an electric shock or fire may result.



Do not put a heavy object, toy, or sweets on top of the product.

The product or heavy objects may fall as children try to reach for the toy or sweets resulting in a serious injury.



Do not drop objects on the product or apply impact.

• An electric shock or fire may result.



Do not move the product by pulling the power cable or any cable.

• Otherwise, the cable may be damaged and product failure, an electric shock or fire may result.



If a gas leakage is found, do not touch the product or power cable. Also, ventilate the area immediately.

- Sparks can cause an explosion or fire.

or fire may result.

product.

Otherwise, the cable may be damaged and product failure, an electric shock

Do not use or keep combustible spray or an inflammable substance near the

Do not lift or move the product by pulling the power cable or any cable.

An explosion or fire may result.



Ensure the vents are not blocked by tablecloths or curtains.

Otherwise, a fire may result from an increased internal temperature.



Do not insert a metallic object (a chopstick, coin, hair pin, etc.) or inflammable object (paper, match, etc.) into the vent or ports of the product.

- If water or any foreign substance enters the product, be sure to power off the product, remove the power cable, and contact Samsung Customer Service Center (page 72).
- Product failure, an electric shock or fire may result.



Do not place objects containing liquid (vases, pots, bottles, etc) or metallic objects on top of the product.

- If water or any foreign substance enters the product, be sure to power off the product, remove the power cable, and contact Samsung Customer Service Center (page 72).
- Product failure, an electric shock or fire may result.

Caution



Disconnect the power cable from the power socket if you do not plan on using the product for an extended period of time (vacation, etc.).

• Otherwise, a fire may result from accumulated dust, overheating, an electric shock, or electric leakage.

Do not put DC power adapters together.



Otherwise, a fire may result.

Remove the plastic bag from the DC power adapter before you use it.



• Otherwise, a fire may result.



Do not let water enter the DC power adapter or get the adapter wet.

- An electric shock or fire may result.
- Avoid using the product outdoors where it can be exposed to rain or snow.
- Be careful not to get the DC power adapter wet when you wash the floor.

Do not put the DC power adapter near to any heating apparatus.



Otherwise, a fire may result.



Keep the DC power adapter in a well-ventilated area.



Do not use humidifiers or stoves around the product.

• An electric shock or fire may result.



Store the small accessories used with the product out of reach of children.



Do not place heavy objects on the product.

• Product failure or personal injure may result.



Do not increase the volume too high when using headphones (earphones).

 Sound particularly at a higher volume could potentially affect long-term hearing.

1.1 Checking the Contents

1.1.1 Removing the Packaging

1 Open the packaging box. Be careful not to damage the product when you open the packaging with a sharp instrument.



2 Remove the styrofoam from the product.



- 3 Check the components and remove the styrofoam and plastic bag.
 - The appearance of actual components may differ from the image shown.
 - This image is for reference only.
- 4 Store the box in a dry area so that it can be used when moving the product in the future.

Preparations

1.1.2 Checking the Components

- Contact the dealer from whom you purchased the product if any item is missing.
 - The appearance of the components and items sold separately may differ from the image shown.

Components



Quick setup guide





(Not available in some locations)



Stand base



User manual



Power cable



Stand connector

DC power adapter

- Components may vary depending on the country.
- The stand base supplied with this product contains a circuit board. Care should be taken when handling the base.

Items sold separately



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The following items can be purchased at your nearest retailer.



LAN cable



D-SUB cable



USB cable



DVI cable



HDMI-DVI cable

1.2 Parts

1.2.1 Button



The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Icon	Description
٢	Power on or off the product.

Preparations

1.2.2 Reverse Side



The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Ports	Description
ι · · · · · · · · · · · · · · · · · · ·	Connect to a USB device.
	Connect to a network using the LAN cable.
	Connect to an audio output device such as headphones.
RGB OUT	Connect to the monitor using the D-SUB cable.
DVI OUT	Connect to the monitor using the DVI cable.
DC 14V IN	Connect to the DC power adapter.

Preparations

1.2.3 Right Side View

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The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Ports	Description	
0	Connect to an audio output device such as headphones.	
С С		
0	Connect to a microphone.	
MIC	Connect to a USB device.	
	Speaker (located on both sides).	

1.3 Installation

1.3.1 Reassembly

Ensure the monitor that will be connected to the stand complies with VESA standards.



Prepare a monitor that will be connected to the stand. Put a protective cloth or cushion on a flat surface. Next, place the monitor facing down onto the cloth or cushion.



Align the grooves on the monitor to the grooves on the stand connector. Then, fasten with screws.



Insert the stand base into the stand in the direction of the arrow.





Fasten the screw tightly (using a screwdriver or coin) into the bottom of the stand base.

After installing the stand, place the product upright.

- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.
 - The monitor images in this manual are for reference only. Monitor is sold separately.
 - Using screws longer than the supplied screws may cause internal product damage.
 - Do not use a monitor or screw that does not comply with VESA standards. Also, do not use excessive force when attaching the stand to the monitor. The product may get damaged or fall and cause personal injury. Samsung shall not be held liable for any damage or injury caused by using improper screws or attaching the wall-mount kit or desktop stand using excessive force.



Caution



Do not unfasten the lock or remove the fixing pin on the stand before attaching the stand base to the stand.

Do not hold the product upside down only by the stand.



1.3.2 Adjusting the Product Height

Adjust the stand height after attaching the stand to the monitor.



The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Remove the fixing pin.



Adjust the stand height as desired.



Unfasten the lock (outward direction) fixing the stand height.



Fasten the lock (inward direction) on the stand.

• Hold the top center of the product and adjust the height carefully.

Preparations

1.3.3 Anti-theft Lock

An anti-theft lock allows you to use the product securely even in public places. The locking device shape and locking method depend on the manufacturer. Refer to the user guide provided with your anti-theft locking device for details. The lock device is sold separately.



To lock an anti-theft locking device:

- 1 Fix the cable of your anti-theft locking device to a heavy object such as a desk.
- 2 Put one end of the cable through the loop on the other end.
- 3 Insert the locking device into the anti-theft lock slot at the back of the product.
- 4 Lock the locking device.
- An anti-theft locking device can be purchased separately.
 - Refer to the user guide provided with your anti-theft locking device for details.
 - Anti-theft locking devices can be purchased at electronics retailers or online.
 - The monitor images in this manual are for reference only. Monitor is sold separately.

2.1 What is "Windows Embedded Standard 7" Client?

The Microsoft Windows Embedded Standard 7 (WES7) client uses the Microsoft Windows Embedded Standard 2011 OS. When the WES client is connected to a server where Citrix XenDesktop, VMWare View Client, or Microsoft Remote Desktop Connection service is available, the keyboard, mouse, audio/video, and display data will be forwarded to the client through the network between the client and server.

Connectable Servers

- A Citrix XenDesktop Server
 - Microsoft Windows 2000/2003/2008 Server where the Terminal Service and Citrix XenServer are installed
- A VMWare View Client Server
 - Microsoft Windows 2000/2003/2008 Server where the Terminal Service and VMWare Server are installed
- A Microsoft RDP (Remote Desktop Protocol) Server
 - Microsoft Windows 2000/2003/2008 Server where the Terminal Services are installed
 - Microsoft Windows 7 Professional
- This manual describes the functions provided by the **WES** Client. However, it does not explain general functionalities of **WES**. For more general information on **Windows 7**, refer to Windows 7 Help provided by **Microsoft**.

2.2 Connection to Use "Windows Embedded Standard 7"

2.2.1 Before Connecting



Pre-connection Checkpoints

- Before connecting a source device, read the user manual provided with it.
 The number and locations of ports on source devices may differ from device to device.
- Do not connect the power cable until all connections are completed.
 Connecting the power cable during connection may damage the product.
- Check the types of ports at the back of the product you want to connect.
- The port names may vary depending on the monitor.
- For details on how to change the input source for your monitor, refer to the monitor user manual.
- The monitor images in this manual are for reference only. Monitor is sold separately.



2.2.2 Connection Using the D-SUB Cable (Analogue Type)



1 Connect the D-SUB cable to [RGB IN] on the back of the monitor and [RGB OUT] on the stand base.

2.2.3 Connection Using the DVI Cable



1 Connect the DVI cable to [DVI IN] on the back of the monitor and [DVI OUT] on the stand base.



2.2.4 Connecting a Microphone



1 Connect the microphone to [MIC] on the right side of the stand base.

2.2.5 Connecting to Headphones or Speakers



1 Connect an audio output device (headphones or speakers) to [AUDIO OUT] on the back or [\bigcap] on the right side of the stand base.



2.2.6 LAN Connection

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1 Connect the LAN cable to [LAN] on the back of the stand base.

• It is not supported when the network speed is below or equal to 10Mbps.

Ensure you use the CAT 5 (*STP type) cable.
 *Shielded Twist Pair

2.2.7 Connecting USB Devices



1 Connect USB devices (keyboard, mouse, etc.) to $[\psi]$ on the back or right side of the stand base.



2.2.8 Connecting the Power

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Connect the power cable to the DC power adapter. Next, connect the DC power adapter to [DC 14V IN] on the stand base.

Plug in the power cable to the power socket.

- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.
 - The monitor images in this manual are for reference only. Monitor is sold separately.
 - For details on how to connect the power cable to the monitor, refer to the monitor user manual.

2.3 Using "Windows Embedded Standard 7"

2.3.1 Logon

When the client starts, you can logon to the server by entering your username and password. The default account IDs are **Administrator** and **User**. The corresponding passwords are not set.

2.3.2 "Windows Embedded Standard 7" Desktop

User

When you log in, the **User** Desktop appears. The default icons that appear on the **User** Desktop are **Recycle Bin**, **Computer**, **Citrix Online Plug in**, **VMWare View Client**, **Remote Desktop Connection** and **Internet Explorer**. You can also run this connection from the **Start** menu. The audio volume icon and system time are displayed on the **User** Taskbar.

When logged on as a **user**, there are many restrictions that protect the system from incorrect user actions. You cannot access the system drives and there are restrictions on configuring properties for them. To configure the client's advanced and detailed settings, log on as an **administrator**.

Administrator

If you logon as Administrator, the Administrator Desktop appears. The default icons that appear on the Administrator Desktop are Recycle Bin, Computer, Citrix Online Plug in, VMWare View Client, Remote Desktop Connection and Internet Explorer. You can also run the Citrix Online Plug in, VMWare View Client, Remote Desktop Connection, and Internet Explorer from the Start menu. The audio volume icon, Enhanced Write Filter status icon, and system time are displayed on the Administrator Taskbar. The Administrator privilege is required for adding and removing programs.

Log off, Restart, Shut down

- To log off the current session, shut down or restart your client, use the Start menu. [Start → Shut down]. The Shut Down Windows dialog box is displayed. To shut down the client immediately, select [Start → Shut down]. To select Log off, Restart, etc., move the mouse over the ▶ icon next to [Shut down]. Alternatively, you can perform Log off or Shut down using the Windows Security Dialog box by pressing [Ctrl + Alt + Del]. If 'Force Auto Log on' is activated, you will be immediately logged on after each log off.
- The Client Log off, Restart and Shut down take effect on the operations of the EWF (Enhanced Write Filter). To keep the changed system configuration, you must save a cache for the current system session into flash memory. Failing to do so will cause the changed configuration to be lost when the client is shutdown or restarted. (In the case of logging off, the configuration is remembered when loggin in again.) For more information on the Enhanced Write Filter, refer to the Program Help.

2.3.3 Programs

Remote Desktop Connection

You can control a running terminal server or another computer (Windows 95 or later) remotely through a remote desktop connection.

Remote Desktop

- Windows 7 Professional or Windows 2000/2003/2008 Server must be installed on the computer to be controlled remotely. This computer is called a host.
- A remote computer running on an operating system later than **Windows 95** is required. This remote computer is called a client. The client software for the remote desktop connection must be installed on the client.
- You must also be connected to the Internet. A broadband Internet connection is good for high performance. However, because the remote desktop transmits a minimum set of data including the display data and keyboard data to control the host remotely, a broadband Internet connection is not required. You can run a remote desktop on a low bandwidth Internet connection.
 - When running a remote desktop on **Windows 7 Professional**, you cannot use the operating system of your computer.

Enabling Your Computer as the Host

You must enable the **Remote Desktop** feature to control it from another computer. You must be logged on as an **administrator** or a member of the **Administrators group** to enable **Remote Desktop** on your computer. Follow these steps:

- 1 Open the **System** folder in the **Control Panel**.
- 2 Go to [Start → Control Panel → System and Security → System], and click Remote settings.
- 3 If you want to block other PCs from accessing your PC using Remote Desktop or RemoteApp, select "Don't allow connections to this computer."
- To allow a remote PC to access your PC using any version of Remote Desktop or RemoteApp, select "Allow connections from computers running any version of Remote Desktop (less secure)." This option is suitable if you do not know the Remote Desktop Connection version being used on other PCs. Note that this option is less secure than the next option (option 3).



To allow a remote PC to access your PC using a Remote Desktop or RemoteApp version requiring a networklevel authentication, select "All Remote Assistance connections to this computer" to run Remote Desktop using network-level authentication.

System Properties
Computer Name Hardware Advanced Remote
Remote Assistance
$\hfill \hfill $
Ad <u>v</u> anced
Remote Desktop
Click an option, and then specify who can connect, if needed.
Don't allow connections to this computer
 Allow connections from computers running any version of Remote Desktop (less secure)
 Allow connections only from computers running Remote Desktop with <u>Network Level</u> Authentication (more secure)
Help me choose Select Users
OK Cancel Apply

• Start a Remote Desktop Session on the Client

Once you have enabled your host computer to allow remote connections and installed the client software on a Windowsbased client computer, you are ready to start a **Remote Desktop** session. You must first establish a virtual private network connection or remote access service connection from your client computer to your host computer. To connect to another remote desktop, follow the instructions below.

- 1 Go to [Start \rightarrow All Programs \rightarrow Accessories \rightarrow Remote Desktop Connection] or doubleclick the Remote Desktop Connection icon to open Remote Desktop Connection.
- 2 Enter the host computer name. You can configure detailed settings by clicking the **Options** button.



3 Options

- General : Enter in the login information for the host computer. To log in automatically, enter in the user name and password.

Nemote I	Desktop Connection
	Remote Desktop Connection
General D	Display Local Resources Programs Experience Advanced
-Logon set	tings
	Enter the name of the remote computer.
	Computer: Example: computer.fabrikam.com
	User name:
	The computer name field is blank. Enter a full remote computer name.
Connectio	on settings
	Save the current connection settings to an RDP file or open a saved connection. Save Save Open
Options	Connect Help

- **Display** : The **Remote Desktop Connection** sends and receives compressed screen data. If you set the resolution and color quality to the high option, the speed may become slow.

😼 Remote De	sktop Connection
	Remote Desktop Connection
	lay Local Resources Programs Experience Advanced
- Display conf	guration
	hoose the size of your remote desktop. Drag the slider all the ay to the right to use the full screen.
5	mall Large
	Use all my monitors for the remote session
Colors	
- 🍋 o	hoose the <u>co</u> lor depth of the remote session. Highest Quality (32 bit)
Display the	connection <u>b</u> ar when I use the full screen
(Options	Connect Help



- Local Resource : Specify whether to use the hard disks and ports.

퉣 Remote D	esktop Connection 📃 🗉 💌
-	Remote Desktop Connection
General Dia	play Local Resources Programs Experience Advanced
	Configure remote audio settings.
- Keyboard	Apply Windows <u>key</u> combinations:
	Example: ALT+TAB
Local devic	es and resources Choose the devices and resources that you want to use in your remote session.
	Printers If Clipboard More
(Options	Connect Help

- **Programs** : Select an application and specify the folder where you want to run the application when a connection is established to the host PC.

퉣 Remote [Desktop Connection			- • •
A	Remote Desk Connectio	top n		
General D	isplay Local Resources	Programs	Experience	Advanced
	Start the following pro Program path and file nai Start in the following fold	me:	nnection:	
(<u>O</u> ptions		(Connect	<u>H</u> elp

- **Experience** : Specify the connection speed and the menu items you want to use on the remote PC connected. The settings specified will be shared with the host PC.

💀 Remote Desktop Connection 📃 📼 📼
Remote Desktop Connection
General Display Local Resources Programs Experience Advanced Performance Choose your connection speed to optimize performance. Low-speed broadband (256 Kbps - 2 Mbps) Allow the following: Desktop background Eont smoothing Desktop composition Show window contents while dragging Menu and window animation V Isual styles V Persistent bitmap caching
I Reconnect if the connection is dropped
Options Connect Help

- Advanced : Protect your personal information when a connection is established.

Nemote [Deskto	p Connection			- • •	
A		note Des nnecti				
General D	isplay	Local Resources	s Programs	Experience	Advanced	
- Server aut	hentica	ition				
A	intend	authentication ve ed remote comput d to connect is de	er. The stren	gth of the verif	ication	
	If server authentication fails:					
	Wam	me			•	
	What a	are my server auth	nentication op	otions?		
Connect fr	om any	where				
	Gatew	ure settings to co vay when I am wo Settings			ktop	
Options			(Connect	<u>H</u> elp	

- 4 Click **Connect**. The Log On to Windows dialog box appears.
- 5 In the "Log On to Windows" dialog box, type your username, password, and domain (if required), and then click **OK**. The **Remote Desktop** window will open and you will see the desktop settings, files, and programs that are on the host computer.



For more information on **Remote Desktop Connections**, visit the **Microsoft** web site.



Internet Explorer

A WES Client includes Internet Explorer. This program is permitted for all users. Microsoft website.



For more information on Internet Explorer, visit the Microsoft website.

Enhanced Write Filter (EWF)

Enhanced Write Filter (EWF) protects a flash volume from write access and consequently, preserves the durability of the flash device. **EWF** provides read and write access through a cache to the client instead of allowing direct access to a flash volume.

If **EWF** is activated, data is not stored to the flash. The data stored in the cache is only effective while the client is operating. The cached data will be lost when restarting or shutting down your client. Therefore, to store the data written to the registry, favorites and cookie folders, etc., the content stored in the cache should be transferred to the flash. An error message is displayed when it is not possible to write to the cache due to a lack of memory. If this message is displayed, you have to deactivate **EWF** to flush the **EWF** cache. The user can double-click the **EWF** icon on the tray at the bottom right of the screen to call the **EWF** Manager. A user can also change the **EWF** configuration by entering **EWF** management commands at the command prompt. This task requires the **Administrator** privilege.

EWF Configuration					
Enhanced Write Filter (EWF) provides the ability to write-protect a run-time image.					
EWF Configure					
Current EWF Staus : Enabled					
Boot Command : No Command					
Used Memory : 64786 KB					
Command Enable write filter and restart the system.					
Disable write filter and restart the system.					
Commit changes to disk.					
✓ Place icon in the taskbar.					
OK <u>C</u> ancel					

• Enable write filter and restart the system.

If the **EWF** is disabled, enable it. If this item is selected, the cache is flushed and the **EWF** is enabled. After restarting your computer, the configurations and file system information for the client are written to a cache. You can also perform this operation by entering "**ewfmgr.exe c: -enable**" at the command prompt and restarting your computer.

• Disable write filter and restart the systems.

This item is activated when the **EWF** is running. If this item is selected, the current states of the client (saved in a cache) are saved to a flash volume and the **EWF** is disabled. After restarting your computer, the configurations and file system information for the client are written to a flash volume.

You can also perform this operation by entering "**ewfmgr.exe c: -commitanddisable**" at the command prompt and restarting your computer.

Commit changes to disk.

This item is activated when the **EWF** is running. If this item is selected, the current states of the client (saved in a cache) are saved to a flash volume. However, the state of **EWF** will not be changed. You can also perform this operation by entering "**ewfmgr.exe c: -commit**" at the command prompt.



You can view the configurations for the protected volumes by entering "**ewfmgr.exe c:**" at the command prompt.

File-Based Write Filter (FBWF)

The **File-Based Write Filter (FBWF)** protects the memory of the client from being overwritten by any unauthorized user. By restricting excessive writing into the memory, the **FBWF** allows you to use the client for a long time. If you request I/O, the **FBWF** has the client perform its operations using the cache instead of the memory so that the memory can be protected.

The data saved in the cache is preserved while the client operates normally. It is removed when it is restarted or exited. To save the changes, you should write the relevant file onto the disk using the commit command. If you don't know which file is changed, disable the **FBWF**, change it, and enable it again.

You can control the **FBWF** using the various options of the command at a command prompt.

FBWF Configuration

- Current FBWF status : Displays the current status of the FBWF (Enabled or Disabled).
- **Boot command** : Displays the **FBWF** command that will be performed at the next boot-up.
- RAM Used by FBEF : Displays the size of the RAM the FBWF is using. If the current status is set to "Disabled", the used memory is displayed as 0 KB.
- **Threshold** : Displays the maximum size of the RAM that the **FBWF** can use.
- FBWF Command
 - Enable the FBWF and reboot the system : Enables the disabled FBWF and restarts the client. If the client is not restarted, only the boot command is changed to BWF_ENABLE and the current status is not changed.
 - Disable the FBWF and reboot the system : Disables the enabled FBWF and restarts the client. If the client is not restarted, only the boot command is changed to FBWF_DISABLE and the current status is not changed.
 - Commit files : Even if the disks are protected by the FBWF, you can add or delete the files you want to save on them. To write the changes onto the disk, click the [Write the changes to the disk] button.
- Session Status
 - Current session : Displays the volumes being protected by the FBWF and a list of the folders and files on those volumes that are excepted from protection by the FBWF.



Next session : Select the volumes that will be protected by the FBWF when the client is booted up next time. Also, select the folders and files that you want to except from protection by the FBWF.

Windows Media Player

The WES Client includes Windows Media Player 12. With Windows Media Player, you can play audio and video files on a website.

2.3.4 Configuring Utilities

Local Drive

C Drive

The C drive is used for the system. The client OS will not operate if space available on the system drive is not sufficient. Ensure sufficient space is available on the C drive. **EWF** can help maintain available space by preventing the C drive being written to directly.

Saving Files

Your client uses a fixed size of flash memory. Therefore, it is better to save files to the server rather than to your client.

Mapping a Network Drive

The **Administrator** can map a folder to a network drive. To keep the mapping information after restarting the client, take note of these directions carefully.

- Select the **Reconnect** at logon checkbox in the **Map Network Drive** dialog box.
- If the EWF or FBWF is enabled, you must disable it before proceeding with installation.
2

Using "Windows Embedded Standard 7" (TB-WH)

2.3.5 Recover the System

Overview

The WES Client provides a recovery function which allows you to revert to a backed up system when encountering a serious problem. You can back up an OS image which is working normally to USB memory or the PXE server. You can revert to a backed up image when your client has one of these problems:

- When a system file is deleted accidentally or is corrupted
- When the client computer is unstable or there is a problem with a device driver
- When problems occur, after installing a new program or device
- When the client computer is infected with a virus
- When Windows Embedded Standard fails to start When a system file is deleted accidentally or is corrupted

How to Recover the System

Recovery Using USB Memory

By following these steps, you can save all necessary files to USB memory, and boot up with the backed up system on the USB memory and recover the system.

- 1 Perform system formatting for your USB memory in order to make it bootable.
- 2 Save the **Windows Embedded Standard** image and the Backup/Recovery Utility which will be recovered later to your USB memory.
- 3 Boot up with the USB memory.
- 4 Recover the system using the Windows Embedded Standard image and the Backup/ Recovery Utility in the USB memory.
- Recovery Using Network Booting

This method is provided through the **PXE (Preboot eXecution Environment)** server. The PXE sever provides a client/server interface based on **TCP/IP**, **DHCP**, and **TFTP**. It allows an administrator at a remote location to configure and boot the operating system onto a client over a network.

- Implement a PXE server.
- Save the Windows Embedded Standard image and the Backup/Recovery Utility which will be recovered later onto the PXE server.
- Boot the client via the network.
- Recover the system using the Windows Embedded Standard image and the Backup/Recovery Utility saved on the PXE server via the network.



For more information, refer to the PXE Server User Manual.

2.4 MagicRMS Pro

2.4.1 About MagicRMS Pro

The **MagicRMS Pro** program can be used to remotely control a Samsung network monitor. The design of the user-oriented interface makes it easy and convenient to use.

Using MagicRMS Pro, you can schedule a task to be performed at a specified time on a network monitor.

Also, you can manage multiple network monitors efficiently by grouping or filtering them according to specific conditions.

To use the **MagicRMS Pro Solution** or **MagicRMS Pro Agent** and to view the user guide, visit **www.samsunglfd.com**. Go to **Support>Download Center**, and search for **MagicRMS** to download.

Open source license notice

In the case of using open source software, Open Source licenses are available on the MagicRMS Pro Agent.

Open Source License Notice is written only English.

3.1 About "Zero Client"

The "Zero Client" uses a Linux operating system. When the Client connects to a server where the Citrix XendDesktop/XenApp service is available, information relating to the keyboard, mouse, audio/video and display data is transmitted from the Client to the server over the network.

Compatible servers

- Citrix XenDesktop/XenApp server
 - Microsoft Windows 2000/2003/2008 server where the Terminal Service and Citrix XenServer are installed



3.2 Connection to Use the "Zero Client"

3.2.1 Before Connecting



Pre-connection Checkpoints

- Before connecting a source device, read the user manual provided with it.
 The number and locations of ports on source devices may differ from device to device.
- Do not connect the power cable until all connections are completed.
 Connecting the power cable during connection may damage the product.
- Check the types of ports at the back of the product you want to connect.
- The port names may vary depending on the monitor.
- For details on how to change the input source for your monitor, refer to the monitor user manual.
- The monitor images in this manual are for reference only. Monitor is sold separately.



3.2.2 Connection Using the D-SUB Cable (Analogue Type)



1 Connect the D-SUB cable to [RGB IN] on the back of the monitor and [RGB OUT] on the stand base.

3.2.3 Connection Using the DVI Cable



1 Connect the DVI cable to [DVI IN] on the back of the monitor and [DVI OUT] on the stand base.



3.2.4 Connecting a Microphone



1 Connect the microphone to [MIC] on the right side of the stand base.

3.2.5 Connecting to Headphones or Speakers



1 Connect an audio output device (headphones or speakers) to [AUDIO OUT] on the back or [\bigcap] on the right side of the stand base.



3.2.6 Connecting to a Server (LAN/USB Connection)



- 1 Connect the [LAN] port on the back of the stand base to the server using the LAN cable.
 - It is not supported when the network speed is below or equal to 10Mbps.
 - Ensure you use the CAT 5 (*STP type) cable.
 *Shielded Twist Pair
- 2 Connect USB devices (keyboard, mouse, etc.) to $[\psi]$ on the back or right side of the stand base.

(To use the $[{\ensuremath{\psi}}]$ port, ensure the Client is connected to the server.)



3.2.7 Connecting the Power

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Connect the power cable to the DC power adapter. Next, connect the DC power adapter to [DC 14V IN] on the stand base.

Plug in the power cable to the power socket.

- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.
 - The monitor images in this manual are for reference only. Monitor is sold separately.
 - For details on how to connect the power cable to the monitor, refer to the monitor user manual.

3.3 Using the "Zero Client"

3.3.1 Login

Welcome Log On to acce	ess your deskt	op.	
	Username: Password: Domain:		
			Log On

- Username : Enter the user name that will be used to connect to the "Citrix" server.
- **Password** : Enter the password that will be used to connect to the "Citrix" server.
- **Domain** : Enter the domain that will be used to connect to the "Citrix" server.
- Ensure **Broker Server** is enabled under **Network**.

3.3.2 Message Box

MagicRMS

When the MagicRMS server is on, messages received from the server are displayed on the screen.

Message

The Identity function of MagicRMS allows you to check the host name of the Client.





Identity

The Identity function of MagicRMS allows you to check the host name of the Client.



Disconnect Message

If the Client is disconnected from the network, a message will appear indicating the disconnection. In this case, if you are logged on, the desktops/applications connected will disconnect and log off.

	Notice		
	4	Network disconnected, please check your network connection!	
6			Close

3.3.3 Toolbar

Network

You can view or configure the network and server settings for the Client.

	2011/08/10	Wed, 04:09		
Netw	vork Terminal Properties	ormation Shutdown	-	
Local Network	Link Speed & Duplex:	Auto-Detect	•	
Name Servers				
DHCP Options Broker Server	IP Address:	192.168.0.5		
 Remote Management 	Subnet Mask:	255.255.255.0		
> Network Tools	Default Gateway: Enable DHCP	192.168.0.1		
			ок	Cancel



Local Network

You can configure the IP to connect the Client to a network.

• Link Speed & Duplex : Select a network connection type and speed.



• To use a static IP, deselect Enable DHCP and specify the IP.

IP Address:	192.168.0.5
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.0.1
Enable DHCP	

• To use DHCP, select **Enable DHCP**.

Subnet Mask:	P Address:		
Default Gateway:	Subnet Mask:		
	Default Gateway:		

Name Servers

Configure the DNS Domain and DNS Server information on the Client.

• Specify the **DNS Domain**.

DNS Domain:

• Specify the DNS Servers. More than one DNS Server can be entered using ",". e.g.) 192.168.0.1,192.168.1.1



DHCP Options

DHCP Option IDs				
File Server:	161	Citix Server:	165	
Root Path:	162	Domain List:	166]
Ftp Username:	163	RMS Server:	167	
Ftp Password:	164	RMS Port:	168	
				l



To automatically configure several settings for the Client all at once using DHCP upon boot up, configure the **DHCP Options IDs**.

- Ensure the setting is specified between 128 and 254.
- If this option is configured, the setting specified will replace the customized setting.

Requirements

- Local Network must be set to Enable DHCP.
- Information about the Options IDs must be configured on the DHCP server.

Security

Client provides a security function using IEEE802.1x authentication.

Available modes

- EAP-PEAP (MSCHAPv2, PEAP version Automatic)
- EAP-TLS

To use this function, select Enable IEEE802.1x Authentication and specify the Authentication mode.

Enable IEEE802.1	Authenticatio	on		
Authentication	EAP-PEAP	¥	Properties	

1 EAP-PEAP

To use **EAP-PEAP** mode, set the **Authentication** mode to **EAP-PEAP**.

- 🗸 Enable IEEE802.1;	x Authenticat	ion	
Authentication	EAP-PEAP	•	Properties

Click **Properties**, and enter the **Username** and **Password** for authentication.

Username:			
Password:			
	0		



2 EAP-TLS

To use **EAP-TLS** mode, set the **Authentication** mode to **EAP-TLS**.



Click **Properties**, and configure the following settings for authentication. To select a certificate, ensure you copy the authentication file to the Client using **Certification Management**.

- a. Enter the **Identity** information.
- b. Select a CA certificate file (*.der, *.pem, *.crt, *.cer).
- c. Select a **Private key** file.
- d. Enter the **Private key password**.

Authentication Properties	EAP-TLS	Prope	
Identity CA certificate			Browse
Private key Private key password	-	-	Browse
		еок	Cancel

3 Certification Management

For you to manage authentication files that are used in **EPA-TLS** mode, the following menu options are provided.

- a. An option for copying a file using several methods including **USB Storage** (The file will be copied to a specific directory on the Client.)
- b. An option for deleting a saved file

Certification Manage Import From:	ment
USB Storage	File Browser
Remove:	File Browser

Broker Server

Enter information to connect to the Citrix server.



• Enter the IP address of the Citrix server.

• Specify the **Default Username** and **Default Domain** that will be used to connect to the server.

Default Username:	xendt05
Default Domain:	xendt

Remote Management

You can configure the settings for servers that manage the Client, enter information about the servers, or view the status of the servers.

For details on the MagicRMS function, refer to the MagicRMS user manual.

1 File Server

Address:	ftp://
Path:	
Username:	
Password:	

Configure the FTP server to connect to in order to upgrade the firmware on the Client. The information configured will be used to upgrade the firmware when the Client boots up.

- Address : Enter the IP address of the FTP server.
- Path : Enter the Path of the FTP server where the new firmware is saved.
- Username : Enter the Username that will be used to connect to the FTP server.
- Password : Enter the Password that will be used to connect to the FTP server.

Requirements

- Ensure the FTP server is working properly.
- The new firmware must be in a compatible file format.

2 MagicRMS Connection

Connection		
Multicast		
Server Assignmen	t	
Address:	239.5.6.7	
Port:	5015	
Port:		

Enter the **Connection** information to connect to the **MagicRMS** server.

Multicast

Enable this option if you want to automatically connect to the **MagicRMS** server. Specify the IP **Address** and **Port** number for **Multicast**. If the **MagicRMS** server is assigned with the same IP address and port number as the Client, it will automatically connect to the Client.

Server Assignment

If you know the static IP address and port number of the **MagicRMS** server, you can manually enter them to connect to the server.

3 MagicRMS Contact



Enter information to identify the Client on the MagicRMS console.



4 MagicRMS Status



You can check the connection status of the MagicRMS server. If there are connection issues, check the server connection and select Start, Stop, or Restart to start the server.

To view details of the MagicRMS server logs, click View Log.

Con ⊳ Co	lagicRMS Log file	
it pl	MRAgentService [08/26-15:08:42-8750] open file /etc/network/interfaces. MRAgentService [08/26-16:14:43-1296] MRAgentService [08/26-16:22:26-1286] MRAgentService [08/26-16:22:45-1596] open file /etc/network/interfaces. MRAgentService [08/31-19:17:40-1022]	[Sysinfo]Not able to No such device No such device [Sysinfo]Not able to No such device
		Close



5 Network Tools

Network Tools can be used to check the connection status between the Client and network.

Ping



Using the Ping command, you can check the status of the network connection for the IPs entered.

Trace Route



Using the Route command, you can check the network connection status for the IPs entered.



Terminal Properties

Configure the properties of the Client.

	2011/08/10 Wed, 04:10
	Network Properties Information Shutdown
V System	
General	Terminal Name: ts_D0667B87529F
Power Manageme Time/Date	Reset the system setting to factory default
Display Toolbar Sound > Input > Printer	
	OK Cancel

System

- 1 General
 - Terminal Name : Change the Client name. The default name is "TS_ + MAC information."



Reset the system setting to factory default : Reset the Client settings by selecting the checkbox.

Reset the system setting to factory default

Select **Yes** in the **Notice** window that appears after selecting the checkbox. The settings will be reset.





2 Power Management

Control the power supply to the Client by changing the Screen Off setting. The Client will
activate Power Management if it is left idle for a specified amount of time.

S	creen Off:	Never	•
The	e following time settings are available to choose f	rom.	
	Never		
	5 minutes		
	10 minutes		

- 30 minutes
- I hour
- 2 hours

3 Time/Date

Set the clock on the Client.

• Time Zone



Enter the **Time Zone** information to apply to the Client. Click **Change**, and select the time zone desired.

Time Zone Settings	
Set the Time Zone:	
(GMT +2:00) Athens, Helsinki, Cairo, Ankara, Cape Town (GMT +3:00) Moscow, Riyadh, Kuwait (GMT +4:00) Abudhabi, Muscat, Baku (GMT +5:00) Tashkent, Ashkhabad, Karachi (GMT +6:00) Almaty, Katmandu, Dacca (GMT +7:00) Bangkok, Jakarta, Yangon, Hanoi (GMT +8:00) Hong Kong, Beijing, Singapore, Manila, Perth (GMT +9:00) Seoul, Tokyo, Pyongyang (GMT +10:00) Guam, Sydney, Brisbane, Canberra (GMT +11:00) Sea of Okhotsk (GMT +12:00) Wellington, Auckland, Fiji	
ок	Cancel

To enable DayLight Saving, select the **Enable DayLight Saving** checkbox and select the number of hours to apply.

Enable DayLight Saving	
Lindbie DuyLight Datning	
O 1 hour	
• 2 hours	

Time/Date Format

- Time Format / Date Format : Specify the format to display the time and date on the toolbar.
- Time Servers : Enter the Time Server information provided online. The time and date on the Client will automatically be set.

Time/Date Format			
Time Format:	12-hour format	•	
Date Format:	dd/mm/yyyy	•	
Time Servers:			

Display

Configure the settings for display devices connected to the Client.

1 Orientation



Configure the screen orientation of the selected display device.

You can select Horizontal or Vertical.

2 Resolution



Set the resolution of the selected display device.

The resolutions available vary depending on the display device.

3 Multiple Display

When two display devices are connected to the Client, specify how you will use the screens.



• To display the same desktop on the displays, select **Clone**. When **Clone** is selected, the same **Orientation** and **Resolution** will be applied to the displays.

	DVI / VGA	
Orientation:	Horizontal -	
Resolution: Multiple Display:	1600x1200 - Clone -	



• To display an extended desktop on the two displays, select **Extend**.

	DVI	VGA	
Orientation:	Horizontal	•	
Resolution:	1600x1200	•	
Multiple Displa	y: Extend	•	
The curren	it selected screen is a	lready the main screen	

The display selected as the primary screen will be placed on the left.

	DVI		VGA	
Orientation:	Horizontal	•		
Resolution:	1600x1200	•		
Multiple Display:	Extend	•		
Set as the m	ain screen			

To set the selected display as the primary screen, select the **Set as the main screen** checkbox.



When only one display device is connected, the Multiple Display option is disabled.

Orientation:	Horizontal -
Resolution:	1920x1200 -
Multiple Display:	Extend -

Toolbar

R

Select whether to display the toolbar or enable the shortcut keys on the Client.

Always hide toolbar

Hide the toolbar on the screen: select the checkbox and minimize the toolbar. To unhide the toolbar, press the corresponding shortcut key.

~	Always hide toolbar
	Disable hotkey (CTRL-ALT-UP) to invoke toolbar

Disable hotkey(CTRL-ALT-UP) to invoke toolbar

Shrink the toolbar by pressing the corresponding shortcut key (CTRL-ALT-UP). To expand the toolbar, click the arrow button on the minimized toolbar.





The two options above cannot be enabled at the same time.

Sound

Adjust the sound on the Client.

- Volume : Adjust the volume using the scrollbar.
- Mute : Mute the sound.

Volume	
Low	High
Mute	

Input

1 Keyboard

You can configure the keyboard settings for the Client.

- Character Set : Specify the character encoding method to use on the Client.
- **Keyboard Language** : Specify the keyboard language.
- **Repeat Rate** : Specify the keyboard sensitivity.

Character Set:	ISO-8859-5	•	
Keyboard Language:	English (United States)	•	
Repeat Rate Slow Normal Fast			

2 Mouse

You can configure the mouse settings for the Client.

- Mouse Speed : Configure the mouse movement sensitivity.
- **Buttons** : Activate the left-handed mouse mode.

Mouse Speed		
Slow		
Normal		
Fast		
Buttons		
Left-handed mouse		

Printer

1 LPDs

Configure the LPD-type printer settings.

Select LPD:	LPD 1	•	
Host Name:			
Printer Name:			
Select Printer Class:	PCL	•	
Printer Enabled			
			Print Test Page



2 SMBs

Configure the SMB-type printer settings.

Select SMBs:	SMB 1 -
smb://	
Authentication	
Username:	
Password:	
Printer Enable	
	Print Test Page

Information

You can view the Client information.

	10/08/20	11 Wed, 04:13 AM	
Net	work Terminal Properties	Information Shutdown	
General			
Hardware	Firmware:	N-TCSCZWW-0750.0	
Network	Checksum:	62021256	
Open Source Notice	Citrix Receiver:	11.120.181851	
	Terminal Name:	ts_D0667B87529F	
Open Source Notice			
			Close

General

- Firmware : View the version of the firmware on the Client.
- Checksum : View the checksum of the firmware on the Client.
- Citrix Receiver : View the version of the Citrix Receiver used on the Client.



• Terminal Name : View the Terminal Name of the Client.

Firmware:	N-TCSCZWW-0750.0
Checksum:	62021256
Citrix Receiver:	11.120.181851
Terminal Name:	ts_D0667B87529F

Hardware

- **CPU** : View information about the CPU on the Client.
- **CPU Busy** : View the current CPU usage on the Client.
- Memory size : View the total amount of memory on the Client.
- Free Memory : View the amount of memory currently available on the Client.
- **Resolution** : View the display resolution configured on the Client.
- **System up Time** : View the amount of time the Client has been running.

CPU:	AMD G-T44R Processor
CPU Busy:	17%
Memory size:	1650936 KB
Free Memory:	1416980 KB
Resolution:	1600x1200
System up Time	24 Min

Network

- IP Address : View the IP information configured on the Client.
- Subnet Mask : View the subnet mask configured on the Client.
- **Default Gateway** : View the **Default Gateway** configured on the Client.
- **DHCP Lease** : View the amount of time (in seconds) it takes for an IP address to be assigned when the Client uses DHCP.
- **Speed & Duplex**: View the speed and duplex information of the link that is used when the Client connects to a network.



• Mac Address : View the Mac Address of the network adapter on the Client.

IP Address :	192.168.0.67
Subnet Mask :	255.255.255.0
Default Gateway :	192.168.0.1
DHCP Lease :	N.A
Speed & Duplex :	100Mb/s & Full
Mac Address :	D0:66:7B:87:52:9F

Open Source Notice

You can view details of the Open Source components used on the Client.

General	
Hardware	
Network	To send inquiries and requests for questions regarding open sources, contact Samsung via Email (oss.request@samsung.com).
Open Source Notice	. This product uses some software programs which are distributed
	under the Independent JPEG Group.
	. This product uses some software programs which are distributed under the Freetype Project.
	. This product uses some software programs which are distributed under the OpenSSL Project.
	. This product uses some software programs which are distributed under the MPL.
	. This product uses some software programs which are distributed under the GPL/LGPL.
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Open source license notice

In the case of using open source software, Open Source licenses are available on the product menu.

Open Source License Notice is written only English.

Shutdown

You can log off, close, or restart the Client.





1 Log-off from account "***"

Log off from the Client if you are logged on. This option is enabled only when you are logged on to the Client. To log off, select **Yes** in the **Notice** window.



2 Shutdown the system

You can close the Client. To close the Client, select Yes in the Notice window.



3 Restart the system

You can restart the Client. To restart the Client, select Yes in the Notice window.





Remote Desktop

You can view a list of desktops and applications (on the Citrix Server) the Client can connect to when logged on.

2011/08/10 Wed, 04:14				
Remote Desktop	Network Terminal Information Shutdown	-		
Desktop List	XENDESKTOP2	Connect		
	E XENDESKTOP	Connect		
	🗾 ttt	Connect		
	K Excel	Connect		
		Refresh		
		Close		

Desktop List

1 Connect

You can connect to a desktop or application on the list by clicking the corresponding **Connect** button or double-clicking the desktop or application desired.



When a connection to a desktop or application is established, the Connect button for the desktop or application will be replaced by the **Disconnect** button in the **Desktop List**. The corresponding desktop or application row in the list will be highlighted as shown below.

You can connect to more than one desktop or application. The names of the desktops and applications connected will be highlighted.

	XENDESKTOP2	Connect
	Wordpad	Disconnect
W	Word	Connect
•	WindowsXP	Disconnect
	Memo	Disconnect
Ø	Explorer	Connect
	Excel	Connect

2 Disconnect

The **Disconnect** button disconnects the corresponding desktop or application connected. When the desktop or application is disconnected, a list of connected desktops or applications will appear if there are any.



3 Refresh

To update the **Desktop List** that contains a list of desktops or applications on the Citrix Server, click **Refresh**.



4 Reconnect

You can display desktops and applications that are not displayed even though they are connected to the Client. Double-click the desktop or application desired. The corresponding desktop or application row in the list will be highlighted.



🔄 WindowsXP	Disconnect
Memo	Disconnect

Status Icon

Network icon: Display the current network status using an icon.

1 Not connected to the network.



2 Attempting to connect to the network.



3 Connected to the network.





Terminal Lock

This menu locks the **Network** and **Terminal Properties** options so that their settings cannot be changed.

The corresponding shortcut key is [CTRL + ALT + F6].

• How to lock the two options

Press and hold the shortcut key for a specified time (about 8 seconds).

When the lock is on, the options locked will be indicated on the toolbar as shown below.

1	🔒 02/09/2011 Fri, 08:22 AM			
Network	Terminal Properties	Information	Shutdown	.

• How to unlock the two options

Press and hold the shortcut key for a specified time (about 8 seconds).

Note that you are prompted to enter the password in order to unlock the two options.

Administrator				
Administrator Password:	samsung			
			Yes	Νο

4.1 Requirements Before Contacting Samsung Customer Service Center

4.1.1 Check the following.

Sound issue		
There is no sound.	Check the connection of the audio cable or adjust the volume.	
	Check the volume.	
The volume is too low.	Adjust the volume.	
	If the volume is still low after turning it up to the maximum level, adjust the volume in the audio settings program.	

5.1 General

Mode	Name	TB-WH TB-CH		
Power Supply		This product uses 100 to 240V. Refer to the label at the back of the product as the standard voltage can vary in different countries.		
Monitor connect	ors	RGB OUT (D-Sub) port, DVI OUT	port	
Server connecto	r	LAN		
Speaker		1 W x 2		
USB		USB 2.0 x 6 (Down stream)		
Dimensions (W x H x D) /		244.0 X 340.0 X 227.0 mm / 9.6	X 13.4 X 8.9 inches /	
Weight		2.3 kg / 5.1 lb		
Environmental	Operating	Temperature : 50°F ~ 122°F (10°C ~ 50°C)		
considerations		Humidity : 10 % – 90 %, non-condensing		
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)		
		Humidity : 5 % – 90 %, non-condensing		
VESA (V x H)	·	75 x 75 mm / 100 x 100 mm		

The above specifications are subject to change without notice to improve quality.

This device is a Class B digital apparatus.

(USA only)

K

K

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect or call, (877) 278 - 0799

CALIFORNIA USA ONLY (Applicable for networking models only.)

This Perchlorate warning applies only to primary CR(Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA

"Perchloate Material - special handling may apply, See www.dtsc.ca.gov/hazardouswaste/ perchlorate."

5.2 Power consumption

	Normal operation mode		Power off (S5)	Power off	
PowerSaver	Typical	Rating	Stand by (S3)	(Power button off)	(Power switch off)
Power lamp	On		Off	Off	Off
Power Consumption	11 W	35 W	Less than 2 W	Less than 2 W	0 W

• The power consumption level can vary in different operating conditions or when settings are changed.

• To reduce the power consumption to 0 watts, turn off the switch on the adapter or disconnect the power cable. Be sure to disconnect the power cable when you will not be using the product for an extended period of time. To reduce the power consumption to 0 watts when the power switch is not available, disconnect the power cable.

Contact SAMSUNG WORLDWIDE

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If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

NORTH AMERICA			
U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com	
CANADA	1-800-SAMSUNG (726-7864)	http://www.samsung.com/ca http://www.samsung.com/ch_fr (French)	
MEXICO	01-800-SAMSUNG (726-7864)	http://www.samsung.com	

LATIN AMERICA				
ARGENTINA	0800-333-3733	http://www.samsung.com		
BRAZIL	0800-124-421 4004-0000	http://www.samsung.com		
BOLIVIA	800-10-7260	http://www.samsung.com		
CHILE	800-SAMSUNG (726-7864) From mobile 02-482 82 00	http://www.samsung.com		
COLOMBIA	01-8000112112	http://www.samsung.com		
COSTA RICA	0-800-507-7267	http://www.samsung.com		
DOMINICA	1-800-751-2676	http://www.samsung.com		
ECUADOR	1-800-10-7267	http://www.samsung.com		
EL SALVADOR	800-6225	http://www.samsung.com		
GUATEMALA	1-800-299-0013	http://www.samsung.com		
HONDURAS	800-27919267	http://www.samsung.com		
JAMAICA	1-800-234-7267	http://www.samsung.com		
NICARAGUA	00-1800-5077267	http://www.samsung.com		
PANAMA	800-7267	http://www.samsung.com		
PERU	0-800-777-08	http://www.samsung.com		
PUERTO RICO	1-800-682-3180	http://www.samsung.com		
TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864)	http://www.samsung.com		
VENEZUELA	0-800-100-5303	http://www.samsung.com		

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EUROPE				
ALBANIA	42 27 5755	http://www.samsung.com		
AUSTRIA	0810 - SAMSUNG (7267864, € 0.07/min)	http://www.samsung.com		
BELGIUM	02-201-24-18	http://www.samsung.com/be (Dutch)		
		http://www.samsung.com/be_fr (French)		
BOSNIA	05 133 1999	http://www.samsung.com		
BULGARIA	07001 33 11	http://www.samsung.com		
CROATIA	062 SAMSUNG (062 726 7864)	http://www.samsung.com		
CZECH	800 - SAMSUNG (800-726786)	http://www.samsung.com		
	Samsung Electronics Czech and S Oasis Florenc, Sokolovská 394/17			
DENMARK	70 70 19 70	http://www.samsung.com		
FINLAND	030 - 6227 515	http://www.samsung.com		
FRANCE	01 48 63 00 00	http://www.samsung.com		
GERMANY	01805 - SAMSUNG (726-7864,€ 0,14/Min)	http://www.samsung.com		
CYPRUS	From landline : 8009 4000	http://www.samsung.com		
GREECE	From landline : 80111-SAMSUNG (7267864) From landline & mobile : (+30) 210 6897691	http://www.samsung.com		
HUNGARY	06-80-SAMSUNG (726-7864)	http://www.samsung.com		
ITALIA	800-SAMSUNG (726-7864)	http://www.samsung.com		
KOSOVO	+381 0113216899	http://www.samsung.com		
LUXEMBURG	261 03 710	http://www.samsung.com		
MACEDONIA	023 207 777	http://www.samsung.com		
MONTENEGRO	020 405 888	http://www.samsung.com		
NETHERLANDS	0900 - SAMSUNG (0900-7267864) (€ 0,10/Min)	http://www.samsung.com		
NORWAY	815-56 480	http://www.samsung.com		
POLAND	0 801-1SAMSUNG (172-678) +48 22 607-93-33	http://www.samsung.com		

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EUROPE				
PORTUGAL	808 20 - SAMSUNG (808 20 7267)	http://www.samsung.com		
RUMANIA	From landline : 08010-SAMSUNG (7267864) From landline & mobile : (+40) 21 206 01 10	http://www.samsung.com		
SERBIA	0700 Samsung (0700 726 7864)	http://www.samsung.com		
SLOVAKIA	0800 - SAMSUNG (0800-726 786)	http://www.samsung.com		
SPAIN	902 - 1 - SAMSUNG (902 172 678)	http://www.samsung.com		
SWEDEN	0771 726 7864 (SAMSUNG)	http://www.samsung.com		
SWITZERLAND	0848-SAMSUNG (7267864, CHF 0.08/min)	http://www.samsung.com/ch http://www.samsung.com/ch_fr (French)		
U.K	0330 SAMSUNG (7267864)	http://www.samsung.com		
EIRE	0818 717100	http://www.samsung.com		
LITHUANIA	8-800-77777	http://www.samsung.com		
LATVIA	8000-7267	http://www.samsung.com		
ESTONIA	800-7267	http://www.samsung.com		
TURKEY	444 77 11	http://www.samsung.com		

CIS		
RUSSIA	8-800-555-55-55	http://www.samsung.com
GEORGIA	8-800-555-555	http://www.samsung.com
ARMENIA	0-800-05-555	http://www.samsung.com
AZERBAIJAN	088-55-55-555	http://www.samsung.com
KAZAKHSTAN	8-10-800-500-55-500 (GSM: 7799)	http://www.samsung.com
UZBEKISTAN	8-10-800-500-55-500	http://www.samsung.com
KYRGYZSTAN	00-800-500-55-500	http://www.samsung.com
TADJIKISTAN	8-10-800-500-55-500	http://www.samsung.com
MONGOLIA	-	http://www.samsung.com

CIS		
UKRAINE	0-800-502-000	http://www.samsung.com/ua http://www.samsung.com/ ua_ru
BELARUS	810-800-500-55-500	http://www.samsung.com
MOLDOVA	00-800-500-55-500	http://www.samsung.com

ASIA PACIFIC		
AUSTRALIA	1300 362 603	http://www.samsung.com
NEW ZEALAND	0800 SAMSUNG (0800 726 786)	http://www.samsung.com
CHINA	400-810-5858	http://www.samsung.com
HONG KONG	(852) 3698 - 4698	http://www.samsung.com/hk
		http://www.samsung.com/ hk_en/
INDIA	1800 1100 11	http://www.samsung.com
	3030 8282	
	1800 3000 8282	
	1800 266 8282	
INDONESIA	0800-112-8888 021-5699-7777	http://www.samsung.com
JAPAN	0120-327-527	http://www.samsung.com
MALAYSIA	1800-88-9999	http://www.samsung.com
PHILIPPINES	1-800-10-SAMSUNG (726-7864) for PLDT	http://www.samsung.com
	1-800-3-SAMSUNG (726-7864) for Digitel	
	1-800-8-SAMSUNG (726-7864) for Globe	
	02-5805777	
SINGAPORE	1800-SAMSUNG (726-7864)	http://www.samsung.com
THAILAND	1800-29-3232	http://www.samsung.com
	02-689-3232	
TAIWAN	0800-329-999	http://www.samsung.com
	0266-026-066	
VIETNAM	1 800 588 889	http://www.samsung.com

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MIDDIE EAST		
IRAN	021-8255	http://www.samsung.com
OMAN	800-SAMSUNG (726-7864)	http://www.samsung.com
KUWAIT	183-2255	http://www.samsung.com
BAHRAIN	8000-4726	http://www.samsung.com
EGYPT	08000-726786	http://www.samsung.com
JORDAN	800-22273	http://www.samsung.com
MOROCCO	080 100 2255	http://www.samsung.com
SAUDI ARABIA	9200-21230	http://www.samsung.com
U.A.E	800-SAMSUNG (726-7864)	http://www.samsung.com

AFRICA		
CAMEROON	7095-0077	http://www.samsung.com
COTE D'LVOIRE	8000 0077	http://www.samsung.com
GHANA	0800-10077	http://www.samsung.com
	0302-200077	
KENYA	0800 724 000	http://www.samsung.com
NIGERIA	0800-726-7864	http://www.samsung.com
SENEGAL	800-00-0077	http://www.samsung.com
SOUTH AFRICA	0860-SAMSUNG (726-7864)	http://www.samsung.com
TANZANIA	0685 88 99 00	http://www.samsung.com
UGANDA	0800 300 300	http://www.samsung.com

Correct Disposal

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product



(Applicable in the European Union and other European countries with separate battery return systems.)

The marking on the battery, manual or packaging indicates that the battery in this product should not be disposed of with other household waste. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66.

The battery incorporated in this product is not user replaceable. For information on its replacement, please contact your service provider. Do not attempt to remove the battery or dispose it in a fire. Do not disassemble, crush, or puncture the battery. If you intend to discard the product, the waste collection site will take the appropriate measures for the recycling and treatment of the product, including the battery.

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