ViewSonic®

SD-T225
Client Monitor
User Guide

Model No. VS15741

Compliance Information

NOTE: This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on unit.

FCC Compliance Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Industry Canada Statement

CAN ICES-3(B)/NMB-3(B)

Following information is only for EU-member states:
The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local law.

Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr^{6+})	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives as noted below:

Examples of exempted components are:

1. Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):

    (1) Short length ($\leqq$500 mm): maximum 3.5 mg per lamp.

    (2) Medium length ($>$500 mm and $\leqq$1,500 mm): maximum 5 mg per lamp.

    (3) Long length ($>$1,500 mm): maximum 13 mg per lamp.

2. Lead in glass of cathode ray tubes.
3. Lead in glass of fluorescent tubes not exceeding 0.2% by weight.
4. Lead as an alloying element in aluminium containing up to 0.4% lead by weight.
5. Copper alloy containing up to 4% lead by weight.
6. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
7. Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

Cautions and Warnings

1. Read these instructions completely before using the equipment.

2. Keep these instructions in a safe place.

3. Heed all warnings and follow all instructions.

4. Sit at least 18" / 45cm from the Thin Client Monitor.

5. Always handle the Thin Client Monitor with care when moving it.

6. Never remove the rear cover. This Thin Client Monitor contains high-voltage parts. You may be seriously injured if you touch them.

7. Do not use this equipment near water. Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

8. Avoid exposing the Thin Client Monitor to direct sunlight or another heat source. Orient the Thin Client Monitor away from direct sunlight to reduce glare.

9. Clean with a soft, dry cloth. If further cleaning is required, see "Cleaning the Display" in this guide for further instructions.

10. Avoid touching the screen. Skin oils are difficult to remove.

11. Do not rub or apply pressure to the LCD panel, as it may permanently damage the screen.

12. Do not block any ventilation openings. Install the equipment in accordance with the manufacturer's instructions.

13. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.

14. Place the Thin Client Monitor in a well ventilated area. Do not place anything on the Thin Client Monitor that prevents heat dissipation.

15. Do not place heavy objects on the Thin Client Monitor, video cable, or power cord.

16. If smoke, an abnormal noise, or a strange odor is present, immediately switch the Thin Client Monitor off and call your dealer or ViewSonic. It is dangerous to continue using the Thin Client Monitor.

17. Do not attempt to circumvent the safety provisions of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the plug does not fit into your outlet, consult an electrician for replacement of the outlet.

18. Protect the power cord from being tread upon or pinched, particularly at the plug, and the point where if emerges from the equipment. Be sure that the power outlet is located near the equipment so that it is easily accessible.

19. Only use attachments/accessories specified by the manufacturer.

20. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tipping over.

21. Unplug this equipment when it will be unused for long periods of time.

22. Refer all servicing to qualified service personnel. Service is required when the unit has been damaged in any way, such as: if the power-supply cord or plug is damaged, if liquid is spilled onto or objects fall into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.

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Copyright Information

Product Registration

To fulfill possible future product needs, and to receive additional product information as it becomes available, please visit your region section on ViewSonic's website to register your product online.

For Your Records

Product Name:	SD-T225 ViewSonic Thin Client Monitor
Model Number:	VS15741
Document Number:	SD-T225_UG_ENG Rev. 1A 03-07-14
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

ViewSonic respects the environment and is committed to working and living green.
Thank you for being part of Smarter, Greener Computing.
Please visit ViewSonic website to learn more.
USA & Canada: http://www.viewsonic.com/company/green/recycle-program/
Europe: http://www.viewsoniceurope.com/uk/support/recycling-information/
Taiwan: http://recycle.epa.gov.tw/recycle/index2.aspx

Getting Started

Important! Save the original box and all packing material for future shipping needs.
NOTE: The word "Windows" in this user guide refers to Microsoft Windows operating system.

Package Contents

Your Thin Client Monitor package includes:

- Thin Client Monitor
- Power cord
- D-Sub cable
- Compliance Information Brochure
- Quick Start Guide
- ViewSonic Optical Disk
  - User Guide
  - INF/ICM files*
  - Registration information
  - Additional software (Optional)

NOTE: The INF file ensures compatibility with Windows operating systems, and the ICM file (Image Color Matching) ensures accurate on-screen colors. ViewSonic recommends that you install both the INF and ICM files.

Quick Installation

1. Connect video cable
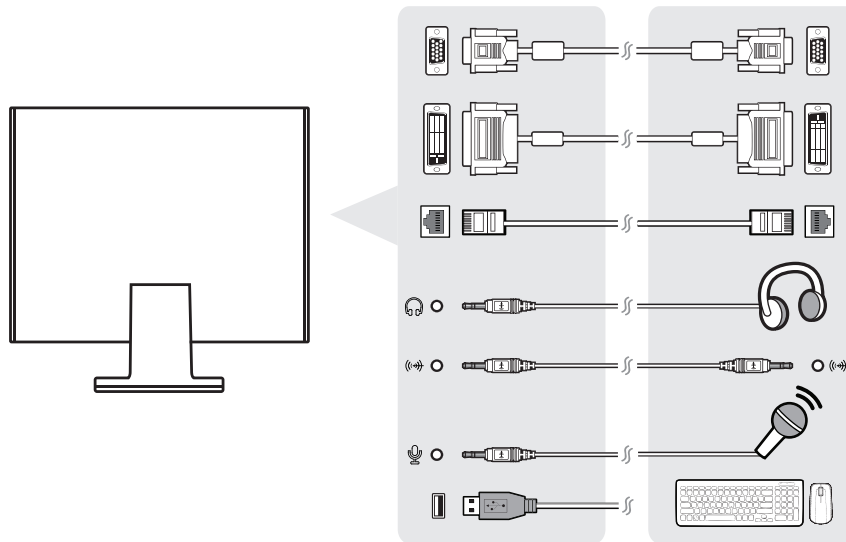
2. Connect power cord (and AC/DC adapter if required)

3. Turn ON Thin Client Monitor

Note:
The Client power turned off as default. Please refer to the Client system chapter for turning on.

Additional Software Installation (Optional)

1. Load the ViewSonic Optical Disk on your CD/DVD drive.

2. Double click on the "Software" folder and choose an application, if desired.

3. Double click on the Setup.exe file and follow the on-screen instructions to complete the simple installation.

Wall Mounting (Optional)

NOTE: For use only with UL-listed Wall Mount Bracket.
To obtain a wall-mounting kit or height adjustment base, contact ViewSonic® or your local dealer. Refer to the instructions that come with the base mounting kit. To convert your Thin Client Monitor from a desk-mounted to a wall-mounted display, do the following:

1. Verify that the power button is turned Off, then disconnect the power cord.

2. Lay the Thin Client Monitor face down on a towel or blanket.

3. Remove the base. (Removal of screws might be required.)

4. Identify one of the following VESA mount interfaces (a,b,c) located on the back of your display (refer to "Specifications" page for your displays mounting interface). Attach the mounting bracket from the VESA-compatible wall mounting kit using screws of the appropriate length.

a.	b.	c.
75mm 75mm	100mm 100mm	200mm 100mm 100mm
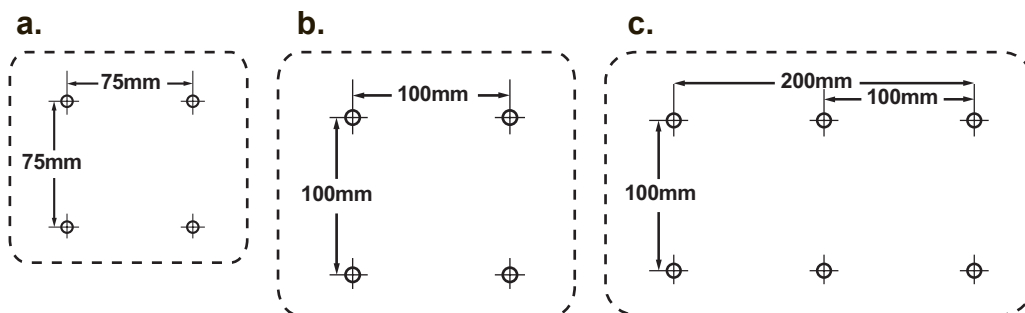
5. Attach the Thin Client Monitor to the wall, following the instructions in the wall-mounting kit.

Using the Thin Client Monitor

Setting the Timing Mode

Setting the timing mode is important for maximizing the quality of the screen image and minimizing eye strain. The **timing mode** consists of the **resolution** (example 1024 x 768) and **refresh rate** (or vertical frequency; example 60 Hz). After setting the timing mode, use the OSD (On-screen Display) controls to adjust the screen image.

For optimal picture quality, please use the recommended timing mode specific to your Thin Client Monitor listed on the "Specification" page.

To set the Timing Mode:

- **Setting the resolution:** Access "Appearance and Personalization" from Control Panel via the Start Menu, and set the resolution.

- **Setting the refresh rate:** See your graphic card's user guide for instructions.

IMPORTANT: Please make sure that your graphics card is set to 60Hz vertical refresh rate as the recommended setting for most Thin Client Monitors. Choosing a non-supported timing mode setting may result in no image being displayed, and a message showing "Out of Range" will appear on screen.

OSD and Power Lock Settings

- **OSD Lock:** Press and hold [1] and the up arrow ▲ for 10 seconds. If any buttons are pressed the message **OSD Locked** will display for 3 seconds.

- **OSD Unlock:** Press and hold [1] and the up arrow ▲ again for 10 seconds.

- **Power Button Lock:** Press and hold [1] and the down arrow ▼ for 10 seconds. If the power button is pressed the message **Power Button Locked** will display for 3 seconds. With or without this setting, after a power failure, your Thin Client Monitor's power will automatically turn ON when power is restored.

- **Power Button Unlock:** Press and hold [1] and the down arrow ▼ again for 10 seconds.

Adjusting the Screen Image

Use the buttons on the front control panel to display and adjust the OSD menu items that appear on the screen.

(power symbol)		Standby Power On/Off
[1]		MENU/EXIT Displays the Main Menu or exits the control screen and saves adjustments.
[2]		SOURCE/ENTER Displays the highlighted OSD menu item. Also a shortcut to toggle analog and Client.
▲/▼		Scrolls through menu options and adjusts the displayed OSD menu item. Blue light filter (▼) / ViewMode (▲)
◯ Power		Power indicator Blue = ON Orange = Power Saving
◯ Client		Client indicator Green = Activates Client Dark = Client OFF
(network symbol)		Flash blue = The network cable is connected on RJ45 port.
Client		Turn on/off the Client power * Press and hold the Client button. The Client power will be turned off and LED will be dark.

Do the following to adjust the display setting:

1. To display the Main Menu, press button [1].

    NOTE: All OSD menus and adjustment screens disappear automatically after about 15 seconds. This is adjustable through the OSD timeout setting in the setup menu.

2. To select a OSD menu item to adjust, press ▲ or ▼ to scroll up or down in the Main Menu.

3. After the desired item is selected, press button [2].

4. To save the adjustments and exit the menu, press button [1] until OSD disappear.

The following tips may help you optimize your display:

•   Adjust the computer's graphics card to support a recommended timing mode (refer to "Specifications" page for recommended setting specific to your Thin Client Monitor). To find instructions on "changing the refresh rate", please refer to the graphics card's user guide.

•   If necessary, make small adjustments using H. POSITION and V. POSITION until the screen image is completely visible. (The black border around the edge of the screen should barely touch the illuminated "active area" of the Thin Client Monitor.)

Main Menu Controls

Adjust the menu items by using the up ▲ and down ▼ buttons.
NOTE: Check the Main Menu items on your LCD OSD and refer to Main Menu Explanation below.

Main Menu Explanation

NOTE: The Main Menu items listed in this section indicate whole Main Menu items of all models. For the actual Main Menu details corresponding to your product please refer to your LCD OSD Main Menu items.

A Audio Adjust
Adjusts the volume, mutes the sound.

Auto Image Adjust
Automatically sizes, centers, and fine-tunes the video signal to eliminate waviness and distortion. Press the [2] button to obtain a sharper image.
NOTE: Auto Image Adjust works with most common video cards. If this function does not work on your Thin Client Monitor, then lower the video refresh rate to 60 Hz and set the resolution to its pre-set value.

B Brightness
Adjusts background black level of the screen image.

C Color Adjust
Provides several color adjustment modes, including preset color temperatures and a User Color mode which allows independent adjustment of red (R), green (G), and blue (B). The factory setting for this product is native.

Contrast
Adjusts the difference between the image background (black level) and the foreground (white level).

I Information
Displays the timing mode (video signal input) coming from the graphics card in the computer, the LCD model number, the serial number, and the ViewSonic® website URL. See your graphics card's user guide for instructions on changing the resolution and refresh rate (vertical frequency).
NOTE: VESA 1024 x 768 @ 60Hz (example) means that the resolution is 1024 x 768 and the refresh rate is 60 Hertz.

Input Select

Toggles between inputs if you would like to switch D-sub and Client.

M Manual Image Adjust

Displays the Manual Image Adjust menu. You can manually set a variety of image quality adjustments.

Memory Recall

Returns the adjustments back to factory settings if the display is operating in a factory Preset Timing Mode listed in the "Specifications" page.

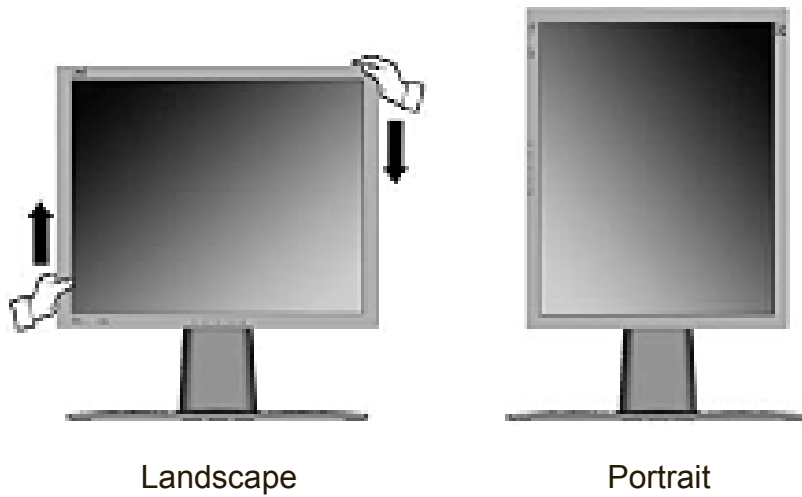**Exception:** This control does not affect changes made with the Language Select or Power Lock setting.

S Setup Menu

Adjusts On-screen Display (OSD) settings.
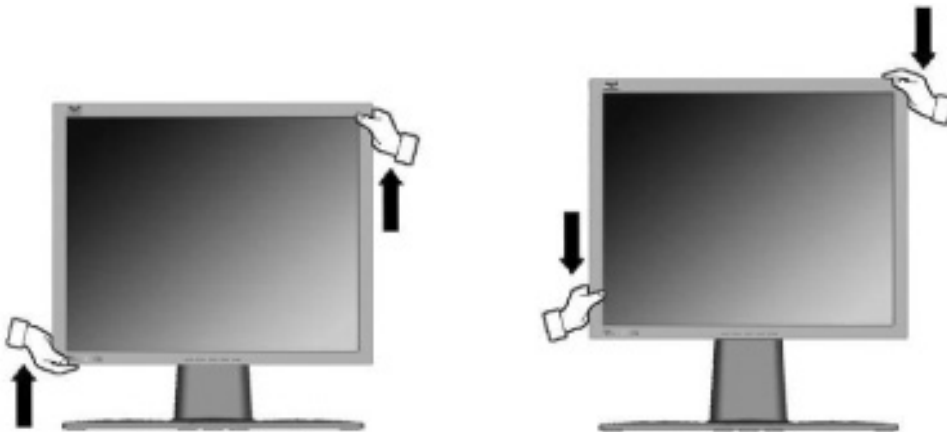
Landscape/Portrait Modes

The LCD display can operate in either Landscape or Portrait mode.

Landscape   Portrait

To Raise and Lower the display

You can easily raise and lower the display panel (the head) manually.

Client System

Client Power Control

The Client power of device is turned off as default. Please refer to below step to turn on Client power.

1. AC power plugs in, press the "Power" button to turn on device and the screen will be on VGA mode.

2. Press "Client" button once, the Client power will be turned on. Meanwhile, the screen will be on Client mode. This action sets WOL function ready and the Client LED will light up in green.

3. The Client screen will be seen around in 15 seconds.

The USB peripheral will not work when the Client power turned off.

Quick Connection

Simply login from the virtual desktop with the default connection setting.
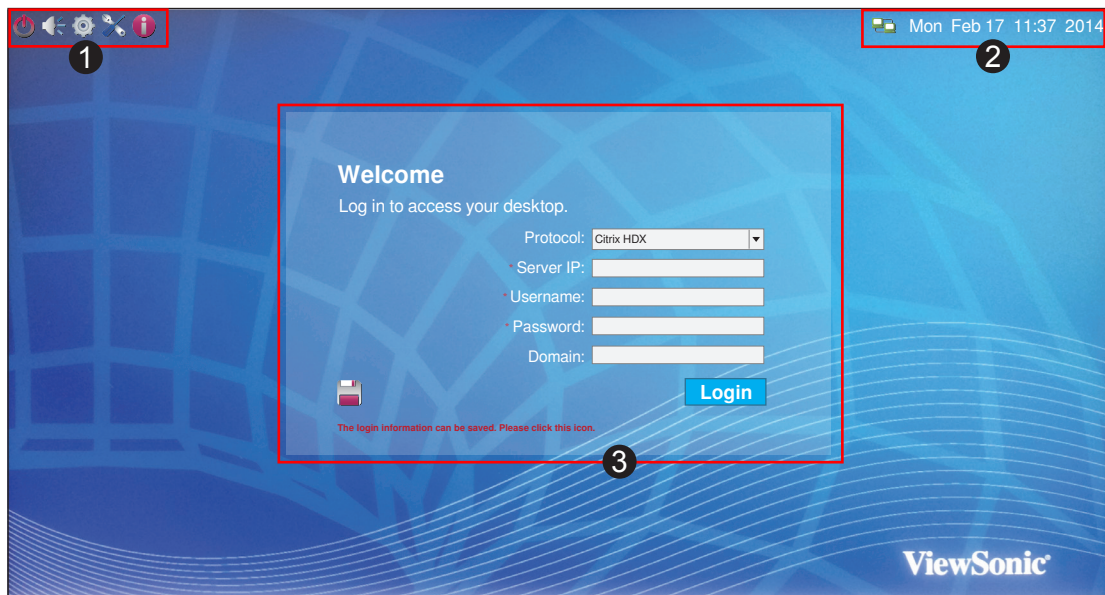
No.	Description
1	Menu items
2	Status row
3	VDI login screen

VDI Login Screen

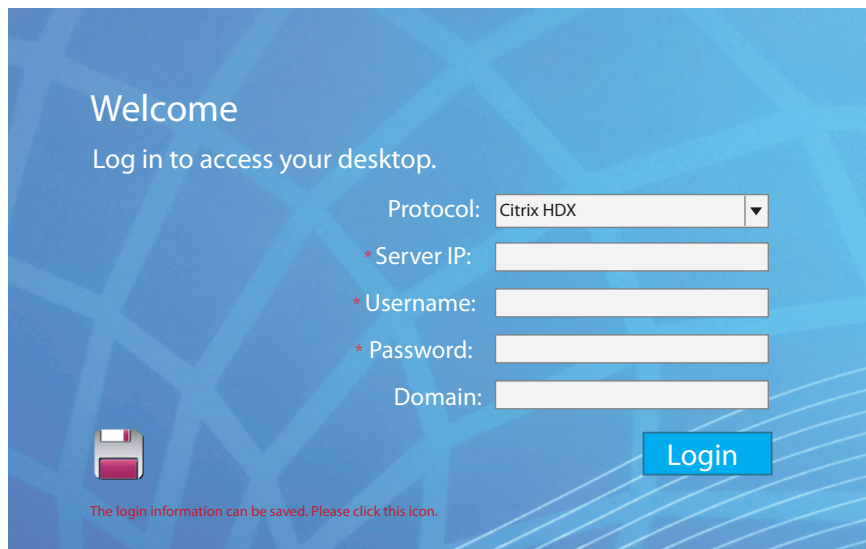| Label	Description
Protocol	Select the connection protocol type. **Citrix HDX**, **Microsoft RemoteFX**, **VMware PCoIP** are provided in this option.
Server IP	Input remote server IP address the user connects to. (Maximum input length: 100 characters)
Username	Input the user account name. (Maximum input length: 30 characters)
Password	Input the user account password. (Maximum input length: 30 characters)
Domain	Input the remote server domain name. (Maximum input length: 30 characters)
*	Indicates this column is required in current protocol type.
	Clicking on this button will save current account information and protocol type as default values.
Login	Pressing this button will pass the connection information to the remote server and login VDI by different protocols: • **Citrix HDX**: shows the Citrix VDI/App list. • **Microsoft RemoteFX**: video output will be changed to single output and 1280x1024 mode. If the NLA certification request from the server IP is already accepted, it will continue to verify the account information and then login VDI. Or it will show the certificate confirmation window. • **VMware PCoIP**: switches to VMware automatic login screen.

Note about display settings with VDI connection:
Changing the screen resolution or single/multiple monitor settings should be done on the local Client. Dynamically modified display setting in VDI will not be applied. Users can log out from the VDI first and then change display settings on the local side. The next time the user logs into the VDI, the connection agent will adapt the VDI display configuration from local-side settings.

Status Row

Icon/Text	Description
	This icon shows the network cable connection status or wireless signal strength. If the wireless USB dongle is plugged in, the displayed icon will appear (see icon to the left). If the wireless USB dongle is not connected, the displayed icon will show a red "X".
Thu Feb 06 19:17 2014	This column shows the local client system date and time. User can update this date/time in the **Time setting** window.

Menu Items

Menu Item	Description
	Open the **Power** menu. It includes **Reboot**, **Power Off**, **Quick Connection** and **Desktop mode** options.
	Use the **Volume Control** tool to set system audio output volume from 0 to 100.
	The **ViewSonic Client Setup** window provides **Desktop**, **Display**, **Keyboard**, **Mouse**, **Network**, **Quick Connection**, **Time** setting functions.
	Open the **Network Test** tool to test if network connection is working.
	The **System Information** window will display network, hardware and software information of client system.

- **Power Menu**
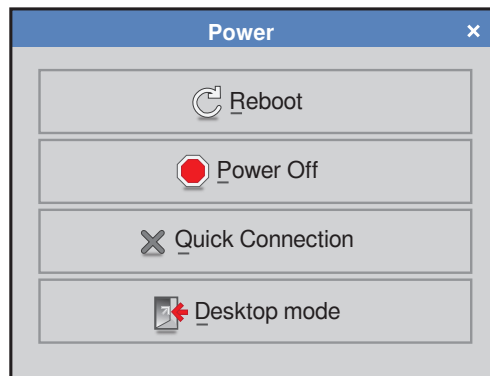
Label	Description
Reboot	Restart the local client system.
Power Off	Shutdown the local client system.
Quick Connection	Close **Power** menu.
Desktop mode	Switch to Desktop mode.

- **Volume Control tool**

Label	Description
─ (Volume bar)	The level value can be set from 0 to 100.

- **ViewSonic Client Setup window**
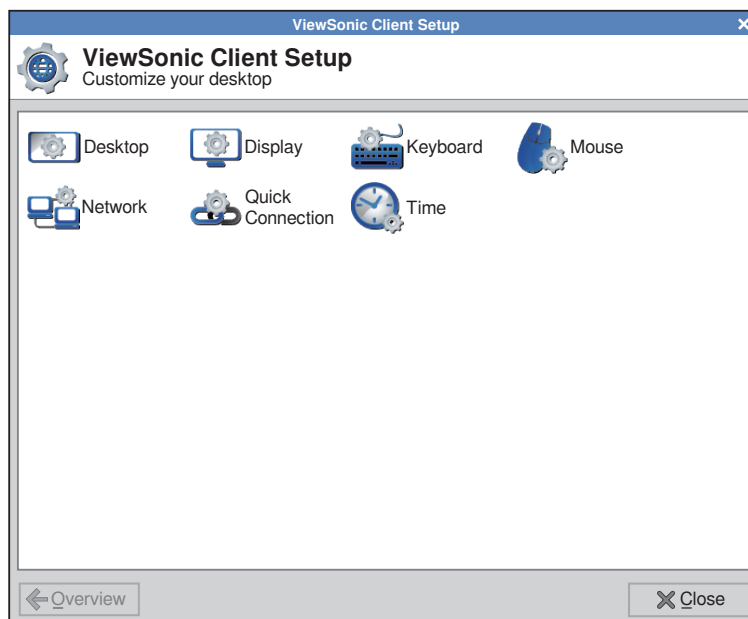
- **Network Test Tool**
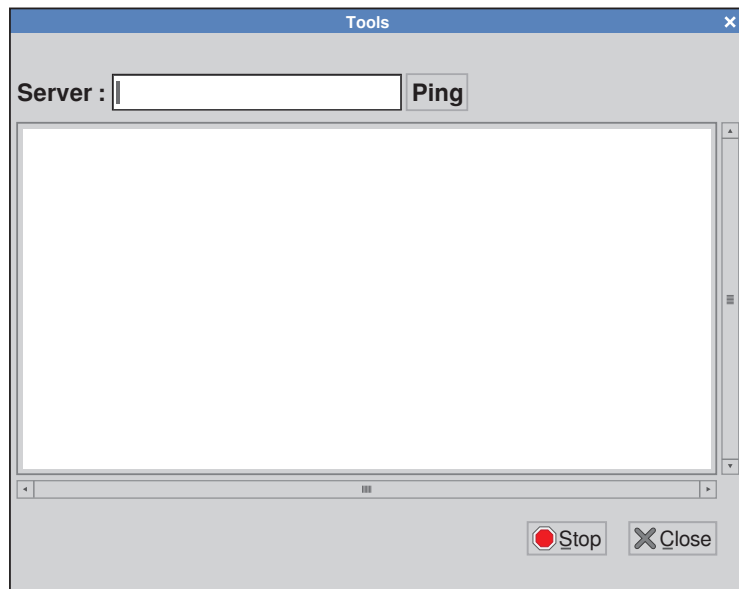
Label	Description
Server	Input the server IP to test if the network connection is working. (maximum input length: 20 characters)
Ping	Start **Ping** action. The ping result will appear in the text area below.
Stop	Stop **Ping** action.
Close	Close network test tool.

Desktop Mode

In the Desktop mode, users can create shortcuts on their desktops through the connection manager and then simply double-click the shortcut to log into virtual desktop/remote applications. Advance options can be adjusted in each shortcut for different user scenarios. In ViewSonic client setup, several functions are provided to administrator for advance control.

No.	Description
1	START Menu
2	Status row

START Menu
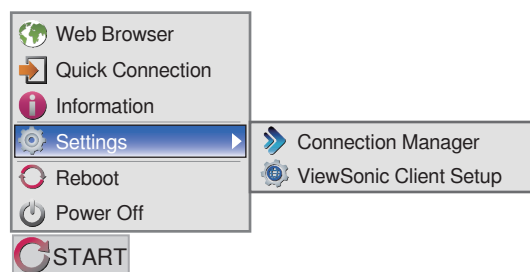
Menu Item	Description
Web Browser	Open local client embedded browser (basic function)
Quick Connection	Switch to Quick Connection mode.
Information	Display software information of client system.
Settings	Select **Connection Manager** and **ViewSonic Client Setup**.
Reboot	Reboot the client system.
Power Off	Shutdown the client system.
START	Open **START** menu.

Status Row

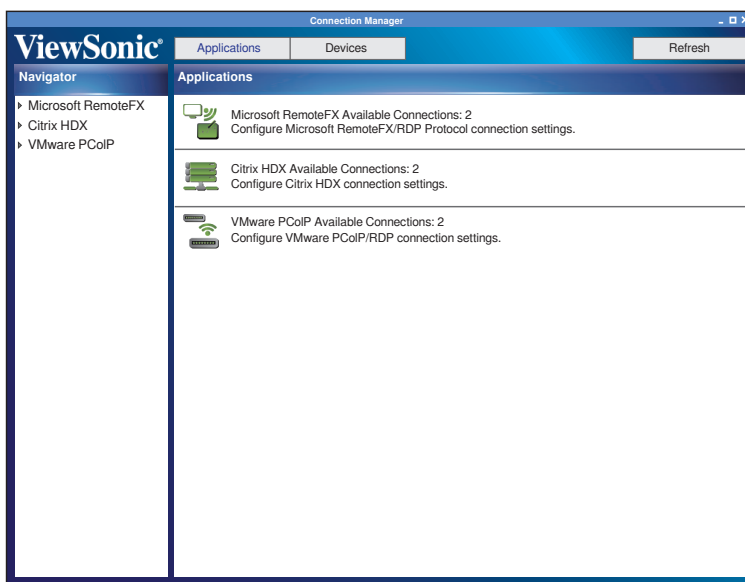| Icon/Text	Description
	This icon shows the network cable connection status or wireless signal strength. If the wireless USB dongle is plugged in, the displayed icon will appear (see icon to the left). If the wireless USB dongle is not connected, the displayed icon will show a red "X".
	Use the **Volume Control** tool to set system audio output volume from 0 to 100.
17:01	This column shows the local client system date and time. User can update this date/time in the **Time setting** window.

Wireless USB dongle is connected	Wireless connection is established	Wireless connection is broken
Network cable is connected		
Network cable is disconnected		

Connection Manager

In the **Applications** section, you can add/edit/delete connection shortcuts for Microsoft RemoteFX, Citrix HDX and VMware PCoIP, and setup advance options for each corresponding protocol.

In the **Devices** page, global settings for VDI/App connections are listed.

Currently, sound recording settings are available.

- **Applications**

Label	Description
Applications	Display **Applications** page.
Devices	Display **Devices** page.
Refresh	Reload connection status which may be modified by **Device Manager**.
Navigator list	Add/Delete connection lists on different protocol.
Applications list	Displays statistics for the 3 protocol connections. Clicking on each protocol row will also switch to the connection list of the corresponding protocol.

NOTE:

4. These characters cannot be used in a connection name: ~ ` ! @ # $ % ^ & * ( ) + = { } [ ] | \ : ; " ' < , > . ? /

5. Blank spaces and the following characters cannot be used in server addresses: ~ ` ! @ # $ % ^ & * ( ) + = { } [ ] | \ ; " ' < , > ? /

- **Devices**

Label	Description
Applications	Display **Applications** page.
Devices	Display **Devices** page.
Navigator list	Clicking on each item will switch to the corresponding setting page.
Devices list	Display global setting items. Every setting on the **Devices** page will affect the VDI/App of all protocols. Clicking on each setting row will switch it to that setting's page.

ViewSonic Client Setup

User mode
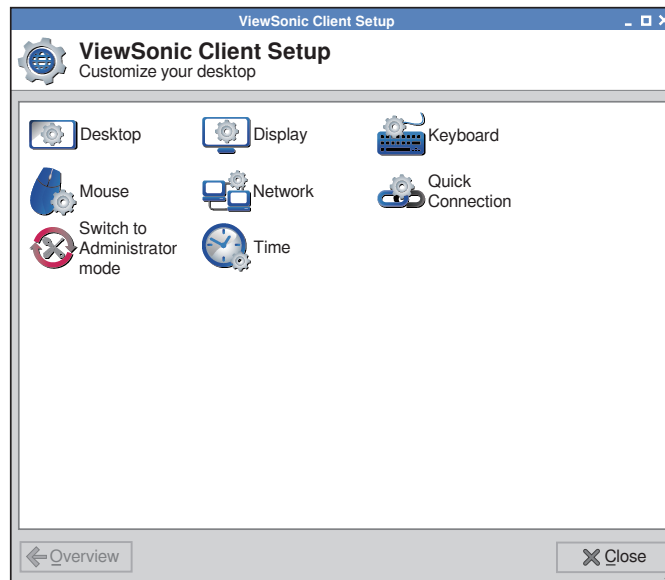
Item	Description
Desktop (*1)	Switch to the **Desktop** setting window to change wallpaper, client name and client system language settings.
Display (*1)	Switch to the **Display** setting window to set screen resolution or dual display mode settings.
Keyboard (*1)	Switch to the **Keyboard** setting window to set keyboard setting and layout settings.
Mouse (*1)	Switch to the **Mouse** setting window to set mouse settings.
Network	Switch to the **Network** setting window to set LAN or wireless network connection settings.
Quick Connection	Switch to the **Quick Connection** setting window to enable/ disable the auto-start Quick Connection interface.
Time	Switch to the **Time** setting window to set system date/time and time zone settings.
Switch to Administrator mode	Switch to the administrator mode menu for advance functions. You will need to input the administrator password to authenticate any changes. **(*2)**
Overview	Goes back to the **ViewSonic Client Setup** menu.
Close	Close the **ViewSonic Client Setup** window.

*1. Some settings need time to be writen on to the configuration files (normally about 5 seconds). If a user shuts down the client just after changes these settings, the modified setting values may be lost.

*2. The default administrator password is "**Administrator**".

Administrator Mode
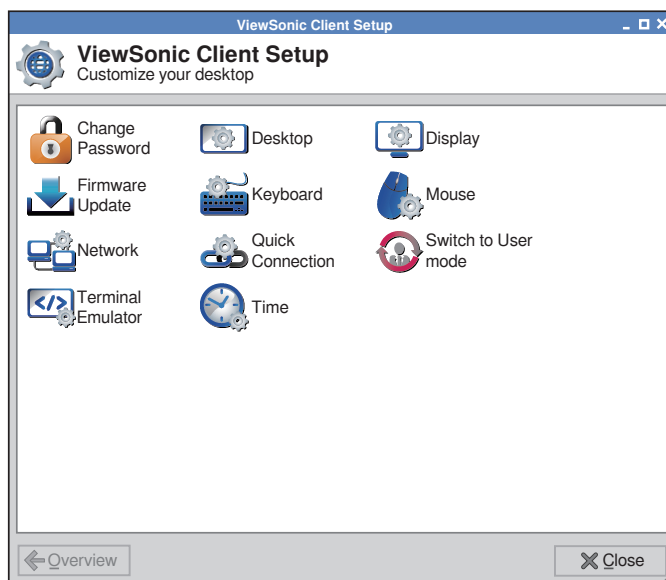
Item	Description
Desktop (*1)	Please refer to user mode descriptions.
Display (*1)	
Keyboard (*1)	
Mouse (*1)	
Network	
Quick Connection	
Time	
Change Password (*3)	Switch to the **Change Password** setting window to change the administrator password.
Firmware Update (*3)	Switch to the **Firmware Update** window to update client firmware/software settings.
Terminal Emulator (*3)	Open terminal for advanced controls.
Switch to User mode (*3)	Switches back to user mode menu.

*3. This function is only available in administrator mode.

- **Display Setting Window**
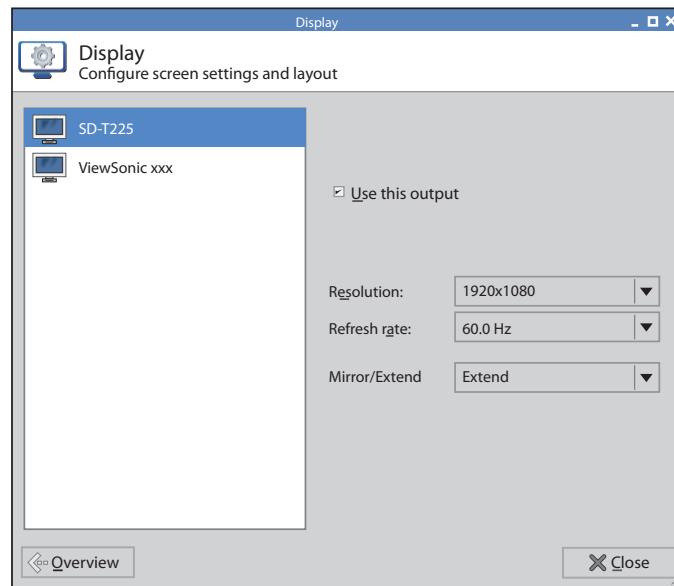
NOTE:

1. DVI-D output does not have hotplug EDID detection functionality. The system only enables DVI-D output if the user plugs in the DVI-D cable before client boot up.

2. Changing the refresh rate resolution will cause a confirmation window to pop up. If the user does not click on "confirm" in 10 seconds, the previous display setting will be restored.

3. If the common mode of two monitors cannot be found, a warning message will pop up and the switching action will be discarded.

- **Firmware Update Window**
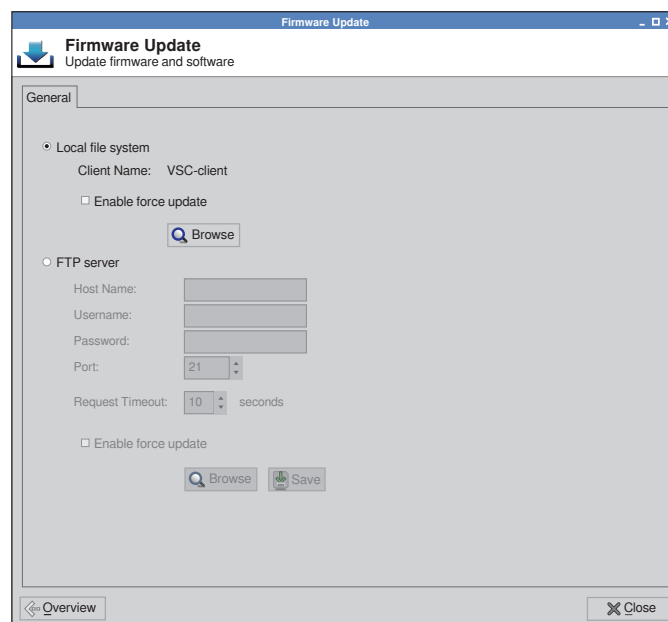
Label	Description
[Local storage block]	
Local file system	Select this item to enable **update from local storage** block.
Enable force update	Check this option to enable the force update mode. Force update does not check firmware versions, but updates only the content files (everything but the firmware version number).
Browse	Lets the administrator select update files. After update files are chosen, firmware update process will start validating the files selected.
[FTP block]	
FTP server	Select this item to enable **update from FTP** block.
Host Name	Input FTP server IP.
Username	Input user name of FTP account.
Password	Input password of FTP account.
Port	Select FTP port number.
Request Timeout	Adjusts the request timeout value. When the administrator clicks the **Browse** button, it will request the FTP server to establish a connection. If the response time is larger than the timeout value, the FTP connecting action will be aborted.
Enable force update	Please refer to the above description in **local storage block**.
Browse	Clicking this button will connect the FTP server and call the file selection window to let administrator select update files on FTP. After update files are chosen, the firmware update process will download the chosen files and start the validation and updating of the firmware.
Save	Clicking this button will save the new setting values in FTP block as default values.

Client Network IP Setting

LAN Setup

- **DHCP settings**
  By default, the client will request DHCP as local IP when the client system boots up. User can check the IP status in the System Information window (in Quick Connection mode) or in the Network setting window (in Desktop mode). If the client IP is not correctly set, users can request DHCP again or set up a static IP.

- **DHCP auto-reconnect function**
  If the network cable is removed accidently, the local IP can be automatically requested again from the DHCP server within 10 seconds of the network cable being replaced.

- **Static IP**
  If a static IP is preferred, users can manually set the IP/Subnet Mask value to the local client. As an option, user can also specify the Default gateway and DNS IP.

Wireless Setup

- **Automatic wireless connecting**
  By default setting, the client will connect to the preferred wireless AP (Access Point) and request the DHCP as client IP when the client system boots up. This depends on whether the system has at least one stored wireless connection and the **Auto connect when system startup** option is enabled.

- **Wireless connection keep alive function**
  In wireless connected status, client system will automatically re-connect to original AP if the AP is temporally unavailable or the wireless USB dongle is plugged out and then plugged in. The system reboot action will trigger "automatic wireless connecting" but this function.

- **Wireless connection setting**
  When the user opens the network setting window, the wireless application will start scanning for connectible AP lists. User can check the AP status and select which AP to connect to. In the AP connection window, the user needs to enter their password and select whether DHCP or static IP is preferred. These settings will then be stored in this AP connection.

  User can also manually add a new AP connection. In the AP connection setting window, user can specify SSID, security type, password, and DHCP/static IP.

- **Gateway priority**
  When a local LAN is connected, it will have a have a higher priority than wireless a gateway. In this situation, the wireless gateway value is disabled.

DHCP options (for Administrator)

DHCP options configuration is the preferred method for rolling out numerous thin clients because it requires the least amount of work. The administrator only needs to unbox the client, connect all the cables and power the device on. If the administrator updates the client locally, they would need to configure each client individually, which requires more effort.

DHCP server settings

A DHCP server is required to enable this feature. Administrators can set DHCP server options as below:

| Option	Description
fileserver	IP or host name of the FTP server. Option code "161" is recommended.
rootpath	Path of the FTP directory for the configuration file and firmware update packages. Option code "162" is recommended.
user-name	Username to login File server. Option code "184" is recommended.
pass-word	Password to login File server. Option code "185" is recommended.

Client settings

By default setting, network is set to DHCP and a client will automatically update specific client's configuration and firmware according to the following option settings inside the booting process. This feature will enable only if network is set to DHCP. Note that the changes will take effect after reboot.

Option	Description
File Server	Option fileserver code on DHCP server. Default setting is "161".
Root Path	Option rootpath code on DHCP server. Default setting is "162"
Username	Option user-name code on DHCP server. Default setting is "184"
Password	Option pass-word code on DHCP server. Default setting is "185"
Enable DHCP Automatic Upgrade	Checked this will enable automatic upgrade specific configuration and firmware update packages from DHCP server when client booting.

Start Local Firmware Update

1. Please click the **ViewSonic Client Setup** in **START** menu and switch to the administrator mode (Default P/W: Administrator).
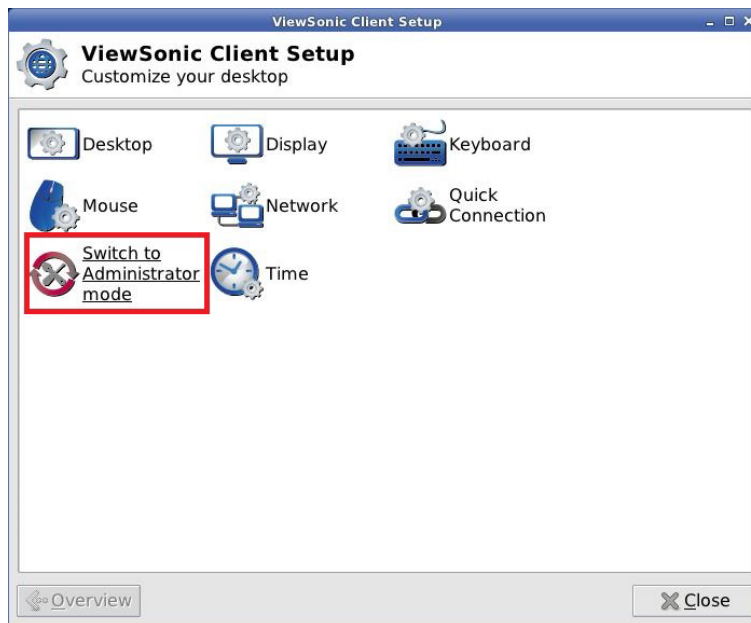
2. Then click the **Firmware Update** application.
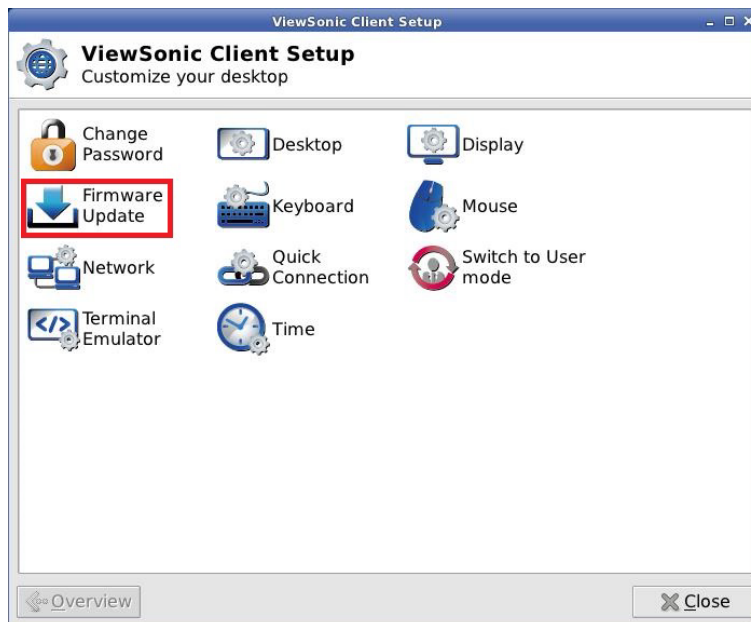
Firmware Update UI

First you need to select loading update files from USB storage device or FTP site. Then FW update process will continue the following validation jobs.

Load update files from USB

1. Click the **Browse** button will pop up the file selection window (default located at / media).
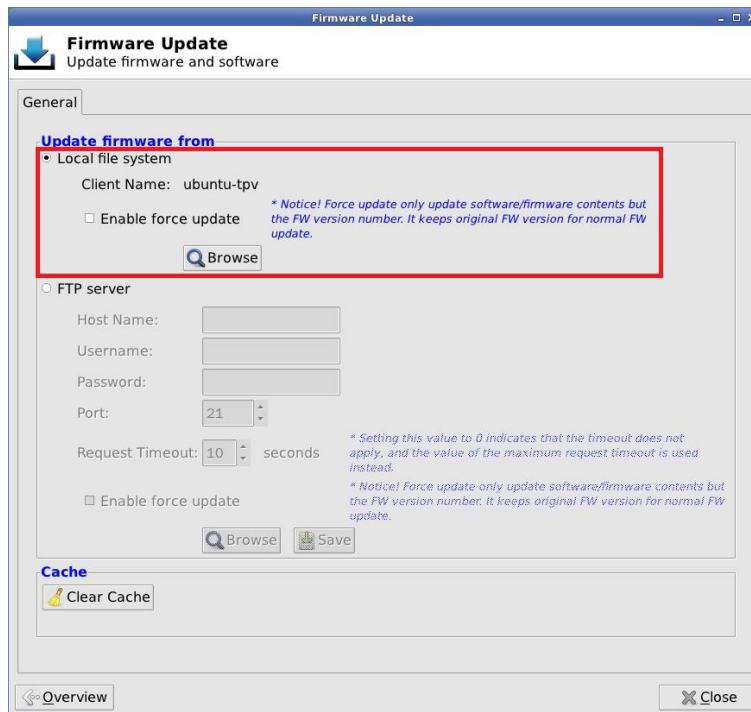
2. Open the USB storage device path and select one or multiple update files.
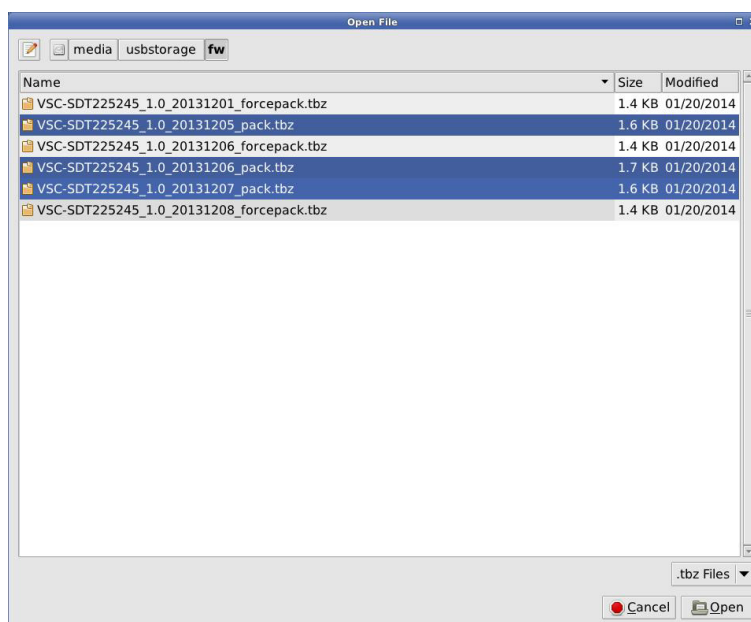
Load update files from FTP

1. Select **FTP server** and input account information. Click the **Browse** button will pop up the file selection window (located at FTP root path).

2. Click the **Save** button to store the FTP user account information.
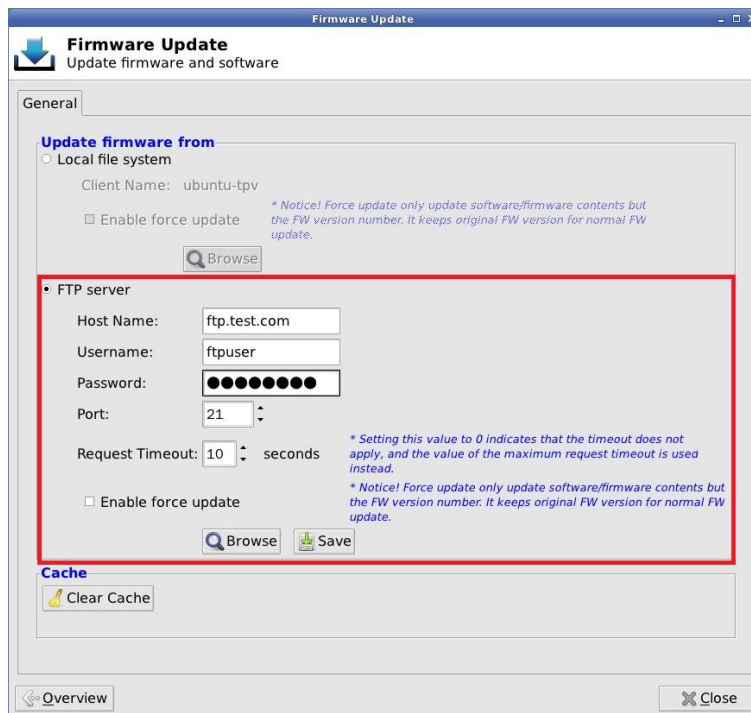
3. Select one or multiple update files.
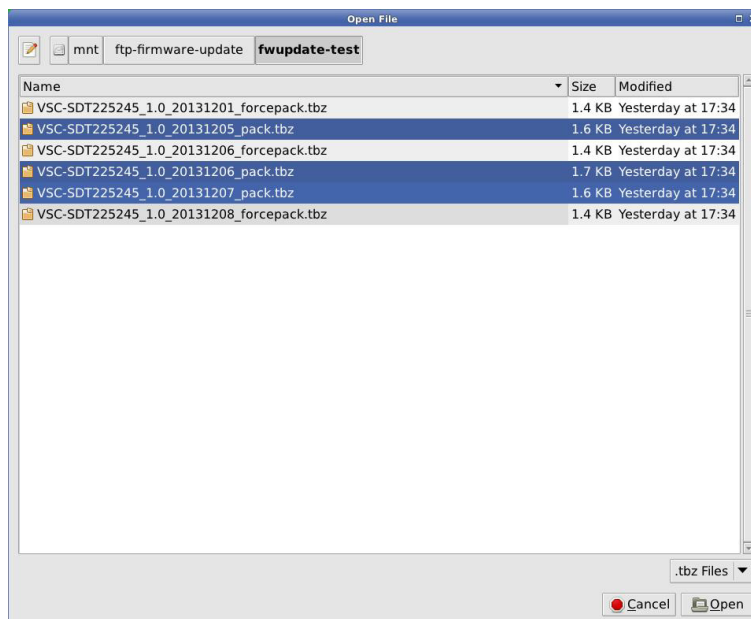
Update files validation

After select update files from USB/FTP, FW update process will start the update files validation.

- **1ˢᵗ REBOOT**

When the update files validation is done, you can see the validation result of each file. The client system need to be rebooted before start FW update. You can press "Reboot" to do 1st client reboot right now or press "Cancel" to do it later.
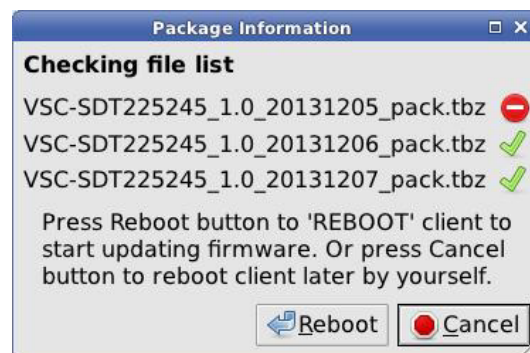
- **Updating firmware files**

After client system reboots, FW update process pops up a message and starts updating files one-by-one.
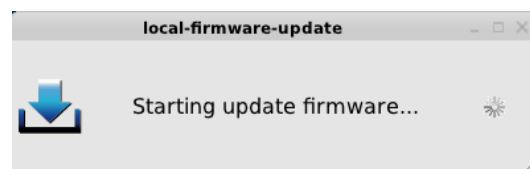
- **2ⁿᵈ REBOOT**

When the update process successfully, a message pops up, then reboot client system again. It makes sure that the new function / bug fixes from update files work well.

Other Information

Specifications

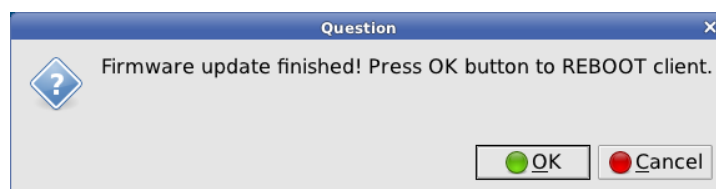|		
Processor		TI DM8148 1GHz
Random Access Memory		1 GB
Flash Storage		4 GB
LCD	Type	TFT (Thin Film Transistor), Active Matrix 1920 x 1080 LCD, 0.248 mm pixel pitch
	Display Size	Metric: 55 cm Imperial: 21.5" (21.5" viewable)
	Color Filter	RGB vertical stripe
	Glass Surface	Anti-Glare
D-SUB Input Signal	Video Sync	RGB analog (0.7/1.0 Vp-p, 75 ohms) Separate Sync f_h:24-82 kHz, f_v:50-75 Hz
DVI-D Output resolution		1920x1080
Compatibility	PC	Up to 1920 x 1080 Non-interlaced
	Macintosh[1]	Power Macintosh up to 1920 x 1080
Resolution[2]	Recommended	1920x1080 @ 50, 60 Hz
	Supported	1680 x 1050 @ 60 Hz 1152 x 870 @ 75 Hz 1600 x 1200 @ 60 Hz 1152 x 864 @ 75 Hz 1600 x 900 @ 60 Hz 1024 x 768 @ 60, 70, 72, 75, Hz 1400 x 1050 @ 60 Hz 832 x 624 @ 75 Hz 1440 x 900 @ 60, 75 Hz 800 x 600 @ 56, 60, 72, 75 Hz 1360 x 768 @ 60 Hz 720 x 576 @ 50 Hz 1280 x 1024 @ 60, 75 Hz 720 x 480 @ 60 Hz 1280 x 960 @ 60, 75 Hz 720 x 400 @ 70 Hz 1280 x 800 @ 60, 75 Hz 640 x 480 @ 50, 60, 67, 72, 75 Hz 1280 x 768 @ 60, 75 Hz 640 x 400 @ 60,70 Hz 1280 x 720 @ 50, 60 Hz 640 x 350 @ 70 Hz 1152 x 900 @ 66 Hz
I/O interfaces		Power input x 1, Earphone output x 1, Microphone input x 1, Audio input x 1, D-SUB signal input x 1, USB port 2.0 x 4, DVI-D signal output x 1, RJ45 x 1
Speaker		2W x 2
Networking		1 x 10/100/1000Mbps Ethernet
WiFi adapter		ViewSonic WPD-100 / VWD01
Power	Voltage	AC 100-240V, 50/60 Hz, 1.5A
Display area	Full Scan	476.64 mm (H) x 268.11 mm (V) 18.77" (H) x 10.56" (V)
Operating conditions	Temperature	+32°F to +95°F (0°C to +35°C)
	Humidity	15% to 90% (non-condensing)
	Altitude	To 16,400 feet

Storage conditions	Temperature	-4°F to +140°F (-20°C to +60°C)
	Humidity	15% to 90% (non-condensing)
	Altitude	To 16,404 feet
Dimensions	Physical	512.4 mm (W) x 367.4 mm (H) x 204.3 mm (D)
		20.17" (W) x 14.46" (H) x 8.04" (D)
Wall Mount	Distance	100 x 100 mm

[1] Macintosh computers older than G3 require a ViewSonic® Macintosh adapter. To order an adapter, contact ViewSonic.

[2] Do not set the graphics card in your computer to exceed these timing mode; doing so may result in permanent damage to the Thin Client Monitor.

Cleaning the Thin Client Monitor

- MAKE SURE THE THIN CLIENT MONITOR IS TURNED OFF.
- NEVER SPRAY OR POUR ANY LIQUID DIRECTLY ONTO THE SCREEN OR CASE.

To clean the screen:
1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.

2. If the screen still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.

To clean the case:
1. Use a soft, dry cloth.

2. If the case still not clean, apply a small amount of a non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

Disclaimer
- ViewSonic® does not recommend the use of any ammonia or alcohol-based cleaners on the Thin Client Monitor screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the Thin Client Monitor.
- ViewSonic will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.

Troubleshooting

No power

- Make sure the power button (or switch) is ON.
- Make sure the A/C or DC power cord is securely connected to the Thin Client Monitor.
- Plug another electrical device (like a radio) into the power outlet to verify that the outlet is functioning correctly.

Power is ON but no screen image

- Make sure the video cable supplied with the Thin Client Monitor is tightly secured to the video output port on the back of the computer. If the other end of the video cable is not attached permanently to the Thin Client Monitor, tightly secure it to the Thin Client Monitor.
- Adjust brightness and contrast.
- If you are using an Macintosh older than G3, you need a Macintosh adapter.

Wrong or abnormal colors

- If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.
- Connect the Thin Client Monitor to another computer.
- If you have an older graphics card, contact ViewSonic® for a non-DDC adapter.

Control buttons do not work

- Press only one button at a time.

Customer Support

For technical support or product service, see the table below or contact your reseller.
NOTE: You will need the product serial number.

Country/Region	Website	T= Telephone C = CHAT ONLINE	Email
Australia New Zealand	www.viewsonic.com.au	AUS= 1800 880 818 NZ= 0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T (Toll-Free)= 1-866-463-4775 T (Toll)= 1-424-233-2533	service.ca@viewsonic.com
Europe	www.viewsoniceurope.com	www.viewsoniceurope.com/uk/support/call-desk/	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 266 0101	service@in.viewsonic.com
Korea	ap.viewsonic.com/kr/	T= 080 333 2131	service@kr.viewsonic.com
Latin America (Argentina)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Mexico)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Nexus Hightech Solutions, Cincinnati #40 Desp. 1 Col. De los Deportes Mexico D.F. Tel: 55) 6547-6454 55)6547-6484 Other places please refer to http://www.viewsonic.com/la/soporte/servicio-tecnico#mexico			
Latin America (Peru)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Macau	www.hk.viewsonic.com	T= 853 2870 0303	service@hk.viewsonic.com
Middle East	ap.viewsonic.com/me/	Contact your reseller	service@ap.viewsonic.com
Puerto Rico & Virgin Islands	www.viewsonic.com	T= 1-800-688-6688 (English) C = http://www.viewsonic.com/la/soporte/servicio-tecnico	service.us@viewsonic.com soporte@viewsonic.com
Singapore/ Malaysia/Thailand	www.ap.viewsonic.com	T= 65 6461 6044	service@sg.viewsonic.com
South Africa	ap.viewsonic.com/za/	Contact your reseller	service@ap.viewsonic.com
United States	www.viewsonic.com	T (Toll-Free)= 1-800-688-6688 T (Toll)= 1-424-233-2530	service.us@viewsonic.com

Limited Warranty
ViewSonic® Thin Client

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The replacement unit will be covered by the balance of the time remaining on the customer's original limited warranty. ViewSonic provides no warranty for the third-party software included with the product or installed by the customer.

How long the warranty is effective:

ViewSonic Thin Client products are warranted for (3) years from the first consumer purchase for parts and labor.

User is responsible for the back up of any data before returning the unit for service. ViewSonic is not responsible for any data lost.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
   b. Any damage of the product due to shipment.
   c. Removal or installation of the product.
   d. Causes external to the product, such as electrical power fluctuations or failure.
   e. Use of supplies or parts not meeting ViewSonic's specifications.
   f. Normal wear and tear.
   g. Any other cause which does not relate to a product defect.
3. Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
4. Removal, installation, one way transportation, insurance, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to Customer Support page). You will need to provide your product's serial number.
2. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.

2. Any other damages, whether incidental, consequential or otherwise.

3. Any claim against the customer by any other party.

4. Repair or attempted repair by anyone not authorized by ViewSonic.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.

The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found in www. viewsoniceurope.com under Support/Warranty Information.