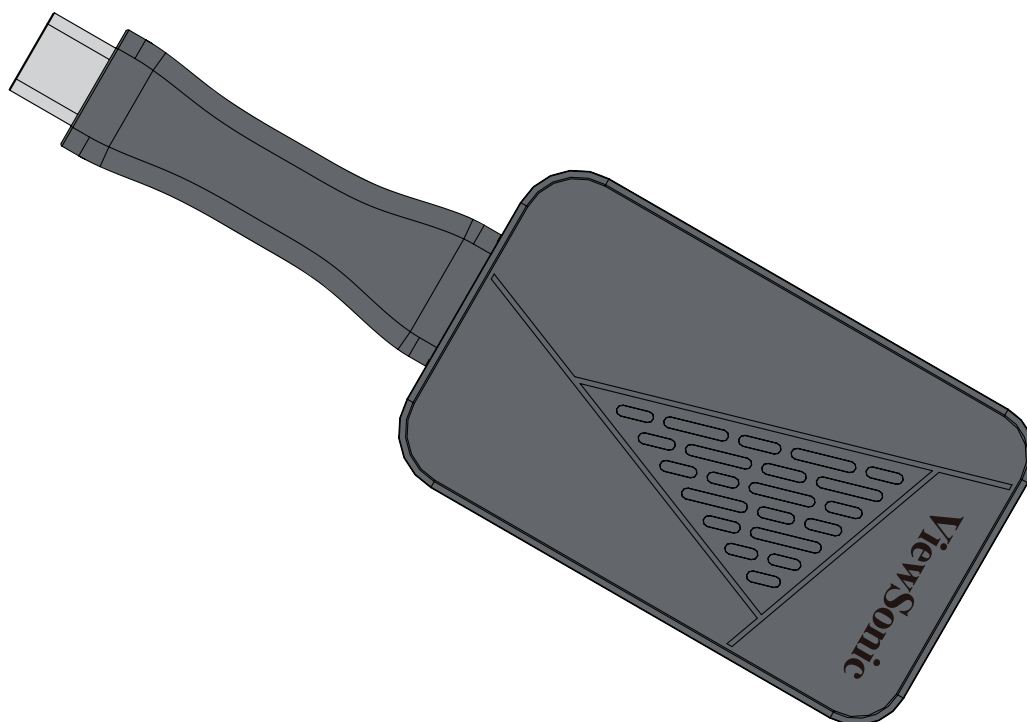


LCD-WPD-001-TX

User Guide



IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic® Corporation, which is also found on our web site at <http://www.viewsonic.com> in English, or in specific languages using the Regional selection box of our website.

Model No. VS19948
P/N: LCD-WPD-001-TX

Thank you for choosing ViewSonic®

As a world-leading provider of visual solutions, ViewSonic® is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic®, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic® product you have chosen will serve you well.

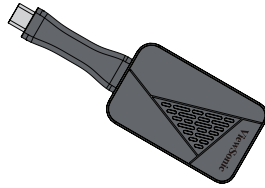
Once again, thank you for choosing ViewSonic®!

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Introduction

Package Contents

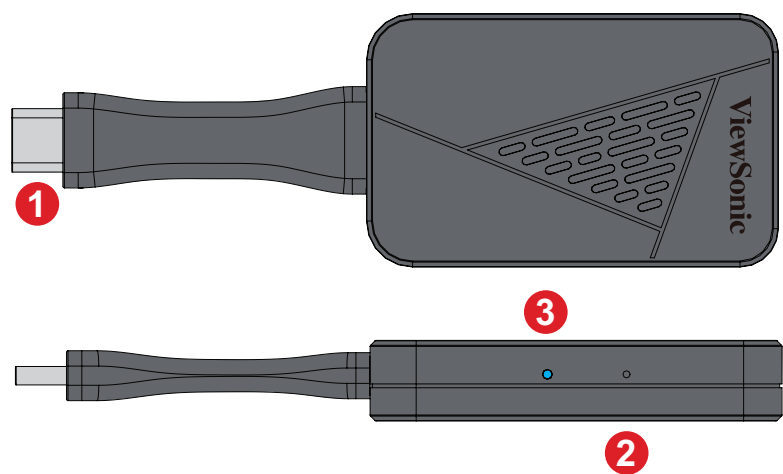


Transmitter

NOTE: If anything is missing or damaged, please contact your local reseller for more information.

Product Overview

Transmitter

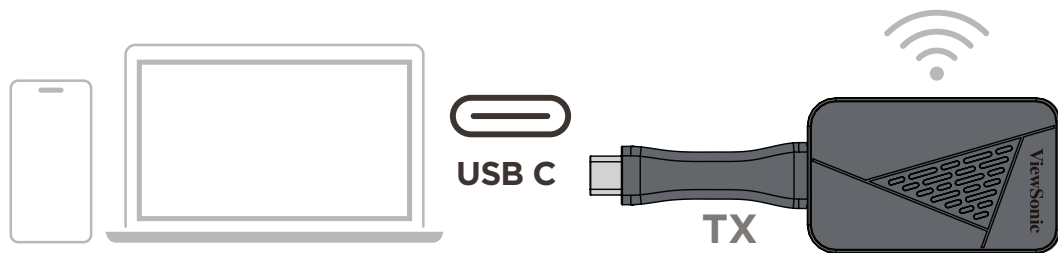


Number	Item	Description
1	USB Type C ¹ Input	Display input; connect to the casting device (e.g., laptop, mobile phone, tablet).
2	Re-Pair Button	Using a paper clip or SIM-eject tool, press and hold for five seconds to re-pair the device.
3	LED Indicator	Indicates the power and connection status.

1 - Compatible with USB Type C. Ensure your device supports video output and power delivery via a USB Type C port (DisplayPort Alternative Mode on USB Type C).

Making Connections

Connecting the Transmitter



1. Connect the Transmitter's USB Type C Input to a **USB Type C** port of the casting device (e.g. laptop, mobile phone, tablet).
2. Once connected, the Transmitter's LED Indicator will flash for a few seconds then stop. At this time, the casting device's screen will cast automatically.

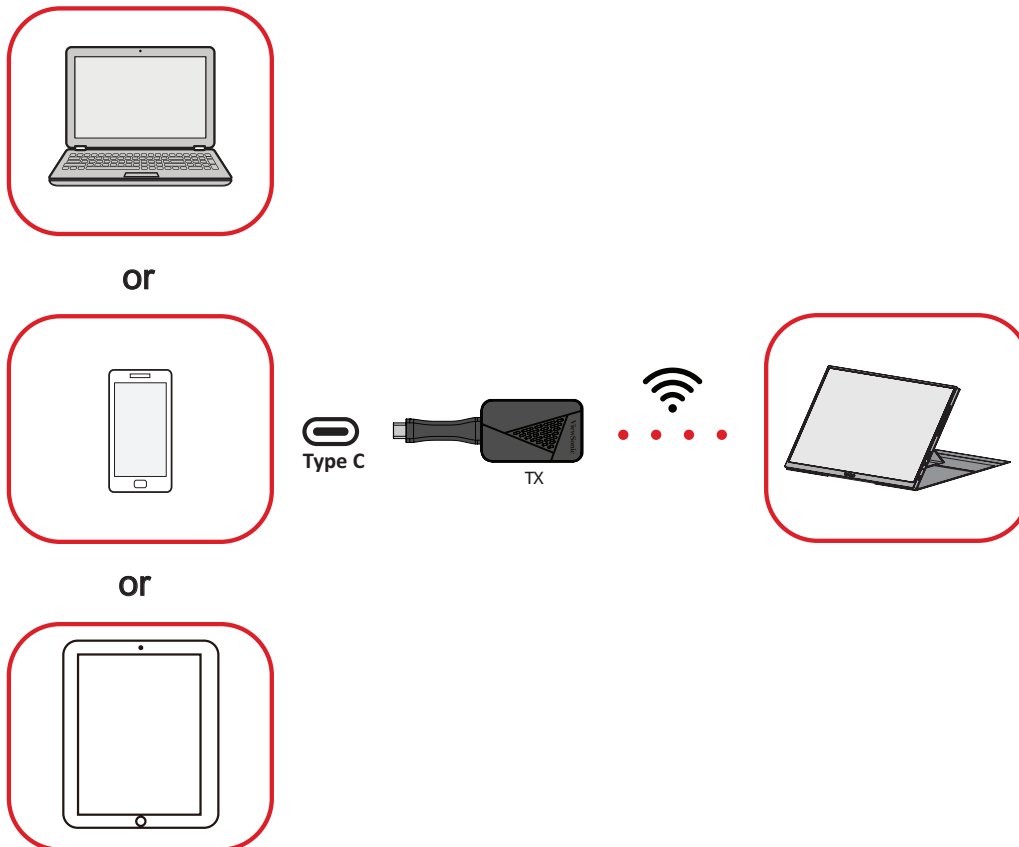
NOTE:

- Ensure your device supports video output and power delivery via a USB Type C port (DisplayPort Alternative Mode on USB Type C).
- Casting is supported for all laptops, including those running Windows and macOS, as well as Android and Apple devices with DP Alt output.
- Duplicate and Extend mode for Windows/macOS systems are supported.
- Genuine HDCP (High-bandwidth Digital Content Protection) for DRM (Digital Rights Management) streaming is supported.

Wi-Fi Display

Direct Wireless Cast

3. Connect the Wi-Fi TX Dongle to your external device.
4. Turn on the VG1656N by pressing the  **Power Button**.
5. Press **▲ Up** or **▼ Down** to open the On-Screen Display (OSD) Menu.
6. Press **▲ Up** or **▼ Down** to select **WiFi Display**. Then press the  **Power Button**.
7. The VG1656N can now directly wirelessly cast its screen.



USB Type C Signal Input

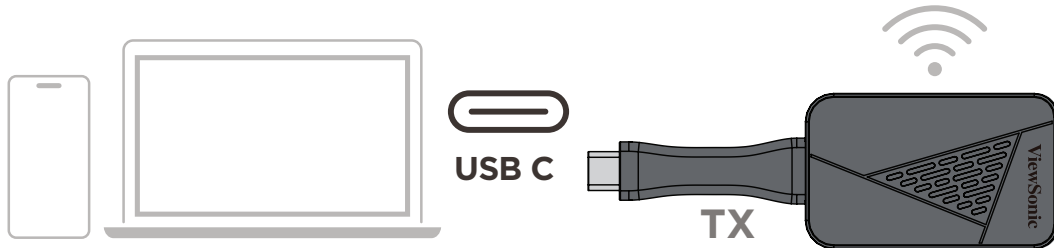
1. Connect the Wi-Fi TX Dongle to your external device.
2. On the monitor, press the  **Power Button** to open the On-Screen Display (OSD) Menu.
3. Press **▲ Up** or **▼ Down** to select **Input Select**. Then press the  **Power Button** to enter the menu.
4. Press **▲ Up** or **▼ Down** to select **WiFi Display**. Then press the  **Power Button**.

NOTE: Make sure your device is equipped with a USB Type C port that supports DisplayPort Alternate Mode for video output and power delivery capabilities.

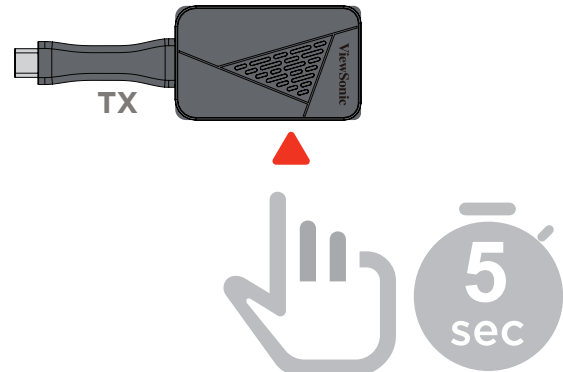
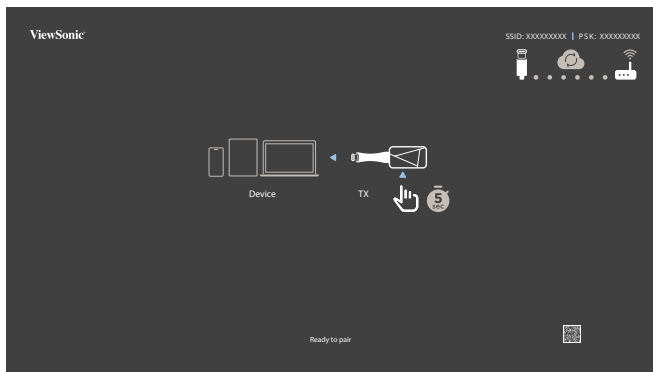
Re-Pairing the Transmitter

NOTE: Re-pairing is only required when the user's TX dongle is not the original TX dongle.

1. Connect the Transmitter's USB Type C Input to a **USB Type C** port of the casting device (e.g. laptop, mobile phone, tablet).



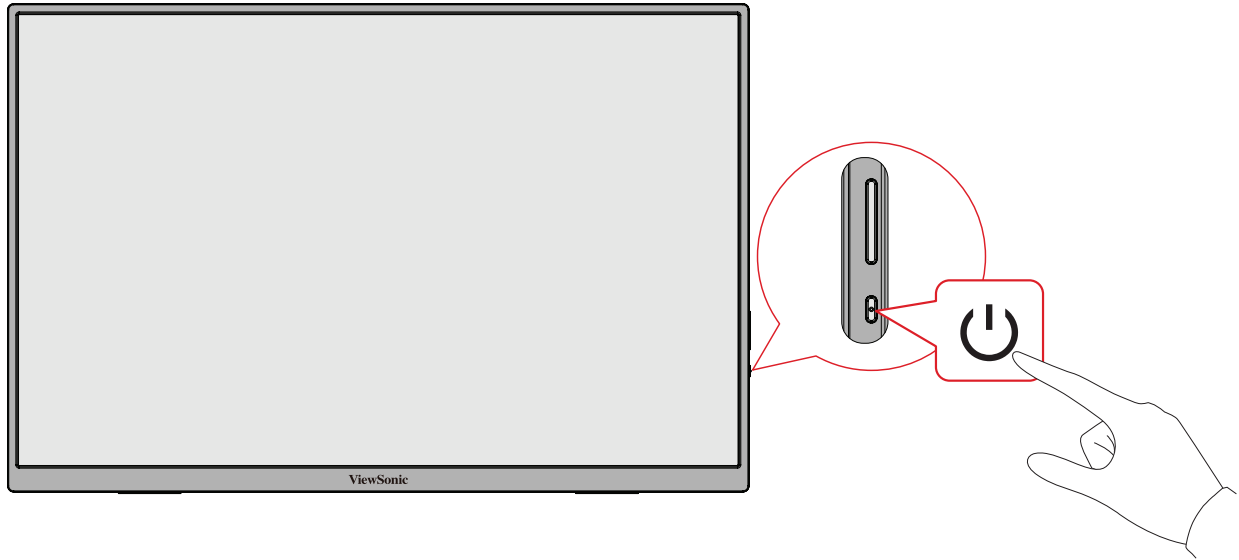
2. While the screen image displays, "Ready to Pair", use a paper clip or SIM-eject too to press and hold the Re-Pair button on the Transmitter for five seconds. Once paired, casting will start automatically.



Updating the Receiver Firmware

Open the OSD Menu and Select WiFi Re-Pair

1. Press the **Power** button on the right side of the VG1656N monitor to open the On-Screen Display (OSD) menu.

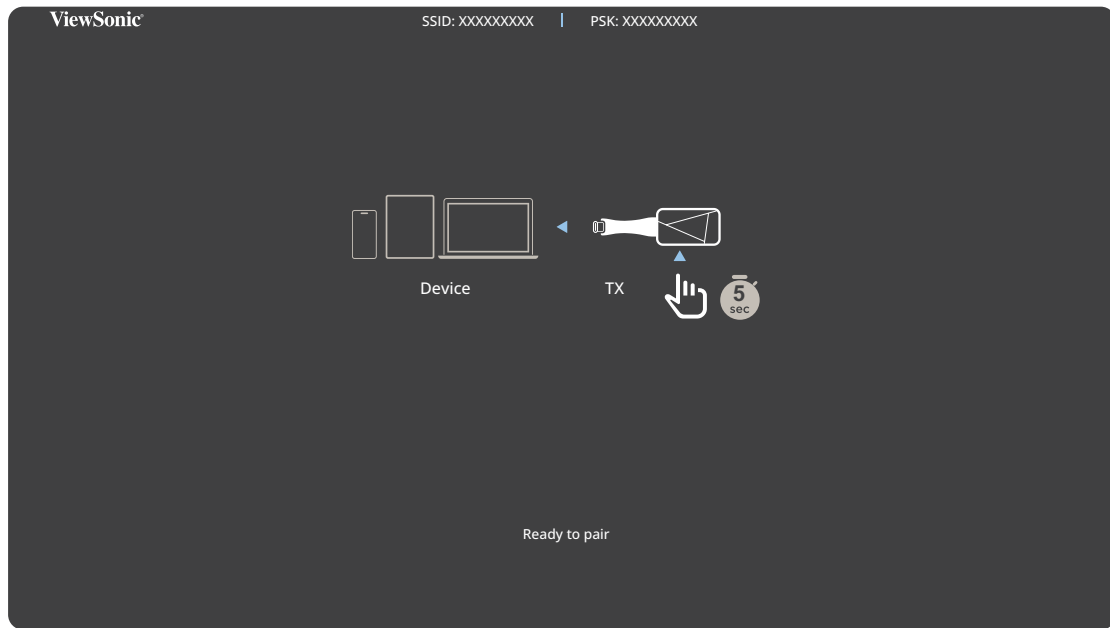


2. In the OSD menu, select **Input Select** then **WiFi Re-Pair**.

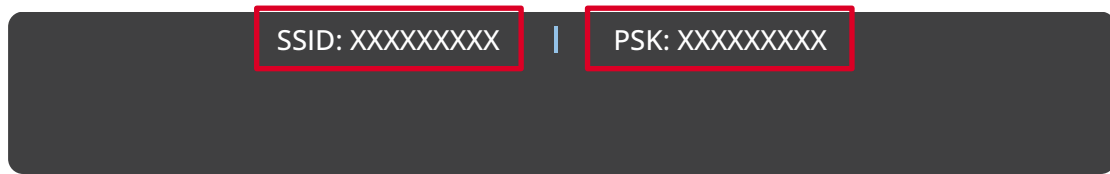
NOTE: Do not connect the TX dongle to the laptop at this time.

Connect the Laptop to the Monitor

1. After selecting **WiFi Re-Pair**, the VG1656N will display the below screen.

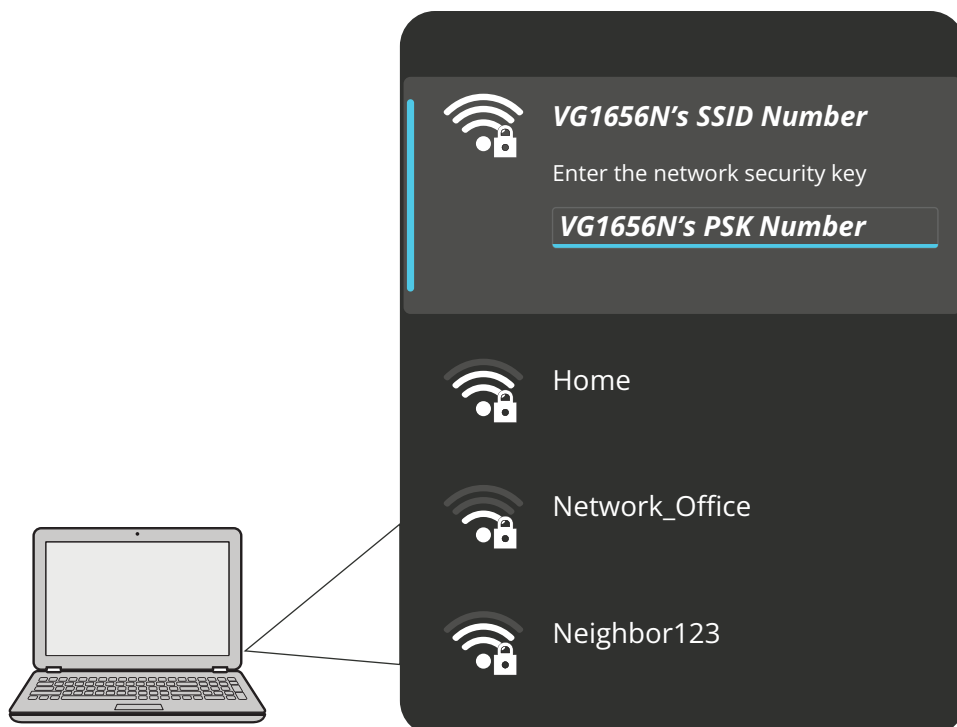


Make note of the **SSID** and **PSK** numbers located at the top of the screen.

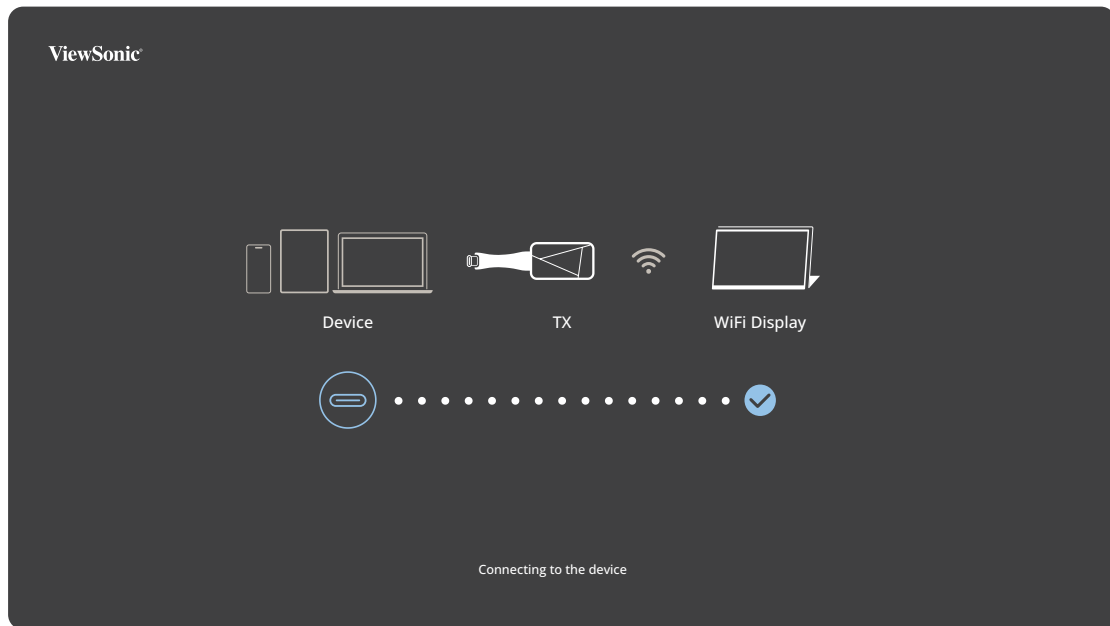


NOTE: Each VG1656N monitor has its own SSID and PSK number.

2. Go to the laptop's network settings and select the VG1656N's SSID. Then enter the VG1656N's PSK number to wirelessly connect to the VG1656N.

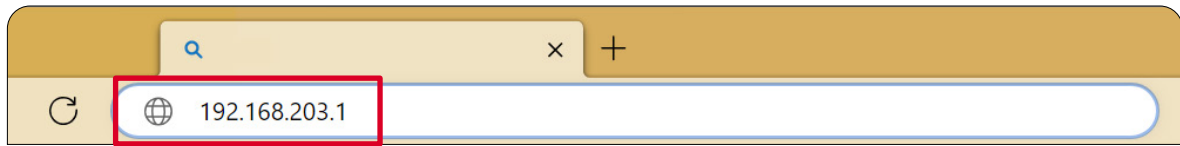


3. After the laptop successfully connects to the VG1656N monitor, the VG1656N screen will show the below connection screen.

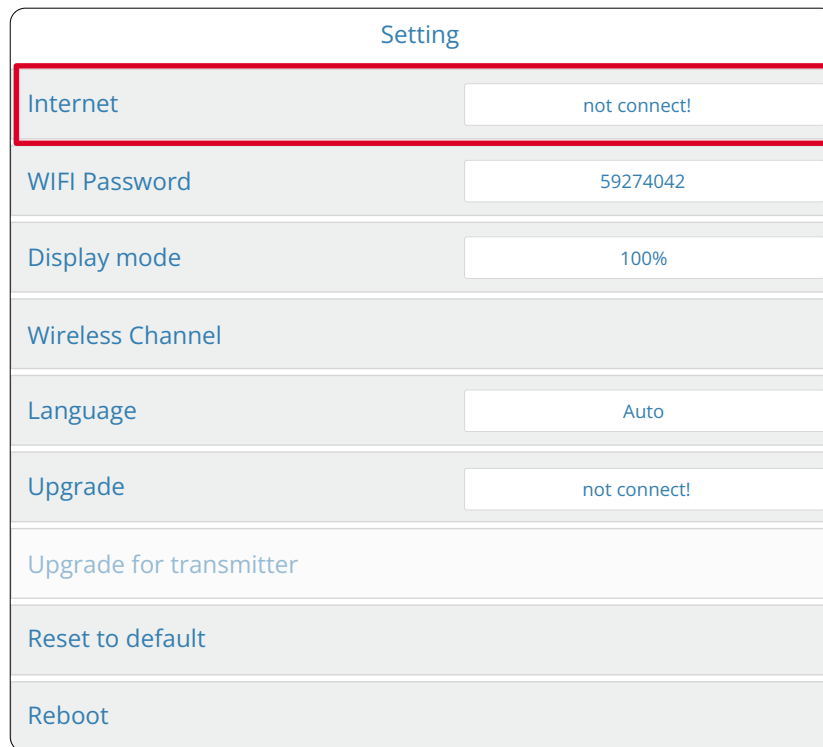


Updating the Receiver Firmware

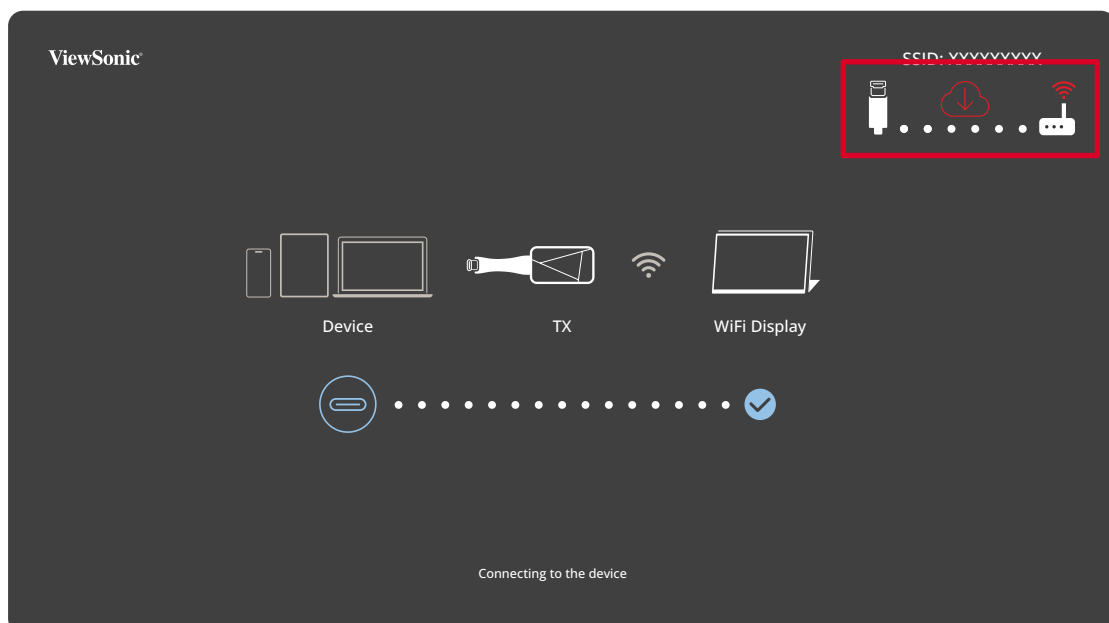
1. On the laptop, open a web browser and enter **192.168.203.1** in the address bar to access the Settings page.



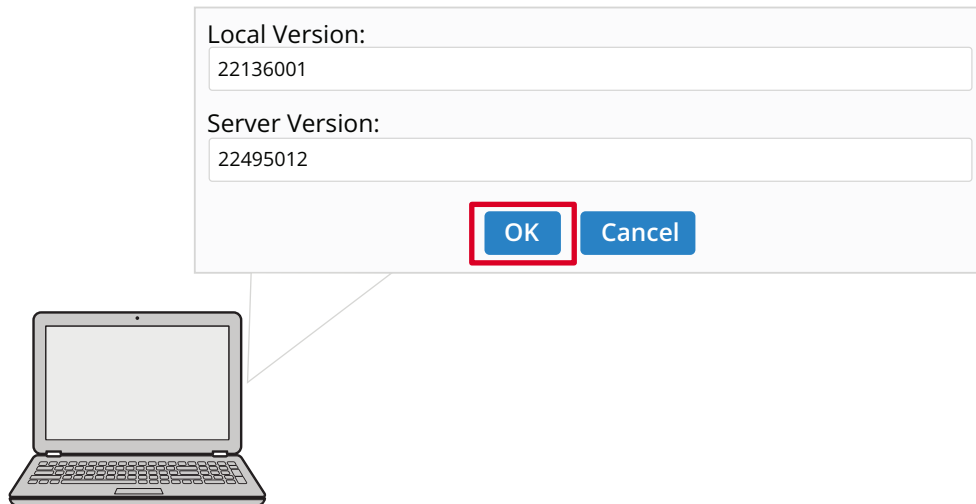
2. On the Settings page, click on **Internet** and connect to a local wireless network.



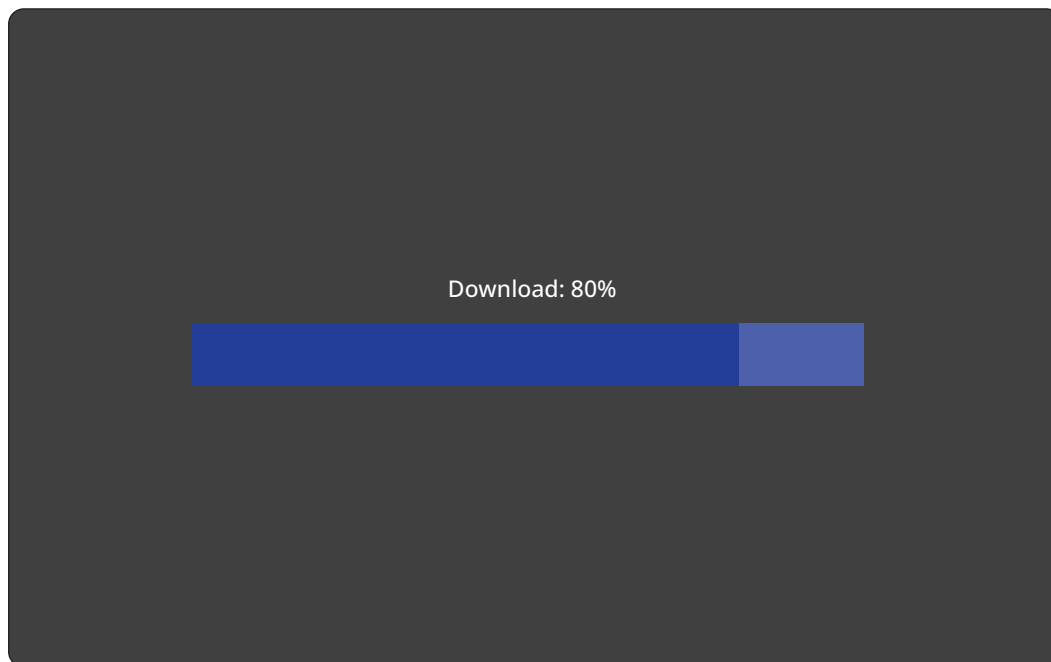
3. On the VG1656N's screen, in the upper-right corner, will be the server connection status. If a red cloud is present, it means that a firmware update is available.



4. On the laptop, if a firmware update is available the system will notify you. Click **OK** to update the firmware.



5. After clicking **OK**, the firmware update will begin. On the VG1656N's screen a progress bar will be displayed.



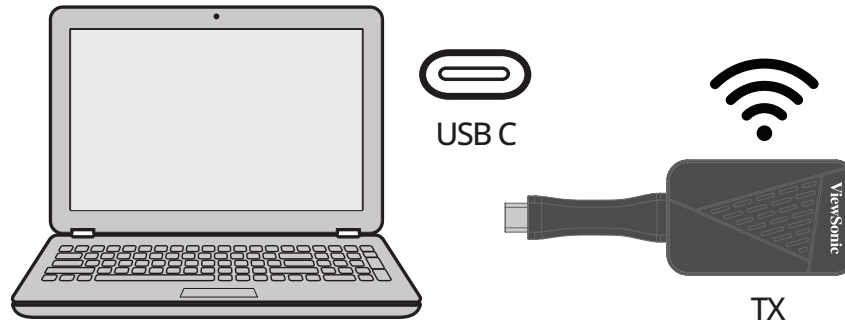
NOTE: During the update process, please ensure that the power remains on and that the devices stay connected.

6. The VG1656N will restart and return to its initial screen after the update process is complete. The firmware update for the WiFi receiver of the VG1656N has now been completed.

Updating the Transmitter Firmware

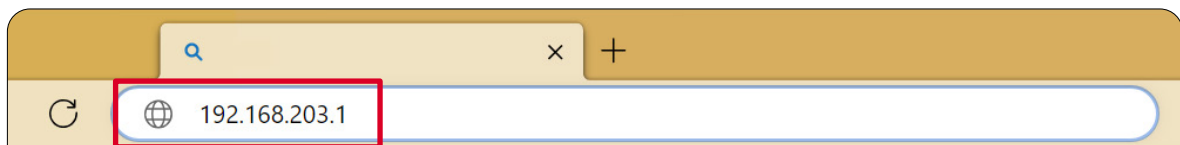
- Before updating the firmware, please insert the TX dongle into the laptop.

NOTE: Ensure the laptop supports video output and power delivery via USB Type C (DisplayPort Alternate Mode).

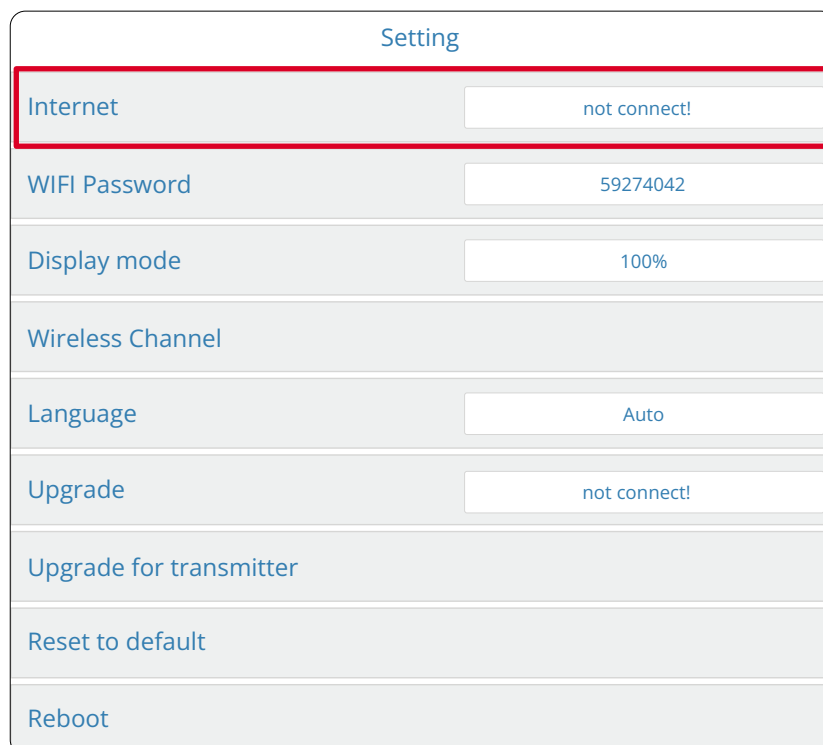


- Connect the laptop to the VG1656N monitor by following the steps on pages 6~8.

- On the laptop, open a web browser and enter **192.168.203.1** in the address bar to access the Settings page.



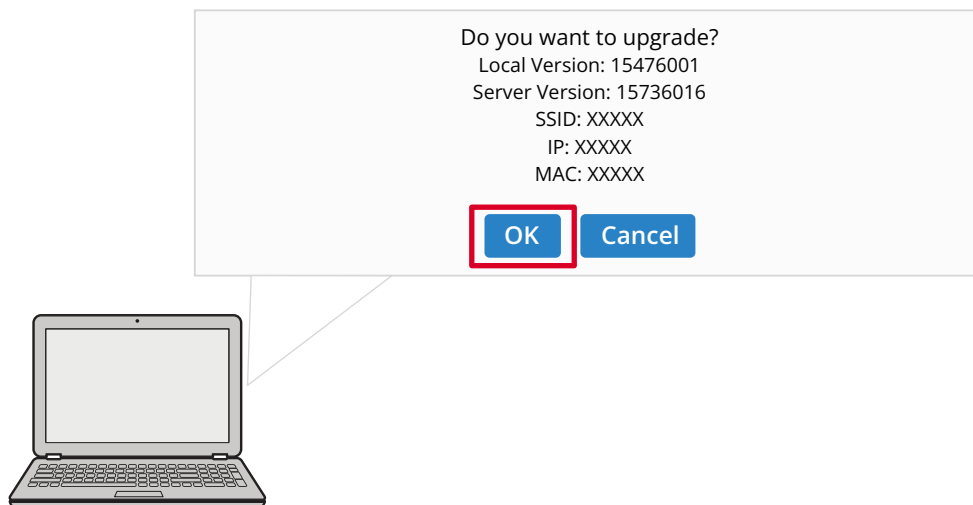
- On the Settings page, click on **Internet** and connect to a local wireless network.



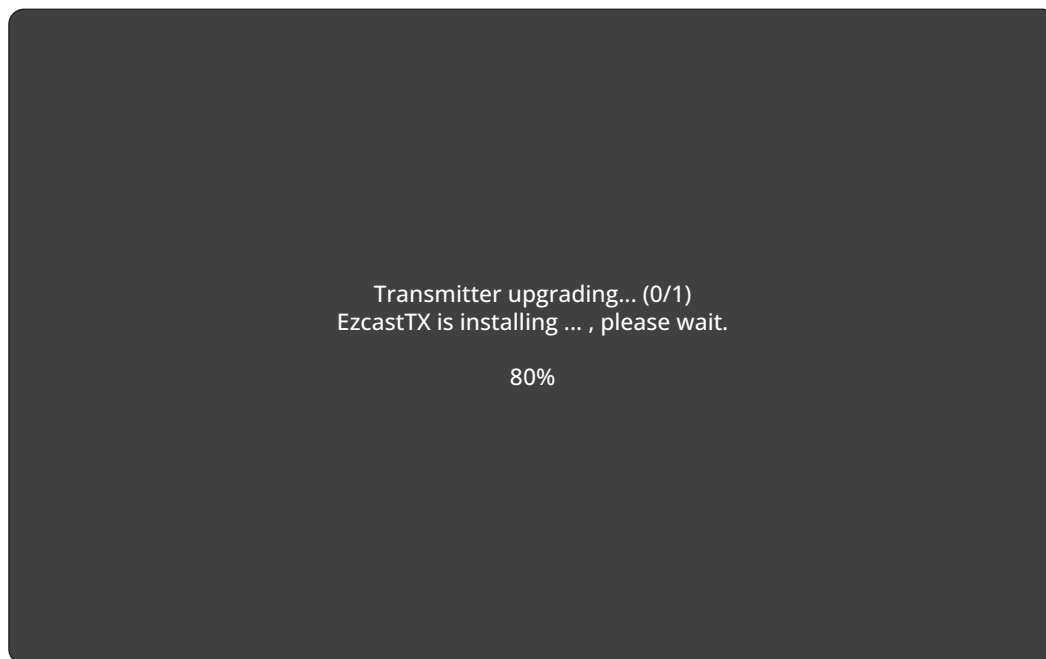
3. After connecting to a wireless network, click on **Upgrade for transmitter**.

Setting	
Internet	not connect!
WIFI Password	59274042
Display mode	100%
Wireless Channel	
Language	Auto
Upgrade	not connect!
Upgrade for transmitter	
Reset to default	
Reboot	

4. On the laptop, if a firmware update is available the system will notify you. Click **OK** to update the firmware.



5. After clicking **OK**, the firmware update will begin. On the VG1656N's screen the installation progress will be displayed.



- NOTE:** During the update process, please ensure that the power remains on and that the devices stay connected.
6. The VG1656N will restart and return to its initial screen after the update process is complete. The firmware update for the WiFi transmitter, the TX dongle, has now been completed.

Appendix

Specifications

Category	Specifications	
Function	Transmitter	
Main Chip	AM8360D	
Wi-Fi	5 GHz 1T1R	
HDCP Support	HDCP 1.4	
Video support	1920 x 1200 @ 60 Hz	
Audio support	2 channels, PCM	
Latency	50ms~100ms	
Distance	15 m (VG1656N)	
Antenna	Antenna Type	Printed Antenna
	Manufacturer	Actionsmicro
	Model Name	AM9421
	Antenna Gain	2dBi
	EIRP Max Power	13dBm
	Connector Type	N/A
Interface	Specifications	
USB C ¹	x 1	
Physical Buttons	Specifications	
Re-Pair Button	x 1	
Miscellaneous	Specifications	
Power Input	5V/0.9A	
Power Consumption	4.5W	
Physical Dimension (W x H x D)	170 x 40 x 16 mm	
	6.69" x 1.57" x 0.63"	
Weight	37.5 g	
	0.08 lbs	
Operating Temperature	0° C to 35° C.	
	32° F to 95° F	
Operating Relative Humidity	10% to 90% (non-condensing)	

NOTE: When connecting the mobile phone/tablet to the TX dongle, it may not be able to power the TX dongle if the battery level of the mobile phone/tablet is lower than 20%. Therefore, it is suggested that users fully charge the mobile phone/tablet first.

¹ - Ensure your device supports video output and power delivery via a USB Type C port (DisplayPort Alternative Mode on USB Type C).

LED Indicator

Transmitter

Light	Description
Solid White	The Transmitter is connected to the Receiver successfully and is operating normally.
Flashing (Slowly)	The Transmitter is ready to pair with the Receiver when the receiver is powered up.
Flashing (Quickly)	The Transmitter is connecting with the Receiver.
Off	The Transmitter is not working properly; or there is no power input.

Regulatory and Service Information

Compliance Information

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

FCC Compliance Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

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

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

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

Industry Canada Statement

CAN ICES-003(B) / NMB-003(B)

FCC Radiation Exposure Statement

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.

FCC ID: GSS-VS19948

IC Radiation Exposure Statement

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CE Conformity for European Countries



The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU. Radio Equipment Directive 2014/53/EU.

The following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



Declaration of RoHS2 Compliance

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

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr6 ⁺)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis(2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

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

- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
- Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher.

Indian Restriction of Hazardous Substances

Restriction on Hazardous Substances statement (India). This product complies with the “India E-waste Rule 2011” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Product Disposal at End of Product Life

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USA & Canada:

<https://www.viewsonic.com/us/go-green-with-viewsonic>

Europe:

<https://www.viewsonic.com/eu/environmental-social-governance/recycle>

Taiwan:

<https://recycle.moenv.gov.tw/>

For EU users, please contact us for any safety/accident issue experienced with this product:

ViewSonic Europe Limited



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Netherlands



+31 (0) 650608655



EPREL@viewsoniceurope.com



<https://www.viewsonic.com/eu/>

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Customer Service

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product's serial number.

Country/ Region	Website	Country/ Region	Website
Asia Pacific & Africa			
Australia	www.viewsonic.com/au/	Bangladesh	www.viewsonic.com/bd/
中国 (China)	www.viewsonic.com.cn	香港 (繁體中文)	www.viewsonic.com/hk/
Hong Kong (English)	www.viewsonic.com/hk-en/	India	www.viewsonic.com/in/
Indonesia	www.viewsonic.com/id/	Israel	www.viewsonic.com/il/
日本 (Japan)	www.viewsonic.com/jp/	Korea	www.viewsonic.com/kr/
Malaysia	www.viewsonic.com/my/	Middle East	www.viewsonic.com/me/
Myanmar	www.viewsonic.com/mm/	Nepal	www.viewsonic.com/np/
New Zealand	www.viewsonic.com/nz/	Pakistan	www.viewsonic.com/pk/
Philippines	www.viewsonic.com/ph/	Singapore	www.viewsonic.com/sg/
臺灣 (Taiwan)	www.viewsonic.com/tw/	ประเทศไทย	www.viewsonic.com/th/
Việt Nam	www.viewsonic.com/vn/	South Africa & Mauritius	www.viewsonic.com/za/
Americas			
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us
Latin America	www.viewsonic.com/la		
Europe			
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/
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