

SMART DISPLAY

VSD220 User Manual



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Model Number: VS15006

Declaration of Conformity

Manufacturer: ViewSonic, 381 Brea Canyon Road, Walnut, California, 91789



We declare under our sole responsibility that this device conforms to the following directives and norms:

- EMC Directive 2004/108/EC:
 - EN 55022
 - EN 55024
 - EN 61000-3-2
 - EN 61000-3-3
- Low Voltage Directive 2006/95/EC
 - Safety: IEC 60950-1:2005
- R&TTE Directive 1995/5/EC:
 - EN300328
 - EN301489-1/-17

FCC Warning



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 when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

This device complies with part 15 of the 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 complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Caution: Exposure to Radio Frequency Radiation.

To comply with RSS 102 RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes

INFORMATION FOR RADIO FREQUENCY DEVICE:

This device complies with part 15 of the FCC Rules / RSS-210. 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.

INFORMATIONS POUR LES DISPOSITIFS À RADIO FRÉQUENCE UNIQUEMENT:

Cet appareil est conforme à l'article 15 des réglementations de la FCC / CNR-210. Le fonctionnement est subordonné aux deux conditions suivantes: (1) ce appareil ne doit pas provoquer d'interférences nuisibles, et (2) ce appareil doit accepter toute interférence reçue, y compris des interférences qui peuvent provoquer un fonctionnement non désiré.



Waste Electrical and Electronic Equipment-WEEE

NOTE: This product is covered electrical and electronic equipment under the European Union's Waste from Electrical and Electronic Equipment ("WEEE") Directive (2002/96/EC). The WEEE Directive requires that covered equipment be collected and managed separately from typical household waste in all EU member states. Please follow the guidance of your local environmental authority or ask the shop where you purchased the product for collection or recycling options.

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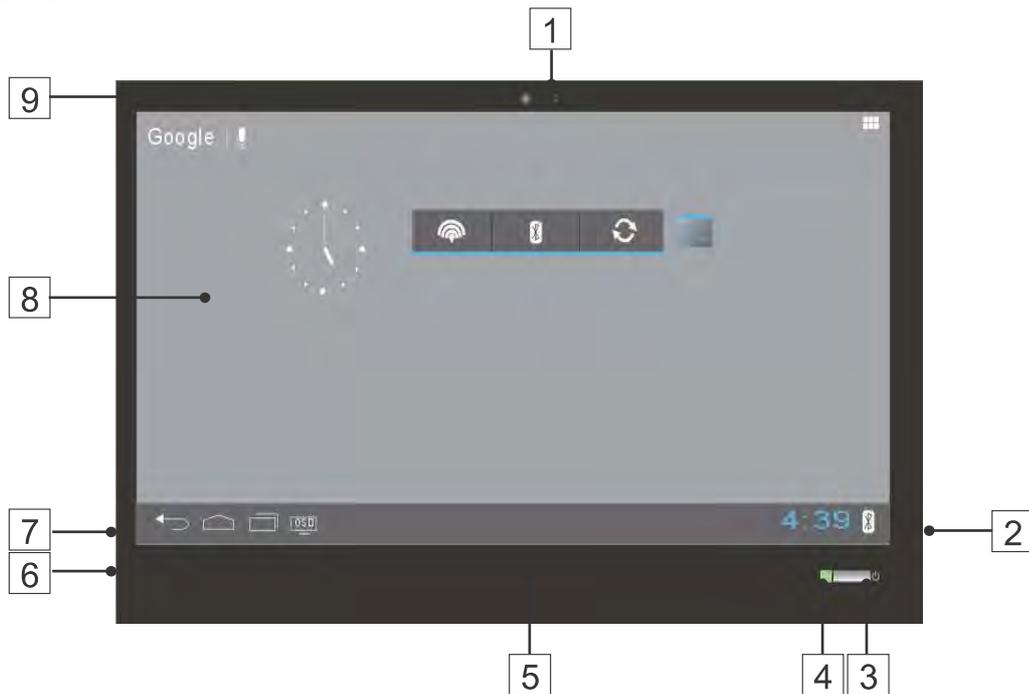
1 VSD220 Smart Display Features

This section introduces you to the features of your Smart Display.

NOTE

- The features or applications described in this User's manual may vary depending on the device model purchased.

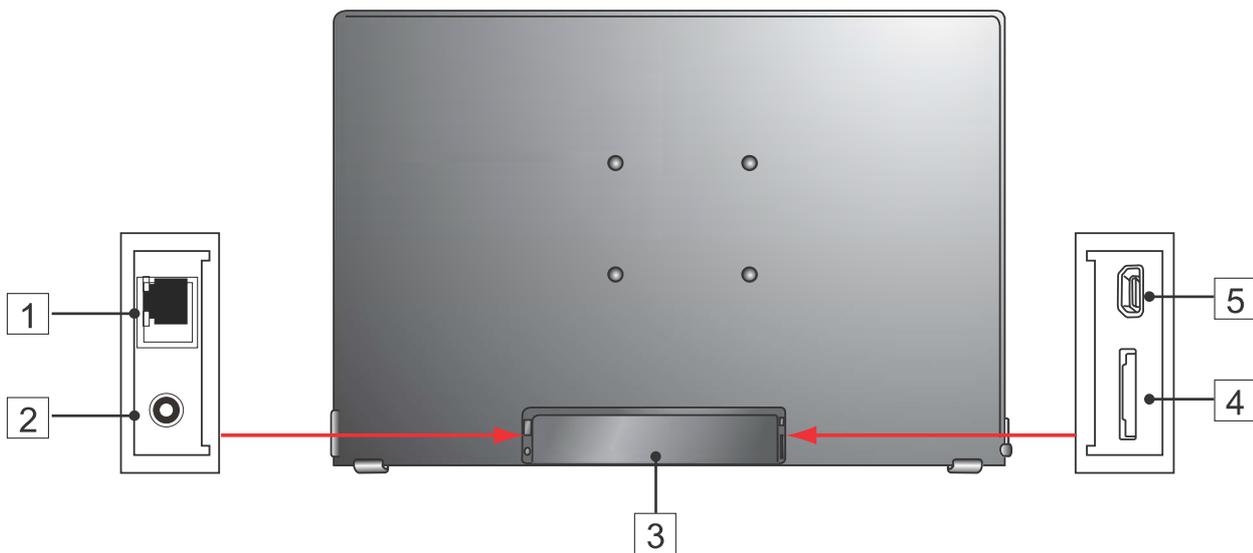
Front View



No.	Components	Descriptions
1	Microphone	Used for making video calls with supportive web applications, such as Google Talk.
2	USB Ports x 2	Used for keyboard, mouse, Flash Disk or printer connections.
3	Power Button	Press and hold to power on/off the device. - Press and Hold about 2-3 seconds to turn on the power (green light) - Press about 0.5 seconds to let the system enter the power saving mode (sleep mode - red light) or wake up the system from the power saving mode) - Press about 3-4 seconds to pop-up a system shutdown or not dialog screen. - Press about 10 seconds to force the system shutdown.
4	LED Indicator	Indicates the status of power. (power on, off or power saving)

No.	Components	Descriptions
5	Speaker	Audio output.
6	Earphone Jack	Connect to earphone or headset.
7	Micro USB Port	Connect to windows computer for data transferring. (Need MTP driver)
8	Touch Screen	Touch the screen to control the on-screen configurations including menu items, applications, buttons, keyboard and so on.
9	Front-Panel Camera	<ul style="list-style-type: none"> - Used for taking a front picture just the same as a self-portrait. - Used for making video calls with supportive web applications, such as Google talk.

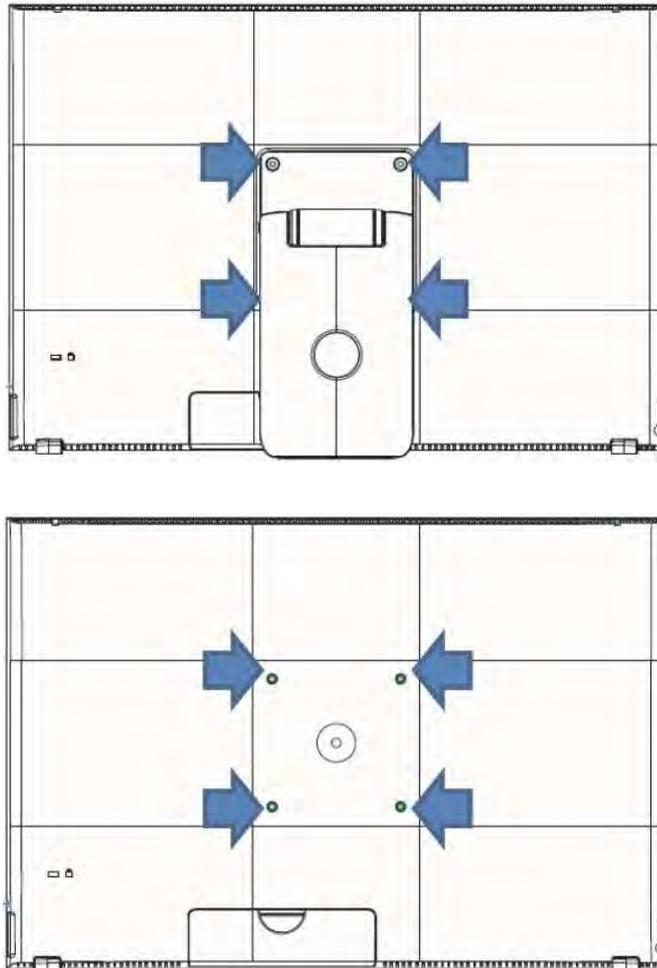
Back View



No.	Components	Descriptions
1	LAN Connector	Connect to a RJ45 cable for network connection
2	DC Jack	Connect to power adapter.
3	Back Compartment	Open the compartment cover on the back of the smart display to connect power adapter, LAN cable, HDMI cable and insert the SD card.
4	SD Card Slot	Input micro SD card to extend storage capacity.
5	Micro HDMI	Connect to digital high quality device for video and audio configurations (e.g. DVD Player, BD Player VPG or Notebook).

1.1 Installing wall mount bracket

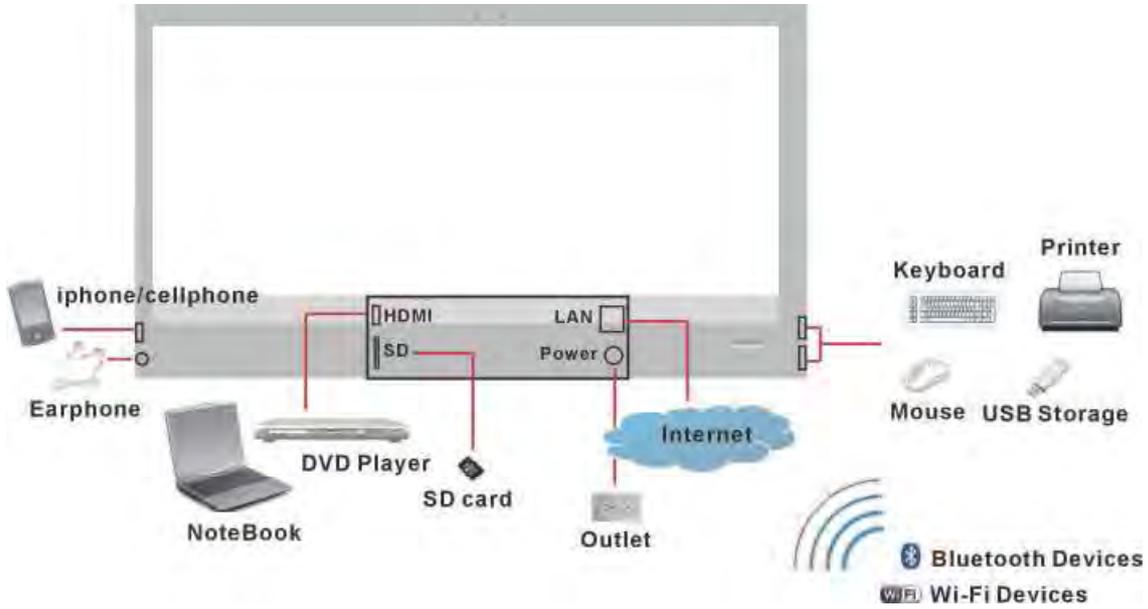
The VSD220 supports wall mount bracket installation. We recommend using mounting interface that comply with TUV-GS and UL1678 standard in North America. Please follow the steps to install your bracket:



- 1** Turn off your monitor and unplug its power cord.
- 2** Lay the monitor face-down on a flat surface. Take care to protect the screen.
- 3** Remove the screws for wall mount and then remove the cover plate.
- 4** Align the wall mount bracket with the holes which are compliant with Video Electronics Standards Association (VESA) standard mounting hole pattern 100mmx100mm in the mounting pad and secure it with the four screws supplied with the arm-type base, wall mount hanger or other base.

2 Set Up Your VSD220 Smart Display

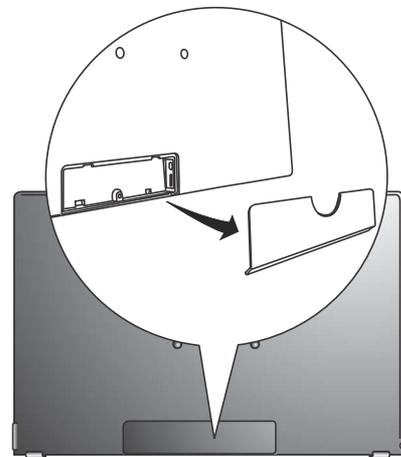
2.1 Connection



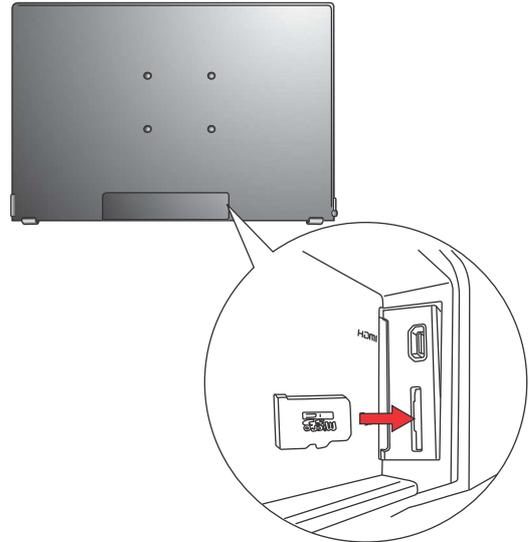
2.2 Get Your Smart Display Ready for Use

Insert the SD card

- 1 Open the compartment cover on the back of the smart display.

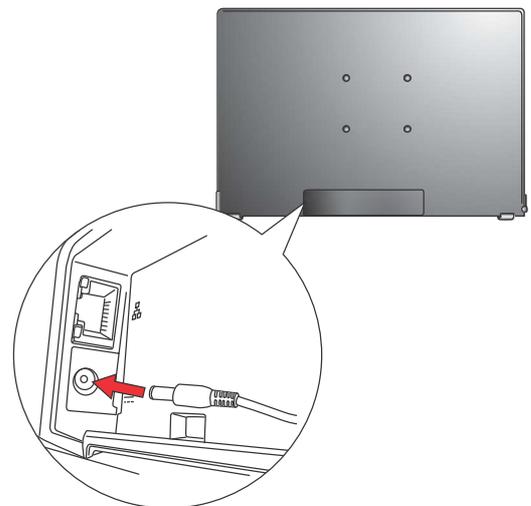


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- 2** Insert a micro SD card if desired and/or available.



Connect the Power Cord

- 1** Open the compartment cover on the back of the smart display.
- 2** Connect the included power cord to the power jack.

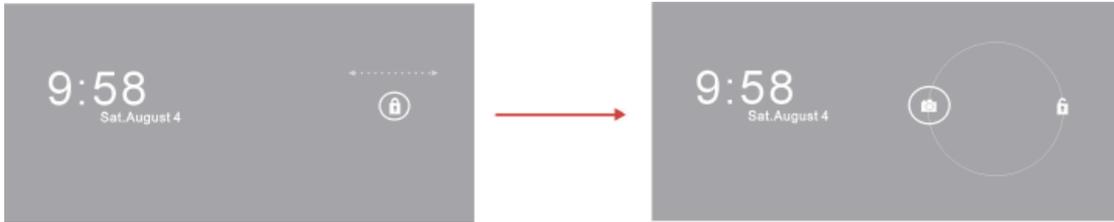


- 3** Connect the other end of the power cord to a suitable power outlet.
-

2.3 Turn On Your Device



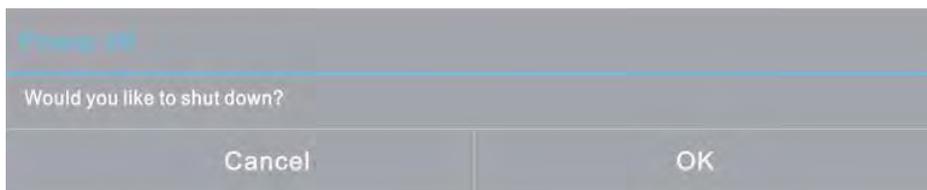
Press and hold power button about 1-2 seconds



Slide the lock icon to unlock the screen

-
- 1 After connecting the power cord, you can press and hold the power button about 1-2 seconds on the lower right corner to power on your device.
 - 2 Once powered-up, the LED indicator will show solid Green.
 - 3 The lock screen will appear after a short boot-up period.
 - 4 Touch and slide the lock icon to unlock the screen.
 - 5 The device is ready for use when the Home screen is displayed.
-

2.4 Turn Off Your Device



-
- 1 Press and hold the power button more than 4 seconds.
 - 2 When the power off menu appears, touch OK.
-

3 About Your VSD220 Smart Display

3.1 Touch Screen

The main way to control the device is using your finger to touch the sensitive surface of the screen directly. You can manipulate icons, buttons, menu items, on-screen keyboard and other items on the touch screen with below methods:

Methods	Descriptions
Touch	Simply touch the items with you finger. <ul style="list-style-type: none"> - Act on items on the screen including application and settings icons. - Type letters and symbols using the on-screen keyboard - Press the on-screen buttons
Touch and Hold	Touch and hold an item on the screen by touching it without lifting your finger until an action occurs.
Drag	Touch and hold an item then move the item with your finger until reaching the target position. <ul style="list-style-type: none"> - Move an item on the screen. - Scroll through Home screens, web pages, lists, entries, photo thumbnails, contacts and so on.
Swipe or Slide	Quickly move your finger across the surface of the screen without pausing when you first touch it.
Zoom Out	Move two fingers close together on the screen to reduce the view of an image or web page.
Zoom In	Move two fingers apart on the screen to enlarge the view of an image or web page.

3.2 Applications, Widgets and Shortcuts

The soft buttons or icons offer a variety of functions and shortcuts. On the Home screen, it is your starting point to access all the features on your device. It displays application icons, widgets, shortcuts and so on.

Applications: Software allows you to perform a specific task. Power on your device, it is preloaded with a variety of applications already. You can also download additional applications from the Google Play Store.

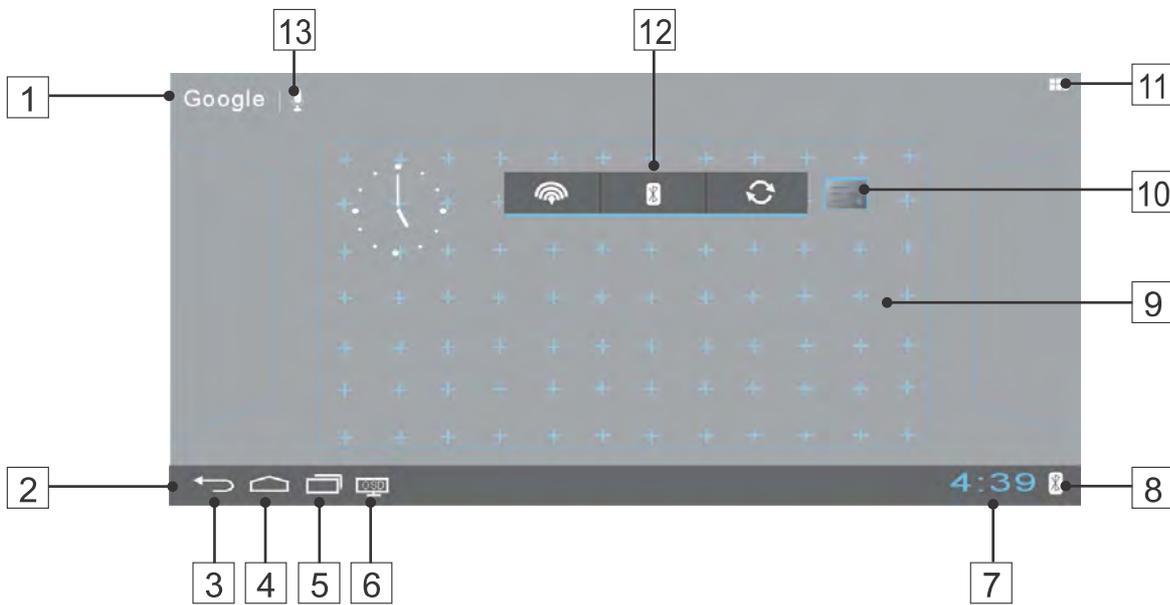
Widgets: Widgets are applications that you can use directly on the Home screen. Example: Analog clock, Bookmark, Picture frame, the Google search bar and so on.

Shortcuts: A link that you can create on your Home screen to provide quicker access to applications you have installed.

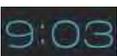
3.3 Home Screen

Once you power on your device, and unlock your screen, the central Home screen will display. You can also touch the  Home button to go to Home screen. On the Home screen, it allows you to access all the features installed in your device.

The Home screen is composed of five screen panels. You can slide your finger to left or right across the central Home screen to view more widgets, shortcuts, and other items located on each screen panel. You can also add shortcuts, widgets or change the desktop wallpaper on each screen panel.



No.	Items	Descriptions
1	Google Search 	Use the Google Search application to search the web faster and easier from Google.
2	System bar 	Located at the bottom of the Home screen including go back, Home screen, recent application, OSD configurations, Time and Bluetooth button.

No.	Items	Descriptions
3	Back 	Return to the previous screen or option.
4	Home 	This button will indicate you to go back to central Home screen at any time.
5	Recent Applications 	Touch this button to show you a list of images about the applications you have accessed recently. You can touch the listed image to open the applications.
6	OSD 	Touch this to open screen display related configurations including Volume, Brightness, Contrast, SRS, HDMI and restore to Default values and so on. OSD can only be operated with touch screen and will not respond to mouse input.
7	Time 	Display the current time.
8	Bluetooth 	Touch Bluetooth button on the right of system bar to pop-up current system configuration screen. In the configuration screen, you can: <ul style="list-style-type: none"> - Configure Wi-Fi - Review all items in the Settings - Configure Notifications to enable or disable - Magnify the Time viewing
9	Place Indicator 	Add items to your Home screen, such as widgets and application shortcuts. Touch and hold the added items, the Home screen will display “+” to indicate the places, select one of suitable place for the added shortcut.
10	Shortcuts 	You can add a shortcut button to the Home screen by touching and holding the specified icon. This icon allows you to open a shortcut item quickly.
11	Apps 	Touch the Apps button to show all of the applications installed on your device.
12	Widgets 	Widgets are small applications that reside on the Home screen to provide quick access to information.
13	Voice Input 	Use voice input as an alternative to text entry via keyboard.

No.	Items	Descriptions
14	Navigation	Flick or drag the screen horizontally until the desired Home screen is displayed.

3.4 Navigation buttons



On the left of system bar, you can find the navigation buttons described as below:

Buttons	Descriptions
 OSD	In the OSD configuration screen, drag the slider bar to adjust Volume, Brightness and Contrast to your OSD. Here you can also configure the SRS and HDMI functions, or touch Default to restore the factory default values.
 Recent Apps.	A short-cut way for you to open recent applications you have accessed. Select and touch one of the images from the list to open the application directly.
 Home	<ul style="list-style-type: none"> - Touch this button to go to the central Home screen when viewing other Home screens. - Touch this button to go back to the last Home screen you have viewed when launching any functions on the device. Or touch this button again to go back to central Home screen.
 Back	<ul style="list-style-type: none"> - Touch this button to go back to the previous screen or option. - If the on-screen keyboard is displayed, the button changes to . Touch it to close the on-screen keyboard.

3.5 Notifications and Status

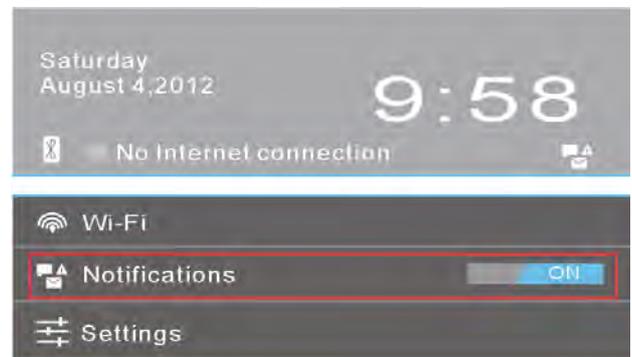


The right side of the system bar displays current time and status buttons.

Area	Descriptions
Time area	Displays the current time.
Notification area	Notification button informs you of new e-mail, messages and so on. Touch it for viewing.
Status area	Show you the current state of your device just like network connections.

3.5.1 Managing Notifications

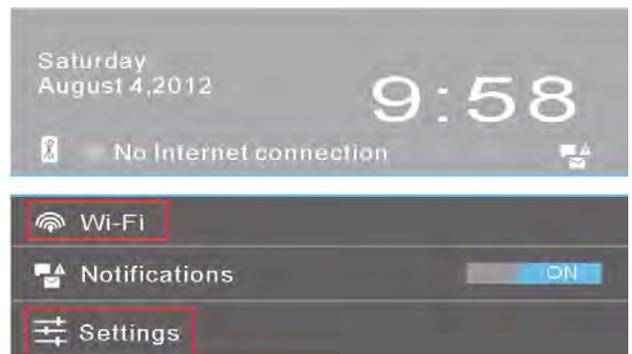
You can touch Time area to pop-up status configuration screen to disable/enable the Notification function. Or touch the notification button directly to view the information.



- Touch notification button to view the detail.
- Touch X to remove a notification
- Touch Time area to view all current notifications

3.5.2 Status Detail

You can touch Time area to pop-up status Detail screen to configure device settings and Wi-Fi. And touch any other area of the screen to close the Status Detail.



- View the detail about date and time
- View the state of network connections
- Touch **Settings** to open Settings configuration screen.

3.6 Customizing Your Home Screen

3.6.1 Add an Item (Shortcut)

- Touch the Home button to go back the central Home screen
- Drag on the screen horizontally to select a Home screen where you want to add the item.
- Touch the **Apps** button  located on the upper right corner of your screen.
- On the **Apps** screen, touch **APPS** or **WIDGETS** tab to enter APPS or WIDGETS configuration screen.
- Select one of **APPS** or **WIDGETS** item that you want to add.
- Touch and hold the item to add it onto the selected Home screen.

NOTE

- If you touch and hold the added item on the selected Home screen without lifting your finger, the Home screen will display “+” to indicate the position where you can place the item.

3.6.2 Move an Item

- On the Home screen, touch and hold the item that you want to move.
- Once you touch and hold the item, the screen will display “+” to indicate the positioning options.
- Move the item to the specified position.
- Then release your finger to add the item to the new position.

3.6.3 Delete an Item

- On the Home screen, touch and hold the item that you want to delete such as a widget or shortcut.
- Once you touch and hold the item, on the top of Home screen will display “**X Remove**”.
- Drag the item onto the top of “**X Remove**”.
- Then release your finger to delete the item.

3.6.4 Change the Wallpaper

- Long Touch (touch and hold) an empty space on the screen.
- A “**Choose wallpaper from**” configuration screen will appear.
- Select one of the wallpaper sources by touching the specified icon.



- (Wallpaper sources: Gallery, Live Wallpapers and Wallpapers)
- In the selected wallpaper source screen, select one by touching it to change the wallpaper. Or touch delete to exit the wallpaper source screen and go back to Home screen.
- Once finishing the wallpaper selection, touch “**Set wallpaper**” to renew the wallpaper of Home screen.
- Some wallpapers allow you to change the wallpaper color, ex. Magic Smoke. If “**Settings...**” displays during the changing wallpaper, touch it and on the top of screen, will display “**Tap to change**”, touch the screen to configure the wallpaper color. Tap the screen to cycle through the different colors.
- You can touch **Back** button to go back previous screen without renew any changed settings.

NOTE

- All Home Screens share the same background. You cannot set different wallpapers for individual Home Screen panels.

3.7 Navigating the Applications

You can find applications available on your device in the All Apps menu:

3.7.1 Apps screen

Open the Apps screen

You can access **Apps** screen from any Home screen by touching the **Apps** button  located on the upper right corner of your screen. The **Apps** screen contains all of the applications installed on the device including those you have downloaded.



Navigate pages of applications

Flick the **Apps** screen horizontally and touch an application to launch it.

Close the Apps Screen

Touch the Home button on the system bar to go back the central **Home** screen.

3.7.2 Application Shortcuts

To quickly launch applications on the Home screen, you can add shortcuts for frequently-used application to the Home screen. For more information, please refer to [3.6 Customizing Your Home Screen](#).

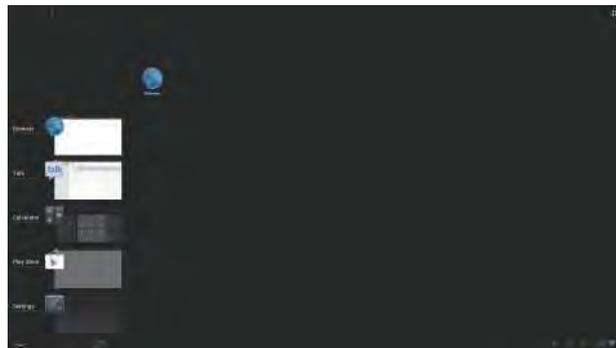


Use the shortcut to open an application

- 1 Touch the Home button on the system bar.
 - 2 If the desired application shortcut displays on the Home screen, touch the shortcut to launch the application.
-

3.7.3 Recent Applications

Open a recently used application



- 1 Touch the Recent Applications button  to view the recently used applications.
 - 2 Scroll the list of recently used applications, and touch the desired application thumbnail to launch the application.
 - 3 Touch the Close button  to close the list of recently used applications.
-

3.7.4 Screen Lock Wallpaper

You can set the display to turn off automatically after a timeout period of inactivity, or turn it off manually by pressing the power button. When you press the power button to wake up the display, the screen lock wallpaper appears to avoid unintentional touch of the screen. When the screen lock wallpaper appears, touch and hold the lock icon, drag it to the edge of the larger circle that surrounds it to unlock the screen. Refer to [2.3 Turn On Your Device](#).

NOTE

- Set the duration of screen to remain on before entering sleeping mode, touch the Home button | Apps button | Settings | Display | Sleep.

4 Using Your VSD220 Smart Display

4.1 Managing Contacts

Touch Home button | Apps button | People to view and manage your contacts.

4.1.1 Add a new contact

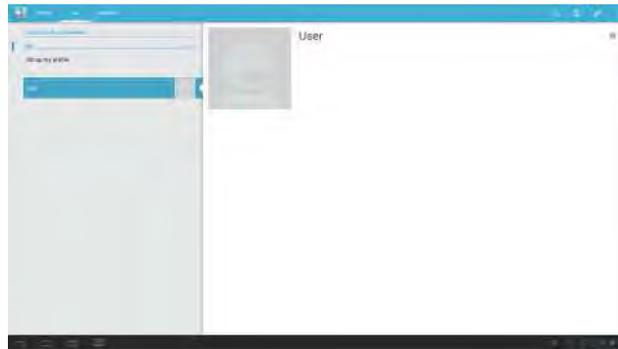


1 Touch  New.

2 Select the account where you want to add this contact, such as your Gmail account.

- This area shows the account in which the new contact is stored.
 - Take photo: Touch to take a photo to use as the contact's visual caller ID.
 - Select photo from Gallery: Touch to select a photo from the Gallery application to use as the contact's visual caller ID.
 - Enter the contact information using the on-screen keyboard. Scroll the screen to find more items to fill.
 - Touch to replace a default information label with another label that you can choose from the list. For example, you can change the label from Home phone number to Mobile phone number.
 - Touch to add a new item to the current information category. For example, you can add a second phone number.
 - Touch to remove an item from the current information category
 - Touch to fill more information about the contact.
 - Touch to display more options.
 - Touch Cancel to return to your Contacts list.
 - Touch **Done** to save the new contact to your Contacts list.
 - Touch to return to your Contacts list.
-

4.1.2 Find a contact



-
- 1 To locate a contact, you can either:
 - Flick the **All** tab contacts list on the upper left of screen until you find the contact. Or, drag the scroll bar on the left of the screen to scroll through the contacts list.
 - Touch  **Find** contacts on the upper right of screen, and then type either the contact's full name or only the first letters of it into the text box. The screen displays the matching contacts.
 - 2 Once the contact is located, touch the contact's entry to view the contact's details.
-

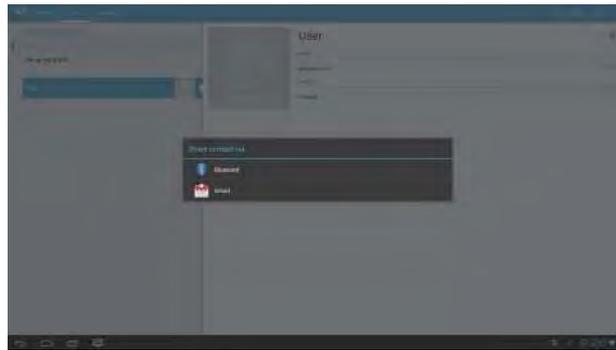
4.1.3 E-mail or send a message to a contact

- 1 On the contacts list, find a desired contact.
 - 2 Touch the contact entry to view the contact details, and then touch to send e-mail using the e-mail accounts you have set up on your device, or touch it to send a message.
-

Edit a contact

- 1 On the contacts list, find a desired contact.
 - 2 Touch the contact entry to view the contact details.
 - 3 Touch  to edit the contact details.
 - 4 Touch **Done** to save the changes.
-

Share a contact



- 1 On the contacts list, find a desired contact.
 - 2 Touch the contact entry to view the contact details.
 - 3 Touch the **Menu** button  on the upper right of screen, then select **Share** contact.
 - 4 From the **Share** contact via menu that appears, select the way you want to share the contact information with your friends, such as through Bluetooth or Gmail.
-

Join contacts

Since your device can synchronize with a variety of accounts, when synchronizing contacts from these accounts with your device, you may have multiple contacts for the same person. Joining contacts allows you to view all the contact's numbers, addresses, and so on, in one single contact entry.



- 1 On the Contacts list, find a desired contact.
 - 2 Touch the contact entry to view the contact details, and then touch **Edit**  on the upper right of the screen.
 - 3 Then, touch the **Menu** button  on the upper right of the screen | **Join**.
 - 4 From the Join contacts list, touch another contact to link, and then touch **Done**. The joined contact's information is displayed with the original **Contacts settings**.
-

In People , touch the **Menu** button  on the device or the Menu button on the screen.

Settings	Descriptions
<p>Accounts NOTE: If you want to synchronize individual data manually, clear Auto-sync, and then from your account, touch a data item to start synchronization of that data. While data is syncing, the sync icon appears on the option of the data being synced.</p>	<p>Contacts stored on your device can be synchronized with a computer using Mobile Sync; contacts stored on your personal e-mail account such as Gmail can be synchronized through an Internet connection.</p> <ul style="list-style-type: none"> • To select the data to synchronize: <ol style="list-style-type: none"> 1 Select Background data to make all the sync options available. 2 Select Auto-sync to let the device automatically synchronize the selected data in your Twitter account or e-mail account, which may include Twitter contacts and data, or Calendar, Contacts, Gmail, and Picasa WebAlbums data. • To select the data to sync from your e-mail account: <ol style="list-style-type: none"> 1 Touch your e-mail account to open the Data & synchronization list. 2 Select the data that you want the device to synchronize automatically, such as Sync Calendar, Sync Contacts, Sync Gmail, Sync Picasa Web Albums.
<p>Import/Export</p>	<p>You can import contacts from SD card to your device, export Contacts from your device to your SD card, and share visible contacts in multiple ways, such as Bluetooth or Gmail.</p>

4.2 Pop-up Menu

Touch the Menu button on the device or the Menu button on the screen to open or close the pop-up menu that lists available options for the current application, or actions that you can perform on the current screen.

Select an option or item on the pop-up menu

- 1 Touch the Menu button on the device or the Menu button on the screen to open the pop-up menu.
- 2 Touch the desired item on the pop-up menu.

4.3 Google Search

You can use the Google Search widget to find websites and information on Google, applications installed on your device, and contacts stored in your Contacts list.



Search by typing

- 1 From the Google Search widget on the Home screen, touch **“Google”** to open the Google Search widget below.
 - 2 Type a keyword or text into the box using the keyboard. As you type, the search results that fully or partially match the text being typed appear.
 - 3 Scroll the listed search results and touch the desired result.
 - 4 The matching application or the browser with matching web links opens.
 - 5 Touch the desired link if you want to view a web page.
-

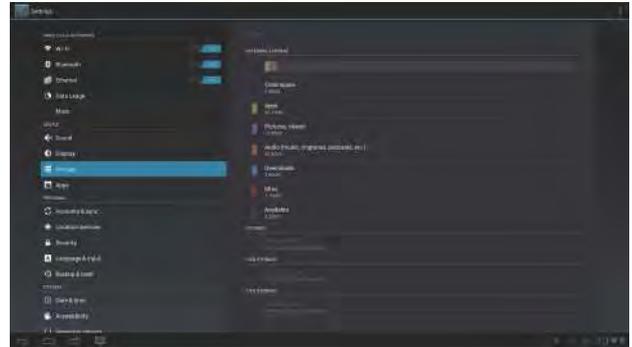
Search by voice

- 1 Touch the microphone  that that appears beside the search box.
 - 2 Say the name or keyword of the item you want to search.
 - 3 The browser with matching web links opens.
-

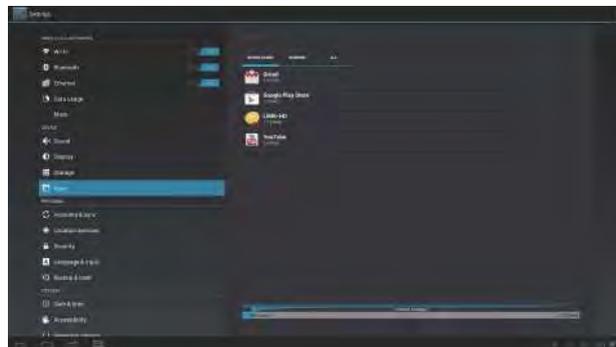
4.4 Managing Your Device Settings

4.4.1 Check storage spaces

Touch the Home button | Apps button | Settings | Storage. The screen displays the total and available space on the device, USB storage and SD card.

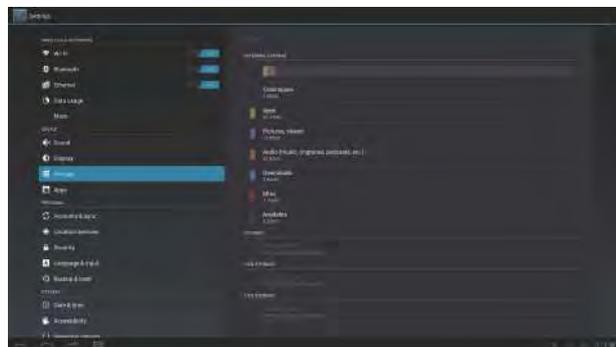


Erase unwanted application data



- 1 Touch the Home button | Apps button | Settings | Apps.
- 2 Touch the application whose cache or data you want to remove.
- 3 Touch **Clear data** under Storage to erase unwanted application data; touch Clear cache under Cache to erase unwanted cache.

4.4.2 Remove the SD card safely



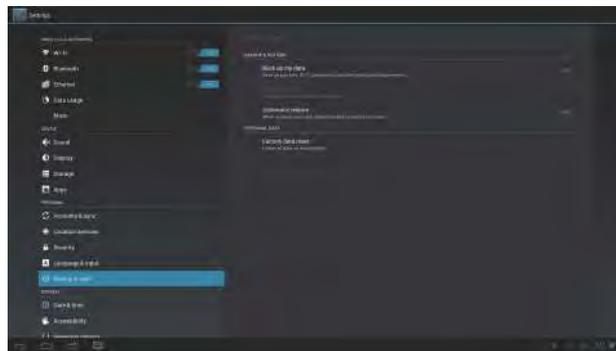
- 1 Touch the Home button | Apps button | Settings | Storage.
- 2 Touch Unmount SD card under the SD Card section.

- 3 Press and hold the Power button until the Power off menu appears. Then, touch **OK** to turn off the device.
 - 4 Pull out the compartment cover and then remove the SD card from your device.
-

NOTE

- Removing the SD card while the device is working may cause data loss or result in application errors. We suggest you unmount the SD card before removing it.

4.4.3 Erase all data from your device



- 1 Touch the Home button | Apps button | Settings | Backup & reset
 - 2 Touch Factory data reset tablet.
 - 3 Touch **“Reset smart display”** to erase everything after you read the warning.
-

NOTE

- Ensure that you have back up all the required data before erasing all data from your device.

4.5 Connecting to HDMI-compliant Devices via Micro HDMI Input

HDMI (High-Definition Multimedia Interface) is a compact audio/video interface for transferring uncompressed digital audio/video data. You can obtain the best user experience for video playback and gaming via HDMI. VSD220 equips with a micro HDMI input for you to connect to an external HDMI-compliant device. You can connect your PC, notebook, Blu-ray player or any other HDMI-compliant devices to VSD220 for high-definition video output.

How to begin

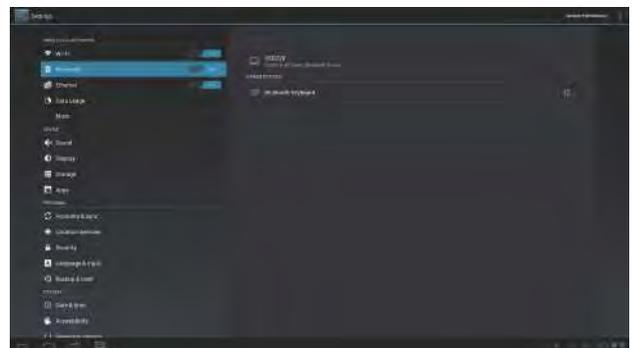
- 1 A type A (HDMI) to type D (micro HDMI) HDMI cable must be prepared.
- 2 Connect the Type A connector of the HDMI cable to the desired HDMI-compliant device.
- 3 Connect the Type D connector of the HDMI cable to the micro HDMI port located on the back of your VSD220.
- 4 For PC or notebook connection, always set the appropriate resolution. VSD220 supports with max. resolution of 1920*1080.
- 5 To enable the touch screen function, connect the micro USB cable to micro USB connector of VSD220 and connect the other end to your PC or notebook.

NOTE

- The touch screen function can be worked in Windows 7 or advanced version without additional driver.

4.6 Bluetooth Connection

Bluetooth is a short-range wireless communications technology that allows your device to connect to other Bluetooth-enabled devices over a wireless network. Bluetooth on your device operates in three different modes:



Status	Descriptions
On	Bluetooth is turned on. Your device is enabled to detect Bluetooth devices within range, but will not be found by them.
Discoverable	Bluetooth is turned on, and other Bluetooth devices can detect your device.
Off	Bluetooth is turned off. Your device cannot send and receive data using Bluetooth.

4.6.1 Turn on Bluetooth and make the device discoverable

- 1 Touch the Home button | Apps button | Settings | Bluetooth.
 - 2 Enable the Bluetooth function by touching “**ON**” to turn on Bluetooth. The Bluetooth icon appears in the status area of the system bar.
-

4.6.2 Pair with a Bluetooth device

- 1 Touch the Home button | Apps button | Settings | Bluetooth. Ensure Bluetooth has been enabled on the device you want to pair with, and the device is in Discoverable state.
 - 2 Touch **SEARCH FOR DEVICES**. Your device starts to scan for Bluetooth devices within range and then displays all detected devices below the **AVAILABLE DEVICES** list.
 - 3 Detect more devices, touch Scan for devices.
 - 4 Initiate a connection with a device; touch the name of the device.
 - 5 You may be prompted to enter a password to authenticate. Enter the same password on both devices, or enter the password provided by the device manufacturer. Ensure that you read the documentation of the pairing device to check if it requires a default password.
 - 6 When the pairing is successful, paired but not connected devices are displayed under the “**PAIRED DEVICES**”.
-

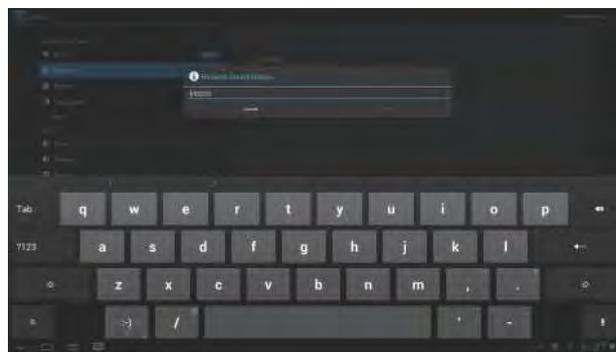
NOTE

1. The message indicating successful pairing may vary depending on the type of the paired device.
2. Pairing is a one-time process. Once your device successfully pairs with another device, your device recognizes that device without the need to re-enter the password.

4.6.3 Terminate a pairing partnership

- 1 Touch the Home button | Settings | Bluetooth.
 - 2 Under the Paired devices section, touch the icon next to a paired device.
 - 3 Touch Unpair to erase all pairing information with that device. You need to re-enter the password if you want to restore a Bluetooth connection to that device.
-

4.6.4 Change your device's Bluetooth name



- 1 Ensure that you have turned on Bluetooth on your device (Icon in the status area of the system bar indicates that Bluetooth is enabled).
 - 2 Touch the **Home** button | **Settings** | **Bluetooth**. Ensure Bluetooth - Device name.
 - 3 Enter a name to identify the device when you connect using Bluetooth.
 - 4 Touch **OK**.
-

5 Internet

5.1 Connecting to the Internet

To browse the web and access web-based utilities such as instant messaging, you can connect VSD220 to a LAN network via RJ-45 cable on LAN connector or set up a Wi-Fi connection.



5.1.1 Wi-Fi connection

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Wi-Fi** to enable Wi-Fi function by touching “**ON**”. The device scans for available wireless networks.
- 2 Touch Wi-Fi settings. The network names and security settings (Open network or Secured with WEP/WPA/WPA2/WPS) of discovered Wi-Fi networks display in the Wi-Fi networks list.
- 3 Flick the list and touch to select a Wi-Fi network you want to connect to.
- 4 Enter a password (if necessary), then touch Connect to connect to the Wi-Fi network.

Connect to a network protected by Wired Equivalent Privacy (WEP), Wi-Fi Protected Access (WPA), WPA2, or Wireless Protected Setup (WPS), you must enter the WEP/WPA/WPA2/WPS security key to obtain authorized access to the network. The next time your device connects to a previously accessed secured wireless network, you will not be required to enter the WEP/WPA/WPA2/WPS key again, unless you reset your device to its factory default settings.

5.1.2 Check the current Wi-Fi network connection

From the status area of the system bar: When your device is connected to a wireless network, the Wi-Fi icon in the status area of the system bar indicates the signal strength (number of bands that light up). If Settings | Wi-Fi | Network notification is enabled, the “?” icon appears in the notifications area of the system bar, as the device discovers an accessible Wi-Fi network within range.

From the Wi-Fi network:

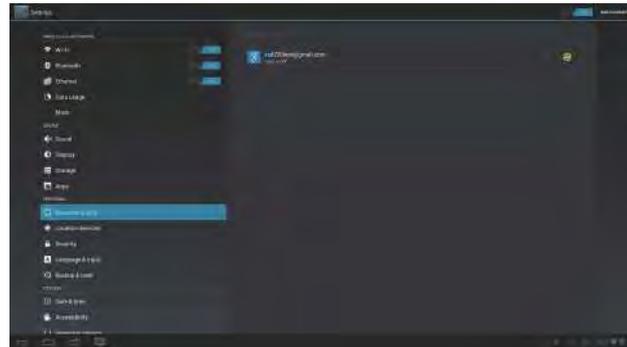
- 1 Touch the **Home** button | **Apps** button | **Settings** | **Wi-Fi**.
- 2 Touch the Wi-Fi network that the device is currently connected to (labeled Connected). A screen opens displaying the Wi-Fi network's name, status, security information, signal strength, link speed, and IP address.
- 3 If you want to disconnect the Wi-Fi network from your device, touch Forget on this screen. You will need to configure the Wi-Fi settings again if you want to restore connection to this wireless network.

5.1.3 Connect to another Wi-Fi network

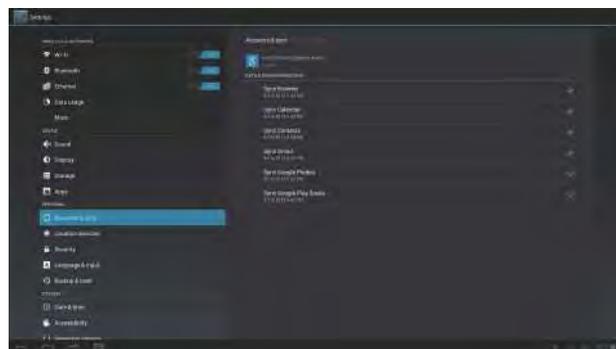
- 1 Touch the **Home** button | **Apps** button | **Settings** | **Wi-Fi**. The detected Wi-Fi networks are displayed in the Wi-Fi networks list.
- 2 Start a new search for available Wi-Fi networks, on the Wi-Fi settings screen, touch the Menu button  on the upper right of screen | Scan.
- 3 Flick through the Wi-Fi networks list and touch the name of the network you want to connect to.
- 4 If the wireless network you want to connect to is not in the list of detected networks, Flick to the bottom of the list to touch Add Wi-Fi network. Enter the Wi-Fi network settings, and then touch Save.

5.2 Synchronizing Your Google Data

Through a web connection, your device can synchronize your Google data including Gmail, calendar, and contacts with your computer or any other device that you use to access your Google account.



Select the applications to synchronize



- 1 Touch the **Home** button | **Apps** button | **Settings** | **Accounts & sync**.
- 2 Under the Accounts & sync. section, touch  icon to select check box to make all the sync options available. Such as Sync Calendar, Sync Contacts, Sync Gmail, Sync Picasa Web Albums.
- 3 If you want to add account for synchronizing, touch "ADD ACCOUNT" on the upper right of screen to make an synchronized account, just like as Corporate, Email or Google.

NOTE

- While data is syncing, the sync icon appears on the option of the data being synced.

5.3 Video Chat

Equipping with a front webcam and a microphone, VSD220 is being able to communicate with other users on the Internet. VSD220 supports various video chat apps comes from Google Play. By default, Google Talk is the most simple video chat application for Android devices and pre-installed already.

Here's a short list of what you will need to use the video chat function of Google Talk:

- VSD220
- Google Account
- People to chat with (who also have a Google account and have been added into your Google Talk friend list)

How to begin

- 1** Authenticate your Google account
You can do this by opening up Google Talk and then signing in to your Google Account. Before using video chat function, you have to sign in your Google Account firstly.

 - 2** Invite the person
Open Google Talk application. Locate to the person in your Google Talk friend list who you want to invite to the video chat. Make sure that the friend who you want to chat with is online. Then tap the specified video button  in the right of your friend's name.

 - 3** Wait for response
Now, it is simply to wait the invited person to join in the video chat. Once your request has been accepted by the invited person, the display will be switched to the video chat window and the chat will begin.
-

6 Customizing Your VSD220 Smart Display

You can customize your device using the options available in the Settings application.

6.1 Display Settings

Change the display settings:

-
- 1 Touch the **Home** button | **Apps** button | **Settings** | **Display**

 - 2 You can configure the Wallpaper, Sleep and Font size here. For Wallpaper, you can also touch and area on the Home screen to open the Wallpaper configuration screen.

 - 3 Enable a setting, touch the setting option to select the check box. Disable a setting, touch the setting option to clear the check box
-

Items	Descriptions
Wallpaper	Refer to 3.6.4 Change the Wallpaper
Sleep	Here you can configure the idling time for entering power saving mode. (e.g. 15 sec., 30 sec., 1, 2, 5, 10 or 30 min. by default, it is set to 30 minutes.)
Font size	Set the Font size to your screen. (Small, Normal, Large or Huge, by default, it is set to Normal)

6.2 Sound and Ringtone Settings

Change the sound and ringtone settings:

-
- 1 Touch the **Home** button | **Apps** button | **Settings** | **Sound**.

 - 2 Select the list to locate and touch a desired option.

 - 3 To enable a setting, touch the setting option to select the checkbox ; to disable a setting, touch the setting option to clear the check box.
-

6.2.1 System settings

Items	Descriptions
Touch Sounds	Select this item check box to enable the touch sounds. By default, it is set to enable.
Screen lock sound	Plays a tone when the screen is locked and unlocked. By default, it is set to enable.

6.2.2 Notifications settings

Items	Descriptions
Notification ringtone	<ol style="list-style-type: none"> 1. Select a desired ringtone for notifications from the Ringtones menu that appears. 2. Touch OK to confirm the selection.

6.3 Date, Time, and Time Zone

Manually set the date, time and time zone:

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Date & time**.
- 2 The related configuration about Date & time will appear on the right section.
- 3 Touch the desired item.
- 4 If you want to automatic date & time, please select the Automatic date & time check box. When this check box is not selected, you can set the date & time by manually.

Items	Descriptions
Automatic date & time	Use network-provide time zone automatically.
Set date	<ol style="list-style-type: none"> 1. Touch Set date item to adjust the day, month, and year; you can also touch the day, month, or year to flick to the desired value. 2. Touch Set to confirm the date.
Set time	<ol style="list-style-type: none"> 1. Touch Set time item to adjust the hour and minute; you can also touch the hour or minute to flick to the desired value. 2. Touch the AM/PM field if the 12-hour format is in use. 3. Touch Set to confirm the time.

Items	Descriptions
Set time zone	Select a city or region that represents the time zone for your device. Touch the Menu button to sort the time zone list alphabetically or by time zone.
Use 24-hour format	Clear this check box to display the time in 12- hour format.
Select date format	Select the format to be used for displaying the date.

6.4 Language & Input Settings

Set the language of the display text:

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Language & input** | **Language**. By default, the Language is set to English.
 - 2 Select a language of your choice from the list that appears.
 - 3 Here also supports you to revise the wording function, select **Spelling correction** check box to enable this function.
 - 4 For extra defined wording, touch the **Personal dictionary**, then touch **ADD** on the upper right of screen to add new defined wordings to your personal dictionary.
-

Set the Keyboard & Input:

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Language & input** | **Keyboard & input methods**
 - 2 To enable a setting, touch the setting option to select the check box; to disable a setting, touch the setting option to clear the check box.
 - 3 You can also touch setting icon for each selection for advanced configurations.
-

NOTE

- Here you can also configure the speech of voice, test output and pointer.

6.5 OSD Settings

Touch the OSD icon on the left of system bar to pop-up OSD configuration screen. Refer to [3.4 Navigation buttons](#). The OSD configuration screen can be used to adjust the volume, brightness, contrast and so on.



6.5.1 Adjustment Bars

Volume:

Touch and drag the slider on the **Volume** bar to adjust the volume. Drag the slider to the right, the volume is louder. By default, the volume is set to 70.

Brightness:

Touch and drag the slider on the **Brightness** bar to adjust the brightness of your screen. Drag the slider to the right, the screen is brighter. By default, the brightness is set to 75.

Contrast:

Touch and drag the slider on the **Contrast** bar to adjust the contrast of screen display. Drag the slider to the right, the contrast is larger. By default, the contrast is set to 75.

6.5.2 Functions Buttons

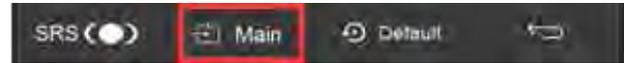
SRS:

SRS (Sound Retrieval System), touch this button to enable SRS function.



Main or HDMI:

- When input source is internal HDMI (Android), this item will show you **HDMI**.
- When input source is external HDMI, this item will show you **Main**.



Default:

Touch **Default** button to restore the Volume, Brightness and Contrast to default value.

Back:

Touch **Back** button to close the OSD configuration screen and go back to the original processing screen.

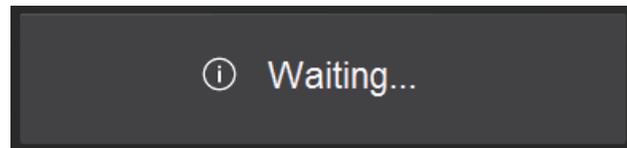
NOTE

- OSD language supports English, Deutsch (German), Francais (French), Italian, Spanish, Japanese, Simplified Chinese and Traditional Chinese.

6.5.3 OSD Notice

Waiting:

The **Waiting** notice screen will pop-up during your OSD configurations.

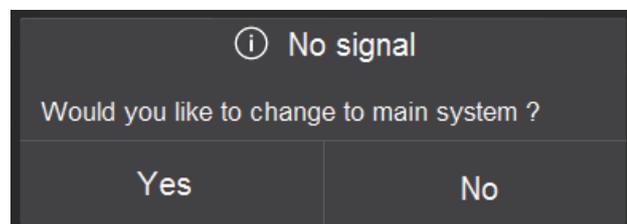


No signal:

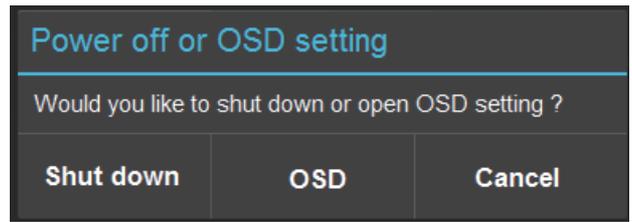
The connection for your HDMI is not ready.

The connection between HDMI device and your smart display is not normalization.

The **No signal** information screen will pop-up as below:



Power off or OSD setting for HDMI source:



7 Protecting Your VSD220 Smart Display

7.1 Protect Your Device Data with a Screen Unlock Pattern

You can protect your device data against unauthorized access by locking the touch screen with a screen unlock pattern. Once the unlock pattern is enabled and the screen is locked, you need to draw the correct unlock pattern to unlock the screen.

After you fail to draw the correct unlock pattern on the screen for five consecutive times, you will be asked to wait for 30 seconds before you can try again. If you no longer remember your screen unlock pattern, follow these steps to unlock your screen:

-
- 1 Touch **Forgot** pattern.
 - 2 When prompted, sign in to the Google website using your Google account name and password.
 - 3 Draw a new screen unlock pattern.
-

7.1.1 Create a screen unlock pattern

-
- 1 Touch the **Home** button | **Apps** button | **Settings** | **Security**.
 - 2 Touch **Screen Lock** section → **Pattern**.
 - 3 Read the instructions on the screen and study the animated example of how to draw a pattern. Then, touch **Next** when you are ready to draw your own pattern.
 - 4 Drag your finger to draw the unlock pattern by connecting at least four dots in a vertical, horizontal and/or diagonal direction. Take your finger off the screen when a pattern is drawn.
-

NOTE

- You must touch and drag your finger on the screen to create the pattern.

- 1 The device records the pattern if it is correctly drawn. Touch **Continue**.
 - 2 Draw the pattern again as prompted, and then touch **Confirm**.
-

NOTE

- If you want to change your unlock screen pattern, you need to draw the old pattern to confirm before creating a new pattern.

7.1.2 Change unlock pattern settings

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Security**.
 - 2 Once the pattern setting is enabled; under the **Screen lock**, Unselect **Make pattern visible** check box if you do not want the lines of the unlock pattern to display on the screen when you draw it.
-

7.2 Disable the screen unlock security

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Security**.
 - 2 Select **None** to disable screen unlock security.
-

7.3 Protect Your Device Data with a PIN

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Security**.
 - 2 Touch **Screen Lock** section → **PIN**.
 - 3 On the Choose your PIN screen appears, enter a PIN in the textbox. Your PIN must be 4 characters at least.
 - 4 Touch **Continue** to proceed.
 - 5 Enter the PIN again to confirm.
 - 6 Touch **OK**.
-

7.3.1 Disable or change PIN

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Security**.
 - 2 Touch **Screen Lock** section.
 - 3 Enter the PIN code you have configured, and then touch **Continue**.
 - 4 Select **None** secured to disable the PIN; select **PIN** to change PIN code.
-

7.4 Protect Your Device Data with a Password

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Security**.
 - 2 Touch **Screen Lock** section → **Password**.
 - 3 On the Choose your password screen appears, enter a password in the text box. A valid password consists of at least 4 characters and contains at least one letter.
 - 4 Touch **Continue** to proceed.
 - 5 Enter the password again to confirm.
 - 6 Touch **OK**.
-

7.4.1 Disable or change the password

- 1 Touch the **Home** button | **Apps** button | **Settings** | **Security**.
 - 2 Touch **Screen Lock** section.
 - 3 Enter the **password** you have configured.
 - 4 Select **None** secured to disable the password; select **Password** to change the password.
-

NOTE

- Once the screen lock is secured with Pattern, FaceUnlock, Pin and Password, the **Automatically lock** will appear under **Screen lock**. By default, it is set to 5 seconds after entering sleeping mode.

7.5 Protect Your Device Data with Face Unlock

With Android 4.0 Ice Cream Sandwich, Google is introducing a new way to unlock your devices via front camera. The facial recognition unlock feature called Face Unlock will be an integral part of Android OS. Follow the steps to get the Face Unlock feature set up on your device:

-
- 1** Touch the **Home** button | **Apps** button | **Settings** | **Security**.

 - 2** Touch **Screen Lock** section → **Face Unlock**.

 - 3** On the right half of the display, it will tell you that Face Unlock is not as secure as other unlock options. Ensure that you have read all the warning messages and then select **Set it up**.

 - 4** You'll now be taken to a screen that gives you some hints on how to setup the photo of your face that will act as the unlocking mechanism on your device. Take heed and select **Continue**.

 - 5** You will then see your face by courtesy of VSD220's front camera. Move a little away from the front camera so your face fits in the Show Your Face screen. Center your face in the outlined area. You will receive a Face Captured screen if the Face Unlock setup was successful and then select **Continue**.

 - 6** Once the Face Unlock is set to your face, you will be prompted to now set up a backup lock. In case the device does not recognize you (this can happen for a bunch of reasons) it will revert to another method for secure unlocking of the phone. Choose one of the two backup methods listed; Pattern or PIN. For a Pattern unlock, slide your finger to connect at least four dots in any pattern of your choosing. Repeat the pattern to confirm the choice. For a PIN unlock, simply input a four digit PIN and repeat to confirm.

 - 7** Touch **OK** to finish the setup.
-

7.6 Power Saving Feature

In order to save energy, this device supports power saving mode (sleeping mode). The device will enter power saving mode when you idle without processing. Then, the screen will go off. You can set the duration of screen to remain on before entering sleeping mode, touch the **Home** button | **Apps** button | **Settings** | **Display** | **Sleep**.

7.7 Power Management Information

Please turn off the product when it will not be used for long time. This could potentially increase the life and decrease the power consumption of the product.

Power Indicator

	LED Status
Power ON	Green
Power Standby	Red
Power OFF	LED OFF

Power On – In off mode, push the power button 1-2 seconds to enter power on mode

Power Standby – In power on mode, push the power button to enter standby mode

Power Off – In power on mode, push the power button more than 4 seconds and select “OK” in the dialog box to enter off mode

8 Troubleshooting

8.1 Messaging Problems

Problems	Causes	Solutions
Unable to send or receive text messages.	The signal strength is not strong enough.	Try moving to a different location for better signal reception.
Unable to send or receive e-mail.	The Internet connection or the e-mail setting is not configured properly.	Check your network connection, and confirm with your e-mail service provider if your e-mail setting has been configured correctly.

8.2 Internet Problems

Problems	Causes	Solutions
Unable to connect to the network.	You are not within the network's service area.	Check the service area with your service provider.
	Poor signal.	Move to an open space or if you are inside a building move closer to a window.

9 Appendix

Specification

LCD Spec.

Size	21.5"
Resolution	1920x1080
White Luminance	250/200 (Max./typ)
Contrast Ratio	1000/700 (typ/min.)
Response time	5ms (typ)
Viewing Angle	170/160 (horizontal/vertical)

System

Operating System	Android ICS 4.0.4
CPU	TI OMAP 4430, Dual-core ARM® Cortex-A9, 1GHz
System Memory	DDR2 1GB
Storage	eMMC 8G
WLAN/Bluetooth	802.11b/g/n + Bluetooth V2.1
Camera	Front: MIPI 1.2M - HD
Microphone	Internal MIC x1, digital type
LED Indicator	Green (on) / Red (saving)
Power Switch	One standby power button (power on/off/suspend/resume)
I/O ports	HDMI x 1 (Micro type) USB x 2 USB x 1 (Micro type, supports OTG) 3.5mm Headphone-out LAN (RJ45, supports 100Mbps only) DC Jack (ID 1.7mm, OD4.0mm) SD card slot (Micro type)
Touch screen	Optical touch type, with glass
Touch controller	One touch & Gesture
Speakers	1W x 2
Adapter (DC)	Input: 100~240Vac, 50-60Hz, 1.2A Output: DC Jack 19V, 2.1A, 40W max.
Power Consumption	30W typ.
Power Save	Standby mode < 1W, Off mode < 0.5W
Stand	Photo-frame type
VESA mount	Optional
Dimension	512.8 mm (L) x 353 mm (H) x 24.8mm (W)
Weight	Gross: 5.8kg Net: 4.8Kg

Operation environment

Temperature +0°C~+40°C

Humidity 5%~85%

Air pressure 86~106 Kpa

Storage environment

Temperature -20°C~+60°C

Relative Humidity 20%~95%

Air pressure 86~106 Kpa

Radiation Solar heat 1.12 kWh/m² (IEC68-2-5, 72hrs)

Accessories

Power cord (1.8M)

Power adapter