SAMSUNG Interactive Display

User Manual

WA65F WA75F WA86F

The colour and the appearance may differ depending on the product, and the content in the manual is subject to change without prior notice to improve the performance.

Recommended hours of use per day of this product is under 12 hours. If the product is used for longer than 12 hours a day, the warranty may be void.

[For India Only]

This product is RoHS compliant. For more information on safe disposal and recycling visit our website www.samsung.com/in or contact our Helpline numbers -1800 40 SAMSUNG (1800 40 7267864) (Toll-Free) 1800 5 SAMSUNG (1800 5 7267864) (Toll-Free)

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Chapter 01 Before using the product

Safety precautions

The following safety instructions are to ensure your personal safety and prevent property damage. Please read the following to ensure the proper use of the product.

Safety symbols

| | Symbol | Name | Meaning | |
|---|--|-------------|--|--|
| | Warning A serious or fatal injury may result if instructions are not followe | | | |
| _ | | Caution | Personal injury or damage to properties may result if instructions are not followed. | |
| _ | Operation Do NOT attempt. | | | |
| | 0 | Instruction | Follow directions. | |

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

| Ŷ ŗ | This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product. | \sim | AC voltage: Rated voltage marked with this symbol is AC voltage. |
|------------|---|--------|--|
| 1 | This symbol indicates that this product has included important literature concerning operation and maintenance. | | DC voltage: Rated voltage marked with this symbol is DC voltage. |
| | Class II product: This symbol indicates that a safety connection to electrical earth (ground) is not required. If this symbol is not present on a product with a mains lead, the product MUST have a reliable connection to protective earth (ground). | Âi | Caution. Consult instructions for use: This symbol instructs the user to consult the user manual for further safety related information. |

Storage

Due to the characteristics of high-glossy products, using a UV humidifier nearby may create white-coloured stains on the product.

Contact Customer Service Centre if the inside of the product needs cleaning (service fee will be charged).

Electricity and safety

🕂 Warning

- O not use a damaged power cord or plug, or a loose power socket. An electric shock or fire may result.
- O not use multiple products with a single power socket. Overheated power sockets may cause a fire.
- O not touch the power plug with wet hands. Otherwise, an electric shock may result.
- O not bend or pull the power cord with force. Be careful not to leave the power cord under a heavy object.

Damage to the cord may result in a fire or electric shock.

- O not place the power cord or product near heat sources. A fire or electric shock may result.
- Insert the power plug all the way in so it is not loose. An unsecure connection may cause a fire.
- Connect the power plug to a grounded power socket (type 1 insulated devices only).

An electric shock or injury may result.

Clean any dust around the pins of the power plug or the power socket with a dry cloth.

A fire may result.

🕂 Caution

- O not disconnect the power cord while the product is being used. The product may become damaged by an electric shock.
- Only use the power cord provided with your product by Samsung. Do not use the power cord with other products.

A fire or electric shock may result.

- Keep the power socket where the power cord is connected unobstructed. The power cord must be disconnected to cut off power to the product when an issue occurs.
- Hold the plug when disconnecting the power cord from the power socket. An electric shock or fire may result.

Installation

🕂 Warning

- O NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES. A fire may result.
- O not install the product in poorly ventilated spaces such as a bookcase or closet. An increased internal temperature may cause a fire.
- O not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.)
 - The product may fall and become damaged and/or cause an injury.
 - Using the product in an area with excess vibration may damage the product or cause a fire.
- Do not expose the product to direct sunlight, heat, or a hot object such as a stove. The product lifespan may be reduced or a fire may result.

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

- The product may fall and injure children.
- As the front is heavy, install the product on a flat and stable surface.

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

- Have a technician install the wall-mount hanger.
 - Installation by an unqualified person can result in an injury.
 - Only use approved cabinets.
- Install the product at least 10 cm away from the wall to allow ventilation. An increased internal temperature may cause a fire.

Keep the plastic packaging out of the reach of children. Children may suffocate.

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

A fire or electric shock may result.

🕂 Caution

- Do not set down the product on its front. The screen may become damaged.
- Do not drop the product while moving. Product failure or personal injury may result.
- Set down the product gently.

Installing the product in an unusual place (a place exposed to a lot of fine dust, chemical substances, extreme temperatures or a significant presence of moisture, or a place where the product will operate continuously for an extended period of time) may seriously affect its performance.

Be sure to consult Samsung Customer Service Centre if you want to install the product at such a place.

Operation

🚹 Warning

- There is a high voltage inside the product. Never disassemble, repair or modify the product yourself.
 - A fire or electric shock may result.
 - Contact Samsung Customer Service Centre for repairs.
- O not let children hang from the product or climb on top of it. Children may become injured or seriously harmed.
- If the product is dropped or the outer case is damaged, turn off the power switch and disconnect the power cord. Then contact Samsung Customer Service Centre. Continued use can result in a fire or electric shock.
- O not leave heavy objects or items that children like (toys, sweets, etc.) on top of the product.

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

- O not move the product by pulling the power cord or any cable. Product failure, an electric shock or fire may result from a damaged cable.
- O not lift or move the product by pulling the power cord or any cable. Product failure, an electric shock or fire may result from a damaged cable.
- Solution Content in the second second
- O not insert metallic objects (chopsticks, coins, hairpins, etc) or objects that burn easily (paper, matches, etc) into the product (via the vent or input/output ports, etc).
 - Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Centre.
 - Product failure, an electric shock or fire may result.

Product failure or personal injury may result.

| \oslash | Do not place objects containing liquid (vases, pots, bottles, etc) or metallic objects on top of the product. | \bigotimes | Do r Proc |
|------------|---|--------------|--------------|
| | Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Centre. | | Leav caus |
| | • Product failure, an electric shock or fire may result. | | Acti usin |
| | Before moving the product, turn off the power switch and disconnect the power cable and all other connected cables. | 0 | Disc |
| | Damage to the cord may result in a fire or electric shock. | | Dus |
| | If the product generates abnormal sounds, a burning smell or smoke, disconnect | | leak |
| | the power cord immediately and contact Samsung Customer Service Centre. An electric shock or fire may result. | • | Use You |
| | During a lightning or thunderstorm, power off the product and remove the power cable. | 0 | Lool |
| | A fire or electric shock may result. | | eyes |
| 0 | Do not drop objects on the product or apply impact. | | Rest Eye |
| | A fire or electric shock may result. | | Цус |
| 0 | If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately. | • | Stor |
| | Sparks can cause an explosion or fire. | | |
| | Do not use or keep combustible spray or an inflammable substance near the product. | | |
| | An explosion or fire may result. | | |
| 🕂 Ca | ution | | |
| \bigcirc | Do not use humidifiers or stoves around the product. | | |
| | | | |

A fire or electric shock may result.

Do not touch the screen when the product has been turned on for an extended \bigcirc period of time as it will become hot.

- Do not place heavy objects on the product. \sim oduct failure or personal injury may result.
- aving the screen fixed on a stationary image for an extended period of time may use afterimage burn-in or defective pixels.

tivate power-saving mode or a moving-picture screen saver if you will not be ing the product for an extended period of time.

sconnect the power cord from the power socket if you do not plan on using the oduct for an extended period of time (vacation, etc).

ist accumulation combined with heat can cause a fire, electric shock or electric akage.

- se the product at the recommended resolution and frequency. ur eyesight may deteriorate.
- oking at the screen too close for an extended period of time can deteriorate your esight.
- est your eyes for more than 5 minutes for every 1 hour of product use. e fatigue will be relieved.
- ore small accessories out of the reach of children.

Precautions for use

Be careful that if you use the supplied pen with a load exceeding 2.5 kg, scratches may occur on the protective glass.

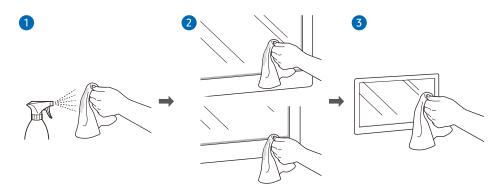
If you use a ballpoint pen other than the supplied pen, be careful that the screen may be stained with ink or damaged.

Do not use a dirty brush to avoid screen damage.

- We recommend that you use the supplied pen. Do not use sharp, pointed objects other than the pen.
- If dust or dirt from the supplied pen remains on the protective glass, clean it referring to the instructions below.

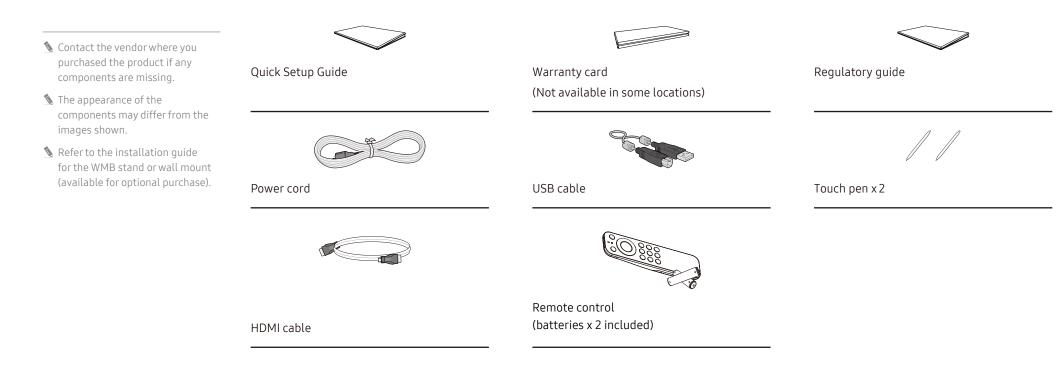
Cleaning the exterior and display

Wipe the surface with a slightly wet, soft cloth, and then wipe with a dry cloth.



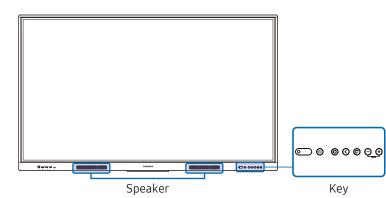
Chapter 02 Preparations

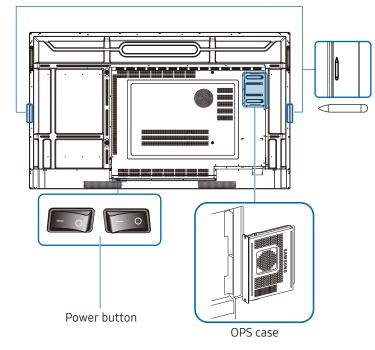
Checking the components



Parts

WA65F/WA75F/WA86F



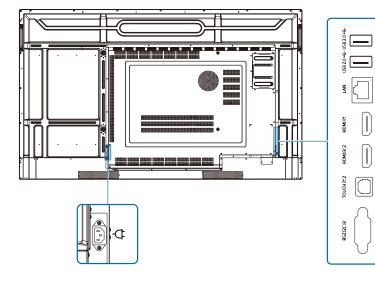


🥒 The colour and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

| Parts | Description | |
|---|--|--|
| Speaker | Speaker output | |
| Key | power indicator: Adjust the brightness of the panel according to the actual scenery if the user turns on the auto brightness power button home button: switch to the Android home page return button: return freeze button: when press this button, the screen and the picture will be freezed and cannot be touched volume down volume up | |
| Power button | Press the button to turn on the product and press and hold the button to turn off the product. In writing mode, shortly press the Power button to switch to the screen saver mode. In case the PIP screen is in Full Screen mode, press the Power button to display the adjustment menu. Press again to hide. | |
| | The pen is magnetic. Keep it by attaching to the marked location. | |
| OPS case Connect the OPS case to the product and insert the standard OPS module in case. You can purchase the OPS case and module separately. | | |
| | Before inserting the OPS module, make sure to remove the power cable from the product to completely cut off the power supply. | |
| | OPS refers to the Intel Open Pluggable Specification. OPS power supply: 18V/3.5A | |

Ports

WA65F/WA75F/WA86F

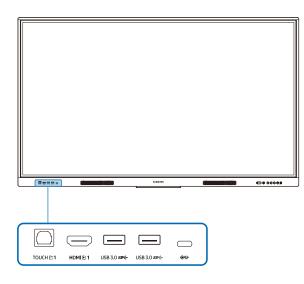


The colour and shape of parts may differ from what is shown, Specifications are subject to shange without notice to improve quality.

| Ports | Description | |
|-----------|--|--|
| USB 2.0 🚓 | Connect to a USB memory device. | |
| | The USB ports on the product accept a maximum constant current of 1.0A. If the maximum value is exceeded, USB ports may not work. | |
| USB 2.0 🚓 | Connect to a USB memory device. | |
| | The USB ports on the product accept a maximum constant current of 1.0A. If the maximum value is exceeded, USB ports may not work. | |
| LAN | Connects to a network using a LAN cable. (1000 Mbps) | |
| | Below port: Connect RJ45 output terminal | |
| | Above port: Connect RJ45 input terminal | |
| HDMI⊡ | Connects to a sink device using a HDMI cable. | |
| HDMI군2 | Connects to a source device using a HDMI cable. | |
| TOUCH 12 | Allows touch-based control of the PC screen connected through the HDMI 匠 or DP 匠 port. Use the supplied USB cable to connect between the TOUCH I port on the rear of the product and the PC. | |
| RS232C ビ | Serial Interface for debug only. | |
| Ϋ́ | Power interface | |

Tray

WA65F/WA75F/WA86F



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

| Ports | Description |
|----------------|---|
| TOUCH 121 | Allows touch-based control of the PC screen connected through the HDMI1 🗹 port. Use the supplied USB cable to connect between the TOUCH port on the rear of the product and the PC. |
| HDMI 문 1 | Connects to a source device using a HDMI cable. |
| USB 3.0 •< | Connect to a USB memory device. |
| | The USB ports on the product accept a maximum constant current of 1.0A. If the maximum value is exceeded, USB ports may not work. |
| USB 3.0 •↔ | Connect to a USB memory device. |
| | The USB ports on the product accept a maximum constant current of 1.0 maximum value is exceeded, USB ports may not work. |
| @ \ | You can connect a device using a USB-C cable. |
| | • USB-C connection allows video output and touch-based control of the device. |
| | ✓ You must use a USB-C cable with DP ALT Mode support for video transmission. |
| | 🖉 Use a USB-C cable that is 1 m or shorter in length. |
| | Charging is supported up to 65 W. Charging with USB-C cable is only available when the product is on. |

Before installing the product (Installation guide)

This product can be wall-mounted. The wall mount are available for optional purchase.

WA65F/WA75F/WA86F

<u>Ventilation</u>

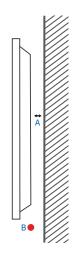
🖉 Contact Samsung Customer Service Center for further details.

Installation on a perpendicular wall

- A Minimum 30 mm
- B Ambient temperature: 35 °C or less

Installation on an indented wall

- A Minimum 30 mm
- B Minimum 25 mm
- C Ambient temperature: 35 °C or less
- ✓ When installing the product on an indented wall, allow at least the space specified above between the product and wall for ventilation and ensure that the ambient temperature is kept below 35 °C.

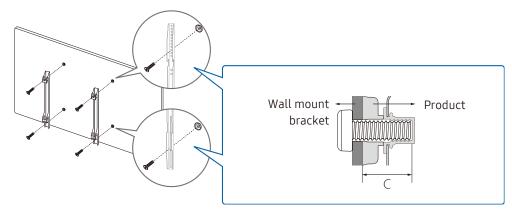


Installing the wall mount

🖉 This product can be wall-mounted. The wall mount are available for optional purchase.

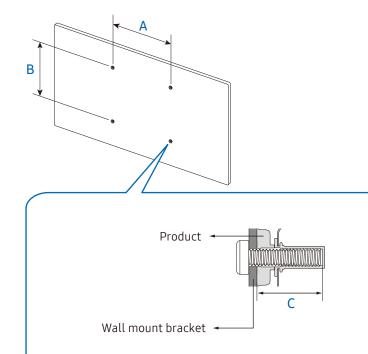
Using the wall mount kit

- The wall mount kit allows you to mount the product on the wall.
- For detailed information on installing the wall mount, see the instructions provided with the wall mount.
- We recommend you contact a technician for assistance when installing the wall mount bracket.
- Samsung is not responsible for any damage to the product or injury to yourself or others if you select to install the wall mount on your own.



Wall mount kit specifications (VESA)

 Install your wall mount on a solid wall perpendicular to the floor. To install the product on the other wall area, contact the nearest agency. If you install the product on a slanted wall, it may fall and result in severe personal injury.



- Samsung wall mount kits contain a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that are longer than the standard length or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the product.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Always have at least two people mount the product on a wall.
- Standard dimensions for wall mount kits are shown in the table below.

| Model name | VESA screw hole specs (A x B) in millimetres | C (mm) | Standard screw | Quantity |
|------------|--|---------|----------------|----------|
| WA65F | 600 x 400 | 23 - 25 | M8 | 4 |
| WA75F | 800 x 400 | 23 - 25 | | |
| WA86F | 800 x 600 | 23 - 25 | | |

Do not install your Wall Mount Kit while your product is turned on. It may result in personal injury due to electric shock.

Connecting to a network

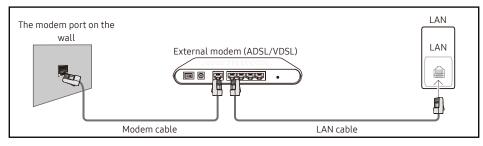
ℰ Connecting parts may differ in different products.

Network settings (Wired)

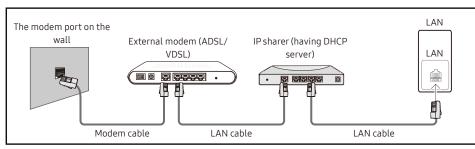
Connecting to a wired network

There are three ways to attach your product to your LAN using cable.

• You can attach your product to your LAN by connecting the LAN port on the back of your product to an external modem using a LAN cable. See the diagram below.

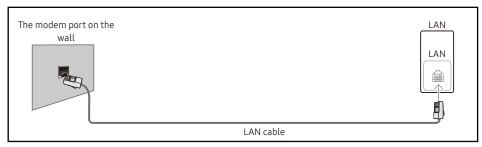


• You can attach your product to your LAN by connecting the LAN port on the back of your product to an IP sharer which is connected to an external modem. Use LAN cable for the connection. See the diagram below.



• Depending on how your network is configured, you may be able to attach your product to your LAN by connecting the LAN port on the back of your product directly to a network wall outlet using a LAN cable.

See the diagram below. Note that the wall outlet is attached to a modem or router elsewhere in your house.



If you have a Dynamic Network, you should use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your product needs to access the Internet so you do not have to enter them manually. Most home networks are Dynamic Networks.

Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually on your product Cable Setup Screen when you set up the network connection. To get the IP address, subnet mask, gateway, and DNS values, contact your Internet Service Provider (ISP).

If you have a Windows computer, you can also get these values through your computer.

- You can use ADSL modems that support DHCP if your network requires a Static IP address.
- 🖉 ADSL modems that support DHCP also let you use Static IP addresses.

Set the network connection to use Internet services such as perform software upgrades.

Automatic Open Network Settings (Wired)

Connect to the network using a LAN cable. Make sure a LAN cable is connected first.

How to set up automatically

- 1 Set Network Type to Wired from the Open Network Settings page.
- 2 The network connection screen appears, and the verification process starts.
- **3** When the connection has been verified, the OK button appears on the bottom of the screen.
- 4 Tap OK.
- If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section, "Manual Open Network Settings (Wired)".

Manual Open Network Settings (Wired)

Offices may use static IP addresses.

If this is the case, ask the network administrator for the IP address, subnet mask, gateway and DNS server address. Enter these values manually.

Getting the network connection values

To view the Network connection values on most Windows computers, follow these steps.

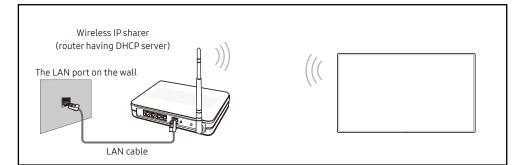
- 1 Right click the **Network** icon on the bottom right of the screen.
- 2 In the pop-up menu that appears, click Status.
- $3 \quad \text{On the dialog that appears, click the $Support$ tab.}$
- 4 On the Support tab, click the Details button. The Network connection values are displayed.

How to set up manually

- 1 Set Network Type to Wired from the Open Network Settings page.
- 2 The network connection screen appears, and the verification process starts.
- **3** Select Cancel while network connections are being attempted. This will stop the connection.
- 4 Select IP Settings on network connection screen. The IP Settings screen appears.
- 5 Select the field at the top and then set IP setting to Enter manually.
 - Setting IP setting to Enter manually automatically changes DNS setting to Enter manually.
- 6 Enter the IP Address, Subnet mask, Gateway, and DNS Server values manually.
- 7 When done, select OK at the bottom of the page. The network test screen appears and the verification process starts.
- 8 When the connection has been verified, the OK button appears on the bottom of the screen.
- **9** Tap OK to complete the setting.

Network settings (Wireless)

Connecting to a wireless network



Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not play smoothly.

- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.
- Your product supports only the following wireless network security protocols. If you select the Pure High-throughput (Greenfield) 802.11n mode and the encryption type is set to WEP, TKIP or TKIP AES (WPS2Mixed) on your AP or wireless router, Samsung products will not support a connection in compliance with new Wi-Fi certification specifications.
- If your wireless router supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- Connection methods: You can setup the wireless network connection in three ways. Auto Setup (Using the Auto Network Search function), Manual Setup, Use WPS
- 🖉 This product supports Enterprise WPA2 (TLS/TTLS/PEAP).

Automatic network setup (Wireless)

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network. If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the automatic or manual setup process.

How to set up automatically

- 1 Set Network Type to Wireless from the Open Network Settings page.
- 2 The product searches for available wireless networks. When done, it displays a list of the available networks.
- 3 In the list of networks, select a network.
 - If the desired wireless router does not appear, selectRefresh to search again.
 - If the router cannot be found after retrying, selectAdd Network.
- 4 If you selected a password-protected network, enter the password, and tapGo.

🖉 You may skip this step if you selected an open network.

- 5 The network connection screen appears, and the verification process starts.
- **6** When the connection has been verified, the OK button appears on the bottom of the screen.
- 7 Tap <mark>OK</mark>.

Manual network setup (Wireless)

Offices may use static IP addresses.

If this is the case, ask the network administrator for the IP address, subnet mask, gateway and DNS server address. Enter these values manually.

Getting the network connection values

To view the network connection values on most Windows computers, follow these steps.

- 1 Right click the **Network** icon on the bottom right of the screen.
- 2 In the pop-up menu that appears, click Status.
- **3** On the dialog that appears, click the **Support** tab.
- 4 On the Support tab, click the Details button. The Network connection values are displayed.

How to set up manually

- 1 Set Network Type to Wireless from the Open Network Settings page.
- 2 The product searches for available wireless networks. When done, it displays a list of the available networks.
- **3** In the list of networks, select a network.
 - 🖉 If the desired wireless router does not appear, select **Refresh** to search again.
 - 🥒 If the router cannot be found after retrying, select Add Network.
- 5 The network connection screen appears, and the verification process starts.
- **6** Select Cancel while network connections are being attempted. This will stop the connection.
- 7 Select IP Settings on network connection screen. The IP Settings screen appears.
- 8 Select the field at the top and then set IP setting to Enter manually.
 - Changing IP setting to Enter manually automatically changes DNS setting to Enter manually.
- 9 Enter the IP Address, Subnet mask, Gateway, and DNS Server values manually.
- **10** When done, select **OK** at the bottom of the page. The network test screen appears, and the verification process starts.
- 11 When the connection has been verified, the OK button appears on the bottom of the screen.
- **12** Tap **OK** to complete the setting.

How to set up using the WPS button

If your router has a WPS button, follow these steps.

- 1 Set Network Type to Wireless from the Open Network Settings page.
- 2 Select Use WPS.
- **3** Press the WPS or PBC button on your wireless router within the next two minutes. Your product automatically acquires all the network setting values it needs and connects to your network.
- 4 The network connection screen appears, and network setup is done.

Chapter 03 Writing

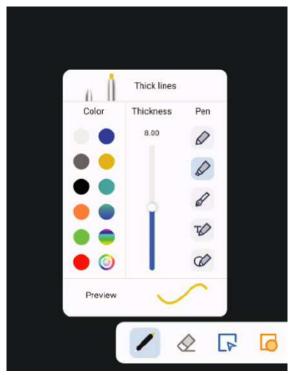
Whiteboard - Entry

Find related applications on the home screen.



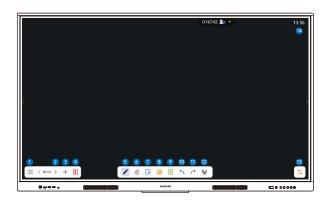
Pen

Pen feature has various pen types and allows you to select the color and adjust the thickness of the pen.



Pen Mode

Screen elements

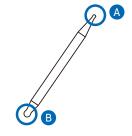


| Buttons | Description | | |
|--------------------------------|---|--|--|
| 1 = Menu | The menu contains new, save, share, close, and various settings of the whiteboard. | | |
| 2 < 01/02 > Page Management | Page management is mainly to manage the individual pages of the whiteboard. including: Previous page, Next pag, Add page, Current page number. | | |
| 3 + Add Page | Click to add a new page after the current page and jump to the new page display. | | |
| 4 🔟 Split Screen | Click split screen writing to choose to divide the whiteboard into two screens, three screens or four screens. | | |
| 5 🖊 Pen | Click the selected brush again to set the stroke size (which can be automatically recognized), the color of the writing, the weight of the writing, and the stroke type | | |
| 6 🖉 Eraser | After writing, you can erase the content directly with the palm, and also you can choose circle erasing, path erasing or one-click swipe clear. | | |
| 7 | Click the select button to switch to select mode, click the handwriting or picture and other elements to select the element, and the selected part can be enlarged, reduced and rotated. At the same time, you can also switch the color of multiple handwriting, search the picture (long press the searched picture to put the picture into the whiteboard), copy and delete. | | |
| 8 🐻 shape | Select a graphic and move it with touch to draw different geometric shapes, including lines, plane shapes, and stereo shapes. | | |
| 9 | A variety of tools can be inserted into the whiteboard, including images, tables, math tools, channels, mind maps, documents, videos, browsers, votekit, timer. | | |
| 🔟 🕤 Undo | Click the undo button to undo the last step of the operation, up to 30 steps are supported to undo. | | |
| 11 🦟 Redo | Click the redo button to resume the last undo operation. | | |
| 😢 🕅 🏘 Multi-fingerWriting | You can choose either Multi-finger writing mode or Multi-finger scaling/moving mode | | |
| 1 🚖 Toggle layout | Switch Whiteboard menu and page control positions to left or right | | |
| 14 13:56 Time | The time display can be switched on or off in the settings. | | |

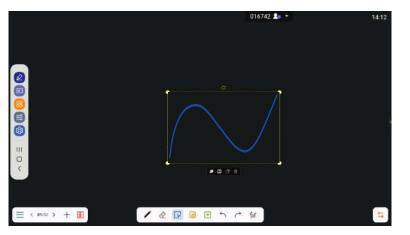
Write

Use the supplied pen to write on the display.

- Thin tip (A): Pen type
- Thick tip (B): Thick Pen



Extension function of the pen



After writing, you can select the handwriting by using the selection tool and you can adjust the color, search the handwriting, copy the handwriting or delete it.

Erasing

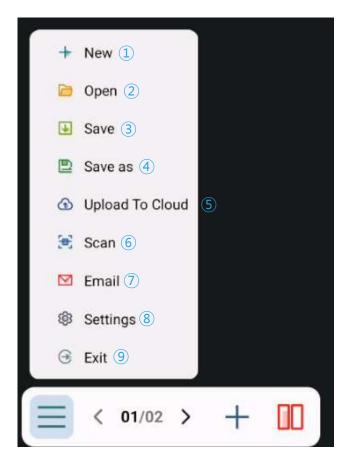
Select Eraser to erase the written content. You can use your palm to erase the content in a large area on the screen. You can also clear all contents by dragging button to right.



Erase selection for removing the content. And the erase size can be resizable

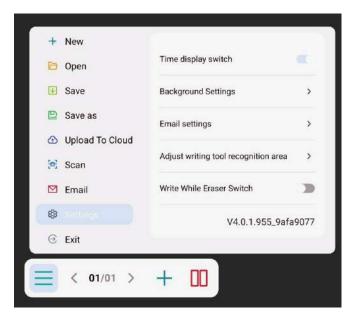


Whiteboard Menu



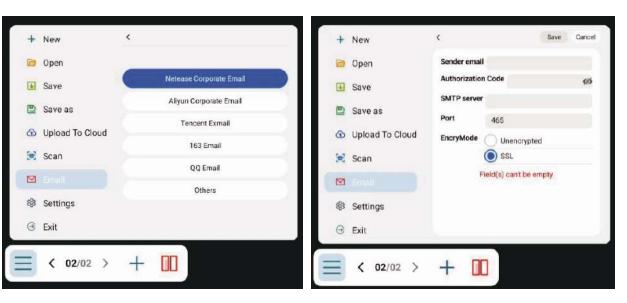
| Item | Description | | |
|-------------------|---|--|--|
| 1 New | Click to create a new whiteboard and the current document will be closed; if the current document is not saved, the user will be prompted to save the file before creating a new one; | | |
| 2 Open | Enter the file manager, display all whiteboard files, click to open the file; if the current document is not saved, the user will be prompted to save the file before opening a new file; | | |
| 3 Save | Click to save the current file, support to set the name of the document, document type, storage location; | | |
| 4 Save as | Store a file in addition to the current file. It supports setting the document name, document type, storage location, and can check whether to delete blank pages. | | |
| 5 Upload To cloud | Upload the whiteboard file to the network disk for saving, and you can choose different formats, such as: source whiteboard file, png, pdf files. | | |
| 6 Scan | Click to present and share the QR code, and users can download the whiteboard picture file by scanning the code; Click the encryption above the QR code to generate a digital password, After scanning the code, you need to enter the password to obtain the content. | | |
| 7 Email | The whiteboard file can be sent directly through the binding mailbox. | | |
| 8 Settings | The general Settings of the whiteboard are used to set the various states of the whiteboard according to the requirements. | | |
| 9 Exit | Click to exit the whiteboard, close the page and process; If the current document is not saved, the user will be prompted to save the file. | | |

Settings



Email Account

Setting up an Email account allows you to send files via Whiteboard.



| Item | | Description | |
|------|--------------------------------------|---|--|
| 1 | Time display switch | Control whether the time on the upper right corner of the whiteboard is displayed. | |
| 2 | Background Settings | Set the background style (background color, background picture, grid background). | |
| 3 | Email settings | Click to add email. | |
| 4 | Adjust writing tool recognition area | Adjust thresholds for board eraser, fine pen, and thick pen. | |
| 5 | Write While Eraser Switch | When this function is turned on, the board can be used to erase while writing on the whiteboard; When turned off, erasure and writing cannot be carried out at the same time. | |

Whiteboard Functions

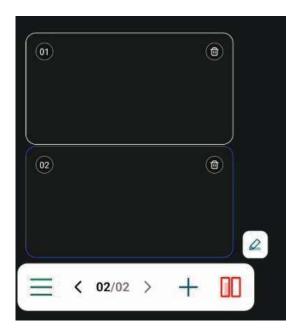
QR code-based sharing

| | + | New | Encryption |
|---|----|-----------------|-------------------|
| | D | Open | |
| | U | Save | |
| | | Save as | |
| | ٩ | Upload To Cloud | |
| | æ | | |
| | | Email | Delete Blank Page |
| | \$ | Settings | |
| | 0 | Exit | |
| | | 20 N | |
| - | = | < 01/02 > | + • |

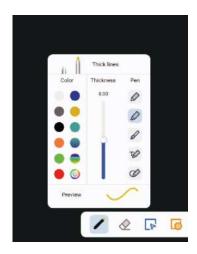
Tap the QR code to enlarge it.



Whiteboard canvas list



Pen settings



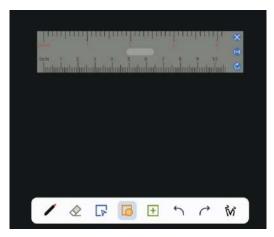
Adjust the eraser size.



<u>Ruler</u>



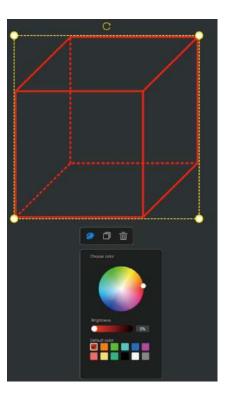
Select ruler type to use.



<u>Shape</u>

You can insert a 3D shape and preset its color.

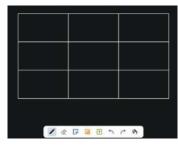




<u>Form</u>



A form is inserted as shown.

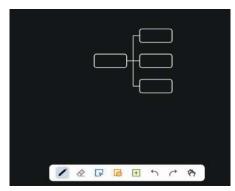


The cells in the form automatically adapt to the handwriting size.

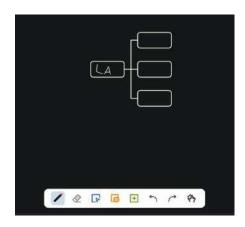


Mind map

A mind map is inserted as shown.



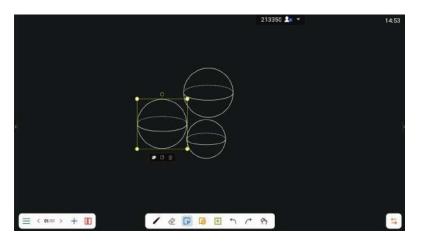
Nodes in mind maps automatically adapt to the size of handwriting.



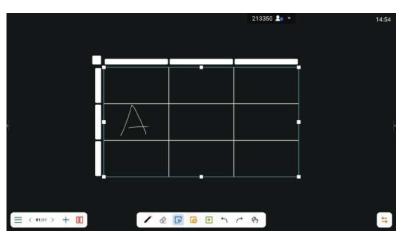
<u>Selection</u>

Different functions are available for different content. Below are examples.

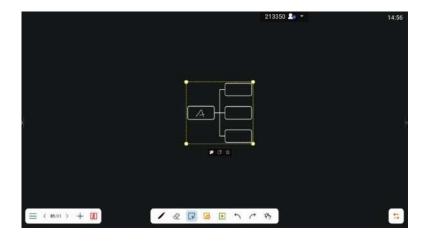
Shape: After selecting a shape, you can change the frame/fill color of the shape and flip, pin to top, clone, or delete it.



Form: After selecting a form, you can pin to top or delete the form.

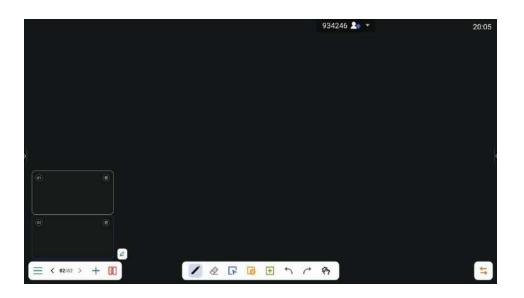


Mind map: After selecting a mind map, you can change the color or text color of the mind map and pin to top, clone, or delete it.



<u>Page</u>

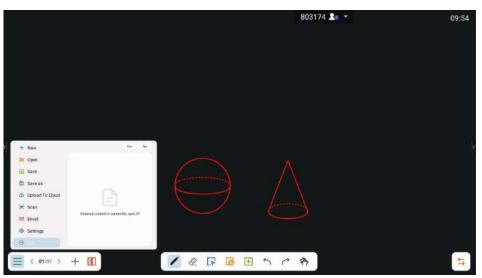
Tap Page to view, select, or delete all pages that are added to the note.



<u>Exit</u>

Tap <mark>Exit</mark>.

You are prompted whether to save the file.



Chapter 04 SETTINGS

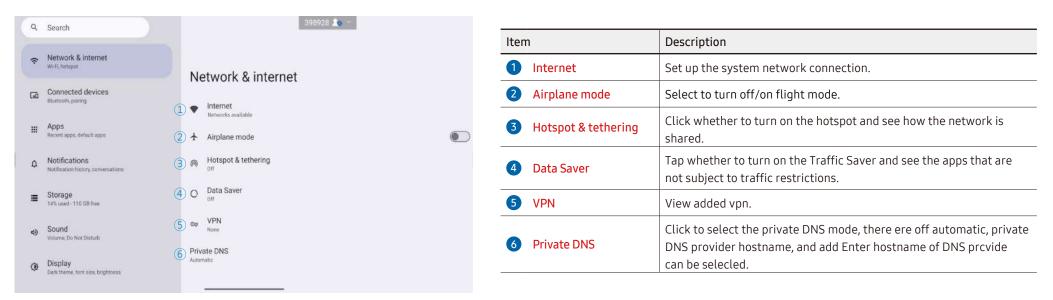
System Settings

From system settings, various settings can be managed.

| Function | Description | Function | Deseription |
|--------------------|-------------------------------------|---|---|
| Network & Internet | Wi-Fi, hotspot | Security & Privacy | Screen lock, Find My Device, app security and Permissions account activity, personal data |
| Connected Devices | Bluetooth, pairing | O Location | Apps accessing to location |
| iii Apps | Recent apps, default apps | * Safety & Emergency | Emergency SOS, medical info, alerts |
| Notifications | Notification history, conversations | Passwords & Accounts | Saved passwords, autofill, synced accounts |
| Storage | Used storage, free storage | Digital Wellbeing & Parental Controls | Screen time, app timers, bedtime schedules |
| Sound & Vibration | Manage system sound settings | G Google | Services & preferences |
| Display | Dark theme, font size, brightness | ③ System | Languages, gestures, time, backup |
| Ø Wallpaper | Home, lock screen | About Table | 65 interacity Display |
| 1 Accessibility | Display, interaction, audio | | |

Network & Internet

This page is the home page after entering the system settings, which mainly shows the current network status, and related network information.

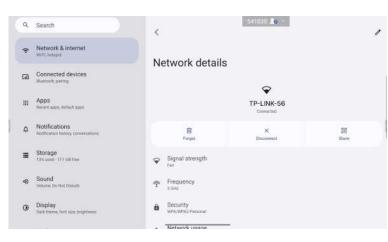


Wireless & Network Wi-Fi

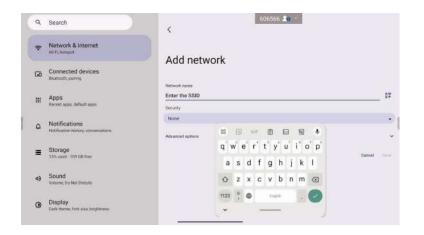
Once Wi-Fi is turned on, you can browse the list of available Wi-Fi networks and select one to establish a connection.



Tap a connected Wi-Fi network to view the details:

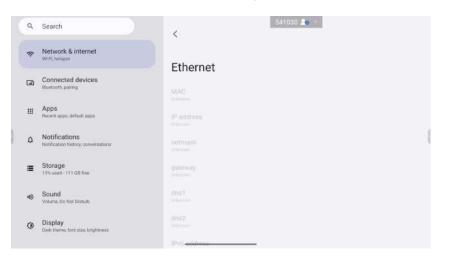


You can also click Add New Network to add and connect to a hidden network.



Ethernet

If a network cable is connected, you can configure the network in the Ethernet option.



You can select automatic or manual configuration. In automatic configuration, the system automatically obtains the IP address and other information about the Ethernet and establishes the connection. In manual configuration, you need to manually enter the corresponding information.

You can also configure an Ethernet proxy for proxy-based access.

Hotspot

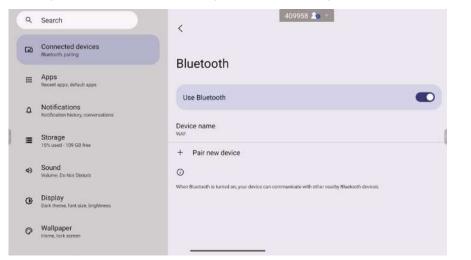
Turning on the hotspot feature allows you to specify a hotspot name and password to control device access.

| ٩ | Search | 803174 🗶 👘 |
|----|--|---|
| ÷ | Network & internet | |
| | | Hotspot & tethering |
| 60 | Connected devices Bluetcoth, pairing | Use hotspot and tethering to provide internet to other devices through your Wi-Fi or mobile data connection. Apps can also create a hotspot to share content with meatry devices. |
| ш | Apps Recent apps, default apps | Wi-Fi hotspot Not sharing internet or content with other devices |
| Φ | Notifications Notification history, conversations | USB tethering their tailors internet consector visco/010 |
| ≡ | Storage 15% used - 109 GB free | Bluetooth tethering. |
| 49 | Sound Volume, Do Not Disturb | Ethernet tethering Share tablels more contraction via Spanner |
| ٢ | Display Dark theme, font size, brightness | |
| | | · · · · · · · · · · · · · · · · · · · |

| ltem | Description |
|---------------------|--|
| Wi-Fi hotspot | Etherenet tethering. |
| USB tethering | Sharing internet connection via USB. |
| Bluetooth tethering | Sharing internet connection via Bluetooth. |
| Etherenet tethering | Sharing internet connection via Ethernet. |

Bluetooth

Enabling Bluetooth allows you to configure Bluetooth settings.



You can view the list of available nearby devices and connect to a Bluetooth device from the list. Then, you can configure the permission and type of the connected Bluetooth device.

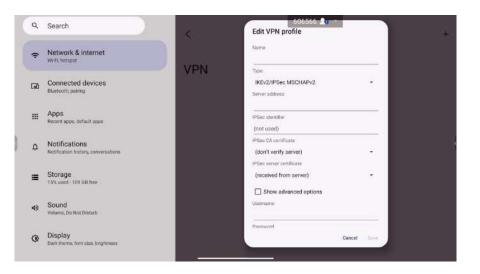
| | ۹ | Search | 409958 🗶 👘 |
|----|-----|--|---|
| | (a) | Connected devices Bluetooth, pairing | Pair new device |
| | ш | Apps Recent apps, default apps | Device name |
| | Φ | Notifications Notification history, conversations | VAP Available devices |
| È. | ≡ | Storage 15% used - 109 GB free | Тү |
| | 4) | Sound Volume, Do Not Disturb | DESKTOP-P1TNJGA |
| | ۲ | Display Dark theme, font size, brightness | C OPPO K9x 5G |
| | Ø | Wallpaper Home, tock screen | Tabler's Bluetooth address: FC:1928 14AD:47 |

VPN

You can set up a virtual private network (VPN) for VPN-based network access.

| | ٩ | Search | 803174 1 0 + |
|---|----|--|---------------------|
| | ¢ | Network & internet | VPN |
| | 60 | Connected devices Bluetnoth, pairing | V PIN |
| | | Apps Recent apps, default apps | |
| l | ¢ | Notifications Notification history, conversations | 1 |
| | = | Storage 15% used - 109 G8 free | |
| | 49 | Sound Volume, Do Not Disturb | |
| | 0 | Display Dark theme, font size, brightness | |
| | | | |

You can add a VPN profile based on your requirements.



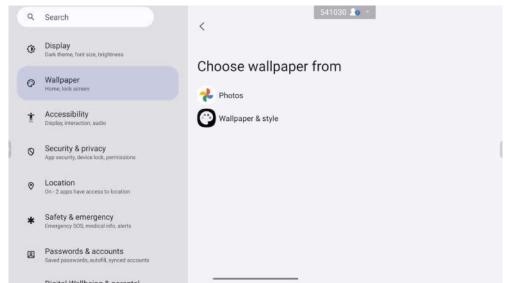
Device

You can specify whether to toggle on the samba service that allows file transfer between a personal device and the current device.

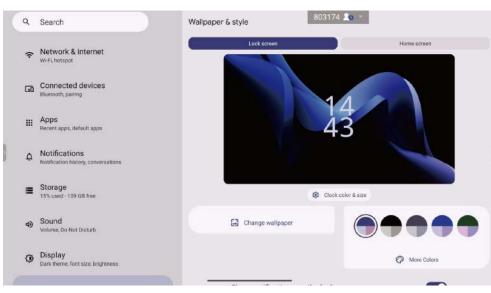


Wallpaper

Select wallpaper sources including wallpapers with personalization, photo albums.



Clock color&size

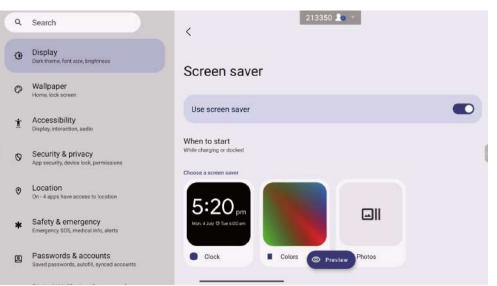


Choose a Wallpaper



Screen Saver

You can set the screen saver to **clock**, **colors**, or **landscape** and specify the time to start it. You can also preview the screen saver.



Screenshot

Click to take a screenshot



Split Screen

Tap the app icon to view app info or split-screen operation

| | App info | |
|---|------------------------------|----------------|
| | 00 Split screen | |
| | | |
| | | |
| ۵ | | |
| | | J Audio o n |
| | | |
| | | |
| | | |

Then tap another app for split-screen operation



Sidebar



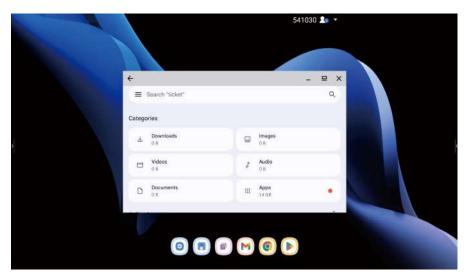
Floating app

After clicking on the sidebar, then open the control panel. In the app list at the bottom, long press on the apps with blue corner mark in the upper right corner to open it in free window form.

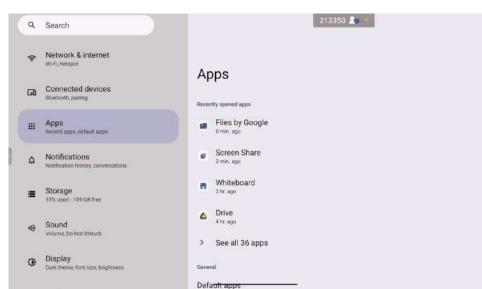
| 2 | - | 19 Esternet | Histanot | () Poiest off |
|-----|-------------------|----------------|------------|------------------|
| 6 | | | - | |
| | H Scientific | t Spottager | ð Timer | Black Server |
| 88 | | - | | |
| | - 41 C | 0 | | × |
| | * 🕥 | | 0 |) |
| 63 | APP | | | |
| | 0 | 6 | | 0 |
| III | Maps | Meet | Keep Note | YT Munic |
| 0 | 1 | | | |
| | *** | Play Store | Clock | Ties |

| Item | Description |
|------------------|---|
| 1 Annotaion | Open Annotation tool. |
| 2 Signal Source | To display the list of signal sources(the connected sources are highlighted), click to enter the corresponding channel. |
| 3 Tools | At the top, you can click different tools to respond to the operation; in the center, you can directly adjust the sound and brightness of the all-in-one PC, clicking the button to the right of the sound to mute it, and clicking the button to the right of the brightness to turn on the auto-brightness. The bottom shows all the application functions, click once to open the corresponding application. Long press on the application with "Multi-window icon" can open the application in the form of free form. |
| 4 Device Setting | Click to enter the settings for Display, Audio and General conditions. |
| 5 Settings | Click to enter Android system settings. |
| 6 Multitasking | Enter the system multitasking page, you can view the applications that are currently running in the background. |
| 7 Home | Tap the home icon to quickly return to the home page. The current application can be retrieved in multitasking. |
| 8 Back | Tap to return to the previous step of the operation, until you return to the home page or the starting position of the operation. |
| | |

It allows you to have multiple applications open in the foreground at the same time.

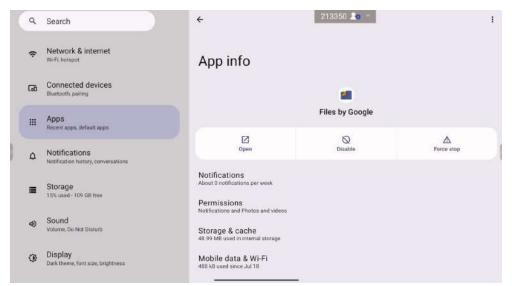


Apps



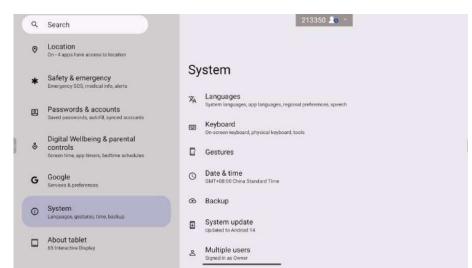
In Apps, you can browse system apps and manage their permissions.

View recently opened apps with the option to open, deactivate, or force stop them, set notifications, app permissions, storage and cache, mobile data and WLAN, device usage time, battery usage for apps, choose to open supported links, make settings for idle apps with the option of whether to pause the activity of idle apps, and set whether to turn on Picture-in-Picture and other advanced options.



System

System settings allow you to configure general system functions. Specify the time zone basis for the automatic adjustment of the date and time.



Date & Time

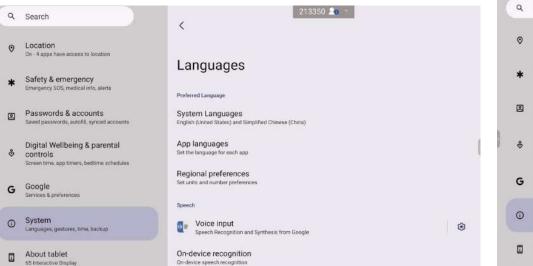
You can specify the date and time format and the time zone of the system.

| ٩ | Search | 213350 🎝 📼 | |
|----|--|---|---|
| 0 | Location On - 4 apps have access to location | • | |
| * | Safety & emergency Emergency SOS, medical info, alerte | Date & time | |
| | Energency oval measured, addre | Set time automatically | |
| 0 | Passwords & accounts Saved passwords, autofill, synced accounts | Date August 15, 2024 | |
| \$ | Digital Wellbeing & parental controls Screen time, app timers, bedtime schedules | Time 12:10- | (|
| G | Google Services & preferences | Time zone | |
| | | Set automatically Location will be used for setting the time zone when this toggle is on | |
| 0 | System Languages, gestures, time, backup | Time zone | |
| | About tablet 65 Interactive Display | Time format | |
| | | Use locale default | |

| Item | Description |
|------------------------|---|
| Set time automatically | Toggle on/off Automatic Date & Time. If you toggle off this option, you need to manually specify the date and time. |
| Set automatically | Specify the time zone. The time zone is the basis for the automatic adjustment of the date and time. |
| Date Format | Whether to use the default language region. |
| Time Zone | Toggle on/off Use 24-Hour Format. |

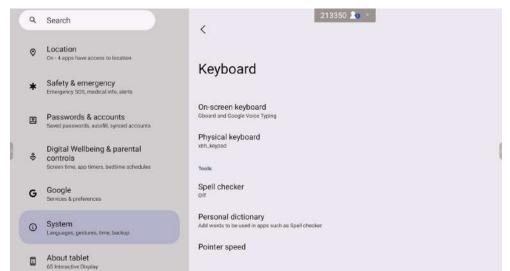
Language

You can adjust the system languages, apps languages, regional preferences. In system languages, you can add languages to your list and organize them according to preference.



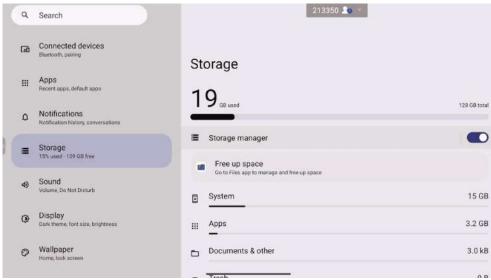
Keyboard

Setting up the on-screen keyboard and displaying the on-screen keyboard.



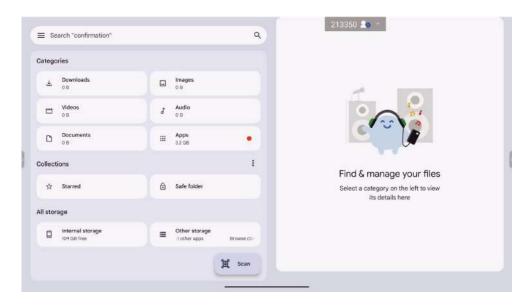
Storage

You can view the internal storage space and the space occupied by different types of files. Tap on free up space to jump to the files.



Files

You can find and manage your files in different categories and all storage space.



Software Update

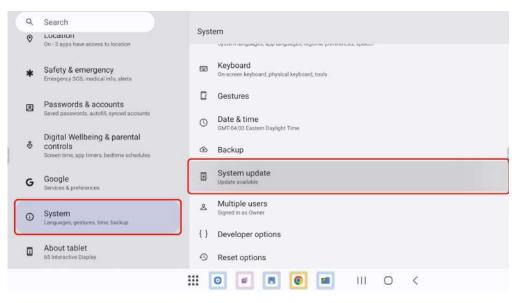
Settings → System → System Update → ENTER

The System Update lets you upgrade your product software to the latest version.

-Be careful not to turn off the power until the upgrade is complete. The product will turn off and on automatically after completing the software upgrade.

-When you upgrade software, all video and audio settings you have made will return to thier default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.

Step 1: Select the system and click on system upgrade.



Step 2: Click to check for update.

| ٩, | Search | | | | | | | | | | |
|----|--|----|----|----------|---------|---------|-----|-----------------|-----------------------------|-----------------|---------------------|
| Ø | Security & privacy Applications, device lock, permanents | | Yo | ur syste | em is u | p to da | ite | Andra Andra | ist version ist security | Td update: N | lay 5,2024 |
| 0 | Location De: 3 appr have access to invation | | | | | | | Lant (65:00 | necentful | check for (| apdate |
| * | Safety & emergency transpres IDE metallists alway | | | | | | | | | | |
| 0 | Passwords & accounts Send parentity, which, synod accounts | | | | | | | | | | |
| ê | Digital Wellbeing & parental controls Sciencific, approver, before siteables | | | | | | | | | | |
| G | Google Services & purferences | | | | | | | | | | Oreita for such the |
| 0 | System | η. | | | | | | | | | |
| | | | 0 | | | 0 | 50 | 111 | 0 | < | |

Step 3: Waiting for checking update.



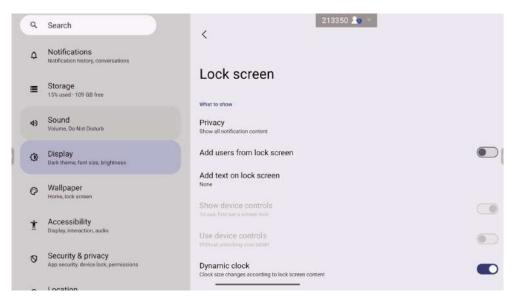
Step 4: Installing system update.



Lock Screen

Password

The lock screen password is used to prevent unauthorized operations.

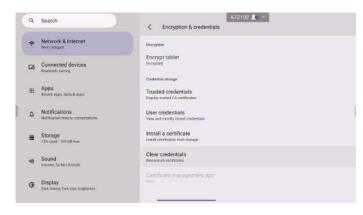


Security

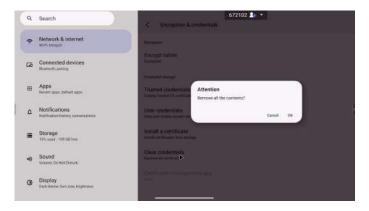
In the security settings, you can view the configured credentials in the system, including trusted and user credentials. connecting to specific encrypted networks, such as TLS or PEAP requires a specific credential for validation.

| ٩ | Search | 278886 北 👻 | |
|----|--|---|---|
| ¢ | Network & internet | < Wi-Fi hotspot | • |
| 60 | Connected devices Bluetoath, pairing | Hotspot name Andreid# 5980 | |
| Ш | Apps Recent apps, default apps | Security WM2 Personal | |
| ¢ | Notifications Notification history, conversations | Hotspot pas | |
| = | Storage 15% used - 109 GB free | Turn off hotspot automatically Whento devices an competite | |
| 4) | Sound Volume, Do Not Disturb | Extend compatibility maps offer awaren find the hotspot. Hiduces hotspot connection speed. | |
| 0 | Display Dark theme, fant size, brightness | | |

Credential list

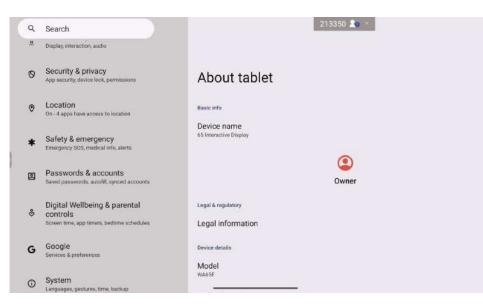


The following window pops up during credential clearing.



About

You can view basic system information.



Device Setting

Display

Adjust image display settings.



| Item | Description |
|------------------------|---|
| Dlsplay | Click to enter the display settings. |
| Picture Mode | lmage mode includes four modes: Standard, Bright, Brilliant and Custom which can adjust Scale, Contrast, Tone and Sharpness respectively. |
| Color temperature mode | Color temperature modes include Normal, Cold, Warm, and Filter. |

Audio

Supports 5 sound modes: Standard, Conference room, Cinema, classroom and Custom. And the use of ARC output can be turned on.

| | | | 803174 🌆 י | * . | |
|------------|---------|----------------|----------------------|--------------|---|
| | 2 | 0:30 🛎 | ^{gust} / 15 | | |
| | O Date | Sound Settings | × | | |
| | () Arts | Sound mode | Standard • | | |
| Whiteboard | O servi | 1000 | - | Screen Share | |
| GØ | C mean | tam | | 0 | ¢ |
| Google | | Bafaoce | 50 | Settings | |
| | | Use ARC output | | | |
| | | | | | |
| | | | | | |
| | 0 | ø) 🖪 🖓 | | | |
| | | | | | |

| Item | Description |
|----------------|---|
| Audio | Click to enter sound settings. |
| Sound mode | Sound modes include Standard,Meeting Room, Cinema, Classroom and Custom, with adjustments for Bass, Treble and Balance. |
| Use ARC output | Turn it on to amplify sound, turn it off to use the device's own output channels. |

General

Adjust general settings.



| Parts | Description |
|-------------------------|--|
| General | Click to enter General Settings. |
| Power-on mode | Power-up mode includes two modes: power-on and power-on stand by. |
| OPS power-on mode | Tap OPs power-up mode to confirm whether it is on or not. |
| Boot source | You can chose Memory channels, ANDROID, OPS, HDMI1, HDMl2 and UsB-C as boot source. |
| Auto Source switching | You can choose to turn on, user confirmation, or turn off auto source switching. |
| Power on Source Setting | Click to enable or disable power on source. |

Chapter 05 Troubleshooting guide

Problems and solutions

Test your product as follows before calling Samsung Customer Service Center. If the problem persists, contact Samsung Customer Service Center.

| Source window (HDMI) issue | | | | |
|--|--|--|--|--|
| Blank spaces are found on all four sides of the screen | The blank spaces are not caused by the product. | | | |
| when an HDMI cable is connected to the product and PC. | Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI settings for the graphics card. | | | |
| | If the graphics card settings menu does not have an option to adjust the screen size, update the graphics card driver to the latest version. | | | |
| | (Please contact the graphics card or computer manufacturer for further details about how to adjust the screen settings.) | | | |
| The images on the screen look distorted. | Check the connected cable. Compatibility is not guaranteed if you use a cable that has not been supplied by Samsung. | | | |
| The screen is not clear. The screen is blurry. | Set the resolution and frequency to the recommended level. | | | |
| The screen appears unstable and shaky. | Check that the resolution and frequency of the PC and graphics card are set within a range | | | |
| There are shadows or ghost images left on the screen. | compatible with the product. Then, change the screen settings if required by referring to 'Preset timing modes'. | | | |
| White does not really look white. | Go to Picture and adjust the White Balance settings. | | | |
| The product will turn off automatically. | Make sure the power cable is connected properly to the product and power outlet. | | | |

| Source window (HDMI) issue | | | | | |
|--|---|--|--|--|--|
| The screen display does not look normal. | Encoded video content may cause the display to appear corrupted in scenes featuring fast moving objects such as in a sports event or action video. | | | | |
| | Low signal level or low picture quality may cause the display to appear corrupted. This does not mean the product is defective. | | | | |
| | A mobile device within a distance of one-meter radius may cause static on analogue and digital products. | | | | |
| The brightness and color do not look normal. | From the quick settings, select Display \rightarrow Picture Mode to adjust the mode to standard, bright, brilliant or custom. | | | | |
| The display looks unstable and then freezes. | The screen may freeze when a resolution other than the recommended resolution is used or if the signal is not stable. To resolve the issue, change the PC resolution to the recommended resolution. | | | | |
| The screen cannot be displayed in full screen. | If the source window is set to full screen mode while in portrait orientation, a black bar appears at both the top and bottom. | | | | |
| | Change to landscape orientation, and then switch the Source window to full screen mode. | | | | |

| Sound issue | | | | | |
|--|---|--|--|--|--|
| There is no sound. | Check the volume. | | | | |
| The volume is too low. | Adjust the volume. | | | | |
| | If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software programme. | | | | |
| Video is available but there is no sound. | If a HDMI cable is connected, check the audio output settings on the PC. | | | | |
| | If a source device is used | | | | |
| | Check the audio output settings for the source device. | | | | |
| | (For example, if your monitor is connected to HDMI, you may need to change the audio option of your video output device to HDMI.) | | | | |
| | Reconnect the power cable to the device and then reboot the device. | | | | |
| There is static coming from the speakers. | Low signal level can cause corrupted sound. | | | | |
| There is audible sound when the volume is muted. | Audio settings for main speakers are separate from the internal speakers on the product. | | | | |
| | Changing or muting the volume on the product does not affect an external amplifier(decoder). | | | | |

| Touch function issues | | | | | |
|---|---|--|--|--|--|
| The icons can be selected but does not allow drawing. | Use the provided product-specific pen. | | | | |
| Touching does not work when HDMI connection is used. | Check whether the TOUCH ^I port on the product is connected to a USB port on the PC usin the supplied USB cable. | | | | |
| | • WA65F/WA75F/WA86F | | | | |
| | HDMI 	Gent 1 → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH 	Gent on the front of the product I → TOUCH I → TO | | | | |
| | \checkmark HDMI \boxdot 2 → TOUCH \boxdot on the rear of the product | | | | |
| When two pens are used, display has difficulty recognizing them. | Make sure that there is enough space between the two pens at multi-touching. | | | | |
| There is a screen touch malfunction such as slow or | Make sure that there are no foreign substances on the screen surface. | | | | |
| inaccurate responding. | Check whether the screen is broken. | | | | |
| | Make sure that the product is not exposed to direct sunlight. | | | | |
| | When the product is turned on after turning off, do not tap the screen because touch calibration is performed for 5 seconds. | | | | |
| Other issue | | | | | |
| The product smells like plastic. | The plastic smell is normal and disappears over time. | | | | |
| Small particles are found on the edges of the product. | The particles are part of the product design. The product is not defective. | | | | |
| When I try to change the PC resolution, a message "The defined resolution is not currently supported." | The message "The defined resolution is not currently supported." appears if the input sour resolution exceeds the maximum resolution of the product. | | | | |
| appears. | To resolve the issue, change the PC resolution to a resolution supported on the product. | | | | |
| There is no sound from the speakers in HDMI mode when a DVI-HDMI cable is connected. | DVI cables do not transmit sound data. | | | | |
| There is no sound in HDMI mode. | Displayed picture colors may not look normal. Video or sound may not be available. This can occur if a source device that only supports an older version of the HDMI standard is connected to the product. | | | | |

Chapter 06 Specifications

Norizontal Frequency:

Vertical Frequency:

in Hz.

The time required to scan a single

line from the left to the right side of the screen is called a horizontal

cycle. The reciprocal number

of a horizontal cycle is called horizontal frequency. Horizontal

frequency is measured in kHz.

The product displays a single

image multiple times per second

what the viewer sees. The rate of a single image being displayed

repeatedly per second is called

vertical frequency or refresh rate. Vertical frequency is measured

(like a fluorescent light) to display

General

Model Name WA65F WA75F WA86F 65 CLASS (64.5 inches / 163.9 cm) 75 CLASS (74.5 inches / 189.3cm) 86 CLASS (85.6 inches / Panel Size 217.4cm) 1428.48 mm (H) x 803.52 mm (V) 1649.664 mm (H) x 927.936 mm (V) 1895.04 mm (H) x 1065.96 Display area mm(V)Synchronization (Panel Horizontal Frequency 135 kHz Spec) Vertical Frequency 60 Hz Resolution Optimum resolution 3840 x 2160 Maximum resolution AC100-240V~ 50/60Hz Power Supply Refer to the label at the back of the product as the standard voltage can vary in different countries. Temperature : 32 °F - 104 °F (0 °C - 40 °C) Environmental Operating considerations * For installing the enclosure, keep the internal temperature at 104 °F (40 °C) or below. Humidity: 10% – 80%, non-condensing Temperature : -4 °F - 113 °F (-20 °C - 45 °C) Storage Humidity : 5% – 95%, non-condensing * Applicable before the product package is unpacked.

- Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may appear brighter or darker on the panel. This does not affect product performance.
- This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Using a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for your product.
- 🖉 For detailed device specifications, visit the Samsung website.

Preset timing modes

The screen will automatically be adjusted if a signal that belongs to the following standard signal modes is transmitted from your PC. If the signals transmitted from the PC differ from the standard mode, the screen may not be displayed. In such a case, change the settings as shown in the following table by referring to the graphics card user manual.

| No. | Signal timing name | Reference | clock | Hf | Vf | HDMI | VGA | ТуреС |
|-----|--------------------|-----------|--------|--------|--------|------|-----|-------|
| | | | [MHz] | [KHz] | [Hz] | | | |
| 1 | 720*400 @70Hz | IBM | 28.322 | 31.788 | 70 | / | Y | / |
| 2 | 640*480 @60Hz | VESA | 25.18 | 31.469 | 59.94 | Y | Y | Y |
| 3 | 800*600 @56Hz | VESA | 36 | 35.156 | 56.25 | / | Y | Y |
| 4 | 800*600 @60Hz | VESA | 40 | 37.879 | 60.317 | Y | Y | Y |
| 5 | 1024*768 @60Hz | VESA | 65 | 48.363 | 60.004 | Y | Y | Y |
| 6 | 1280*768 @60Hz(RB) | CVTRB | 68.25 | 47.396 | 59.995 | Y | Y | Y |
| 7 | 1280*768 @60Hz | VESA | 79.5 | 47.776 | 59.87 | Y | Y | Y |
| 8 | 1280*800 @60Hz | VESA | 83.5 | 49.702 | 59.81 | Y | Y | Y |
| 9 | 1280*960 @60.000Hz | VESA | 108 | 60 | 60 | Y | Y | Y |
| 10 | 1280*1024 @60Hz | VESA | 108 | 63.981 | 60.002 | Y | Y | Y |
| 11 | 1360*768 @60Hz | VESA | 85.5 | 47.712 | 60.015 | Y | Y | Y |
| 12 | 1440*900 @60Hz(RB) | CVTRB | 88.75 | 55.469 | 59.901 | Y | Y | Y |
| 13 | 1440*900 @60Hz | CVT | 106.5 | 55.935 | 59.887 | Y | Y | Y |
| 14 | 1680*1050 60Hz | VESA | 146.25 | 65.29 | 59.954 | Y | Y | Y |
| 15 | 1920*1080 60Hz | CEA | 148.5 | 67.5 | 60 | Y | Y | Y |
| 16 | 640*480P594:3 | CEA | 25.175 | 31.469 | 59.94 | / | / | Y |
| 17 | 640*480P604:3 | CEA | 25.2 | 31.5 | 60 | / | / | Y |
| 18 | 720*480P604:3 | CEA | 27.027 | 31.5 | 60 | / | / | Y |
| 19 | 720*480P6016:9 | CEA | 27.027 | 31.5 | 60 | / | / | Y |
| 20 | 1280*720P5916:9 | CEA | 74.175 | 44.955 | 59.939 | / | / | Y |
| 21 | 1280*720P6016:9 | CEA | 74.25 | 45 | 60 | / | / | Y |
| 22 | 1440*480P604:3 | CEA | 54.054 | 31.5 | 60 | / | / | Y |
| 23 | 1440*480P5916:9 | CEA | 54 | 31.469 | 59.94 | / | / | Y |
| 24 | 1440*480P6016:9 | CEA | 54.054 | 31.5 | 60 | / | / | Y |
| 25 | 1920*1080P5916:9 | CEA | 148.35 | 67.432 | 59.939 | / | / | Y |
| 26 | 1920*1080P6016:9 | CEA | 148.5 | 67.5 | 60 | / | / | Y |

| No. | Signal timing name | Reference | clock Hf [MHz] [KHz] | Hf | Vf [Hz] | HDMI | VGA | ТуреС |
|-----|--------------------|-----------|-------------------------|--------|------------|------|-----|-------|
| | | | | [KHz] | | | | |
| 27 | 720*576P504:3 | CEA | 27 | 31.25 | 50 | / | / | Y |
| 28 | 720*576P5016:9 | CEA | 27 | 31.25 | 50 | / | / | Y |
| 29 | 1280*720P5016:9 | CEA | 74.25 | 37.5 | 50 | / | / | Y |
| 30 | 1440*576P5016:9 | CEA | 54 | 31.25 | 50 | / | / | Y |
| 31 | 1920*1080P5016:9 | CEA | 148.5 | 56.25 | 50 | / | / | Y |
| 32 | 1920*1080P2316:9 | CEA | 74.175 | 26.973 | 23.976 | / | / | Y |
| 33 | 1920*1080P2416:9 | CEA | 74.25 | 27 | 24 | / | / | Y |
| 34 | 1920*1080P2516:9 | CEA | 74.25 | 28.125 | 25 | / | / | Y |
| 35 | 1920*1080P2916:9 | CEA | 74.175 | 33.716 | 29.97 | / | / | Y |
| 36 | 1920*1080P3016:9 | CEA | 74.25 | 33.75 | 30 | / | / | Y |
| 37 | 720(1440)*480i | CEA | 27 | 15.734 | 59.939 | Y | / | / |
| 38 | 480p 59Hz | CEA | 27 | 31.469 | 59.94 | Y | / | / |
| 39 | 480p 60Hz | CEA | 27.027 | 31.5 | 60 | Y | / | / |
| 40 | 720(1440)*576i | CEA | 27 | 15.625 | 50 | Y | / | / |
| 41 | 576p 50Hz | CEA | 27 | 31.25 | 50 | Y | / | / |
| 42 | 720p 60Hz | CEA | 74.25 | 45 | 60 | Y | / | / |
| 43 | 720p 59Hz | CEA | 74.176 | 44.955 | 59.94 | Y | / | / |
| 44 | 720p 50Hz | CEA | 74.25 | 37.5 | 50 | Y | / | / |
| 45 | 1080i 60Hz | CEA | 74.25 | 33.75 | 60 | Y | / | / |
| 46 | 1080i 59Hz | CEA | 74.176 | 33.716 | 59.94 | Y | / | / |
| 47 | 1080i 50Hz | CEA | 74.25 | 28.125 | 50 | Y | / | / |
| 48 | 1080p 60Hz | CEA | 148.5 | 67.5 | 60 | Y | / | / |
| 49 | 1080p 50Hz | CEA | 148.5 | 56.25 | 50 | Y | / | / |
| 50 | 1080p 30Hz | CEA | 74.25 | 33.75 | 30 | Y | / | / |
| 51 | 1080p 29Hz | CEA | 74.176 | 33.716 | 29.97 | Y | / | / |
| 52 | 1080p 25Hz | CEA | 74.25 | 28.125 | 25 | Y | / | / |
| 53 | 1080p 24Hz | CEA | 74.25 | 27 | 24 | Y | / | / |
| 54 | 1080p 23Hz | CEA | 74.176 | 26.973 | 23.976 | Y | / | / |
| 55 | 3840*2160 60Hz | CEA | 594 | 135 | 60 | Y | / | Y |
| 56 | 3840*2160 50Hz | CEA | 594 | 112.5 | 50 | Y | / | Y |
| 57 | 3840*2160 30Hz | CEA | 297 | 67.5 | 29.97 | Y | / | Y |
| 58 | 3840*2160 25Hz | CEA | 297 | 56 25 | 25 | Y | / | Y |
| 59 | 3840*2160 24Hz | CEA | 297 | 54 | 23.982 | Y | / | Y |

Chapter 07 Appendix

Responsibility for the pay service (Cost to customers)

When the service is requested, in spite of in warranty, we may charge you for a visit from a service technician in the following cases.

Not a product defect

Cleaning of the product, Adjustment, Explanation, Re-installation and etc.

- If a service technician is requested to give instructions on how to use product or simply adjusts options without disassembling product.
- If a defect is caused by external environmental factors (Internet, Antenna, Wired Signal, etc.)
- If a product is reinstalled or devices are connected additionally after installing the purchased product for the first time.
- If a product is reinstalled to move to a different spot or to move to a different house.
- If the customer requests instructions on how to use another company's product.
- If customer requests instructions on how to use the network or another company's programme.
- If customer requests software installation and setup for the product.
- If a service technician removes/cleans dusts or foreign materials inside of the product.
- If customer requests an installation additionally after purchasing a product through home-shopping or online.

A product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

- External impact or drop.
- Use of supplies or separately sold product unspecified by Samsung.
- Repair from a person besides an engineer of outsourcing service company or partner of Samsung Electronics Co., Ltd.
- Remodeling or repairing the product by customer.
- Using it with incorrect voltage or non-authorised electrical connections.
- Not following the "cautions" in User Manual.

Others

- If product fails by natural disaster. (lightning, fire, earthquake, flood damage, etc)
- If consumable components are all used up. (Battery, Toner, Fluorescent lights, Head, Vibrator, Lamp, Filter, Ribbon, etc.)
- If customer requests a service in case the product has no defect, service fee may be charged. So please read user Manual first.

Prevention of afterimage burn-in

What is afterimage burn-in?

Afterimage burn-in should not occur when the panel is operating normally. Normal operation refers to a continuously changing video pattern. If the panel displays a fixed pattern for an extended period of time a slight voltage difference may occur between the electrodes in pixels that control the liquid crystals.

Such a voltage difference between electrodes increases with time and makes the liquid crystals thinner. When this occurs, a previous image can remain on the screen when the pattern changes.

S This information is a guide to prevent afterimage burn-in. viewing a fixed screen for an extended period of time may cause afterimage burn-in. This problem is not included in warranty.

Recommended prevention practices

Viewing a fixed screen for an extended period of time may cause afterimage burn-ins or smudges. Turn off the product when it is not used for a long time, activate the Power Saving mode, or run a moving screen saver.

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Open Source Licence Notice

In the case of using open source software, Open Source Licences are available on the product menu. For information on the Open Source Licence Notice, contact Samsung Open Source (http://opensource.samsung.com).

Low Blue Light

Low Blue Light (software solution) filters out blue light to protect your eyes by adjusting how much blue light is shown:

1. To open blue light setting: on an device home screen, swipe up from the bottom

2. In the middle of "General Setting", the function low blue light is called "Eye Care".

3.Tap the item "Eye Care" to enable/disable low blue light.

Tips for eye health

Eye exercises can help minimize eye strain. Slowly roll your eyes to the up, down, left and right. Repeat as many times as needed.

When viewing screens for extended periods, it is recommended to take periodic breaks from viewing. Short breaks of at least 10 minutes are recommended after one (1) hour of continuous viewing.

While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10-15 seconds, then gaze at something up close for 10-15 seconds. Repeat this up to 10 times.

This exercise reduces the risk of your eyes' focusing ability to "lock up" after prolonged computer work.

ENERGY STAR

ENERGY STAR is a U.S. Environmental Protection Agency voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency criteria or requirements set by the U.S. Environmental Protection Agency. The following logo appears on all ENERGY STAR-certified models:

This product qualifies for ENERGY STAR in the "Standard mode" setting and this is the setting in which power savings will be achieved. Changing the Standard mode picture settings or enabling other features will increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR rating. Refer to EnergyStar.gov for more information on

