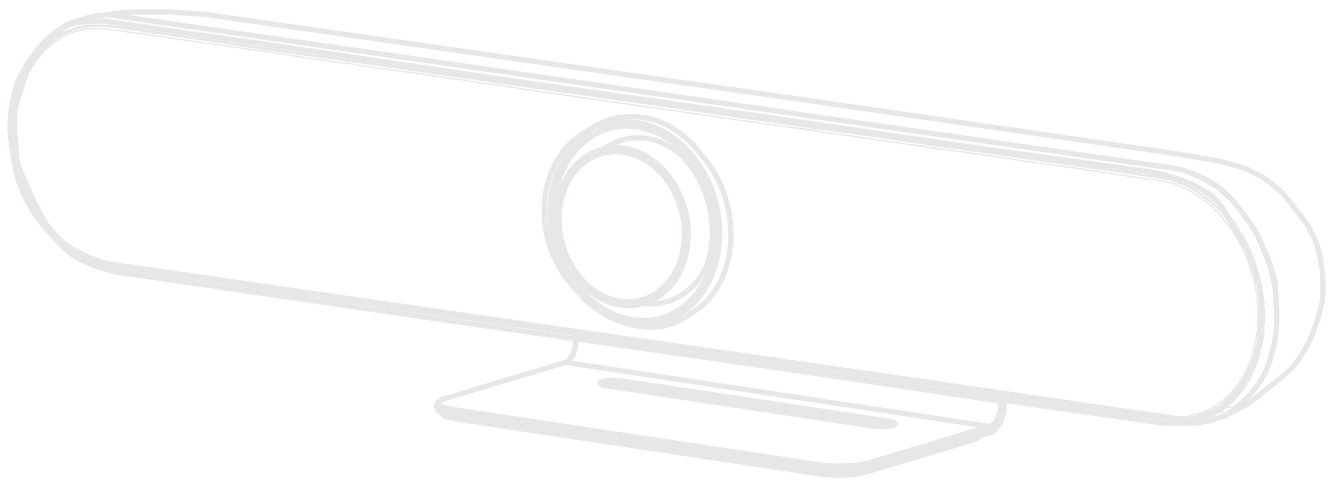


VB-CAM-201

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 in the upper right corner of our website.

Model No. VS18518
P/N: VB-CAM-201

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®!

Safety Precautions

Please read the following **Safety Precautions** before you start using the device.

- Keep this user guide in a safe place for later reference.
- Read all warnings and follow all instructions.
- To prevent damage, avoid any physical pressure, vibration, or immersion during transportation, possession, or installation of the product.
- Always place the product on a flat, stable surface.
- Avoid contacting any liquids, gas, or corrosive materials with the shell of the product.
- This product has no parts which can be repaired by the user. Any damage caused by the user's own disassembly is not covered by warranty.
- Electromagnetic fields at specific frequencies may affect the image of machine.

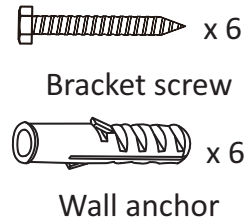
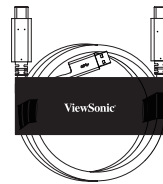
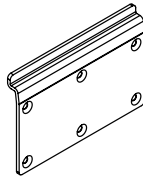
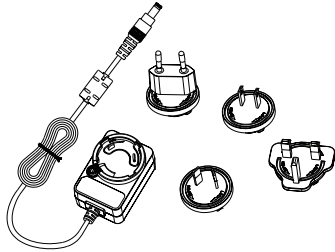
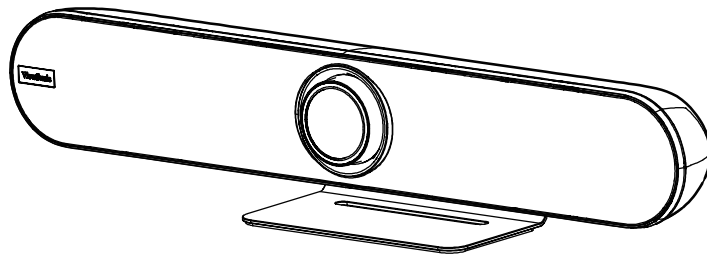
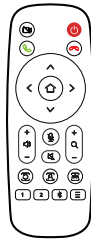
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Introduction

Package Contents

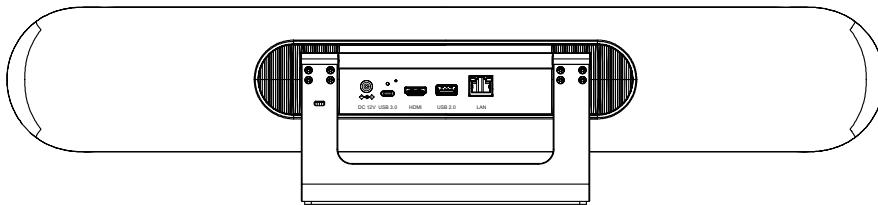
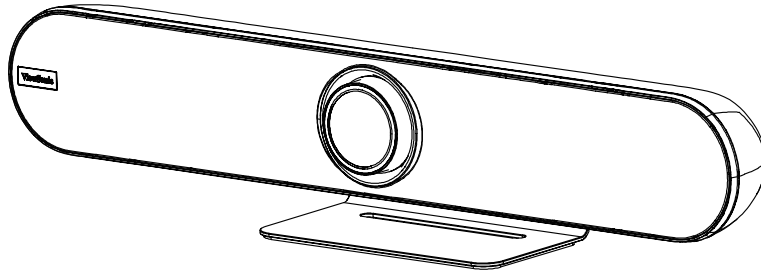


1. VB-CAM-201
2. Documentation
3. Remote Control
4. Power Adapter

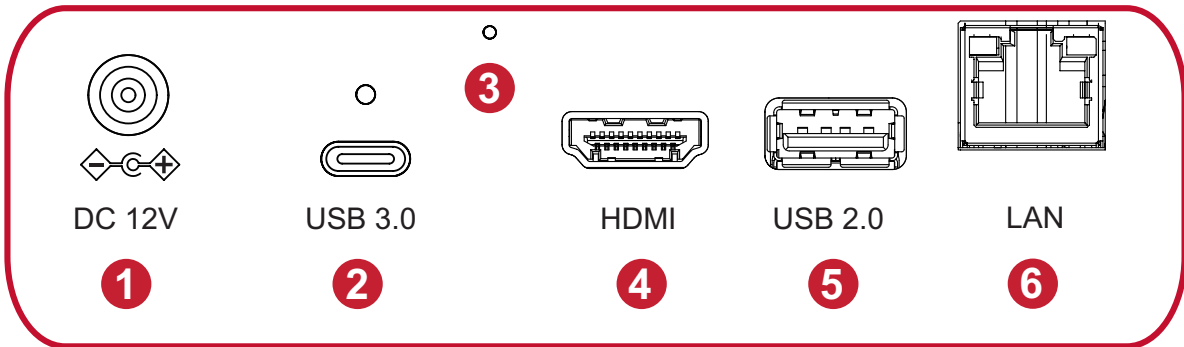
5. Bracket
6. USB Type-C Cable
7. Bracket Screw x 6
8. Wall Anchor x 6

Product Overview

VB-CAM-201



I/O Ports

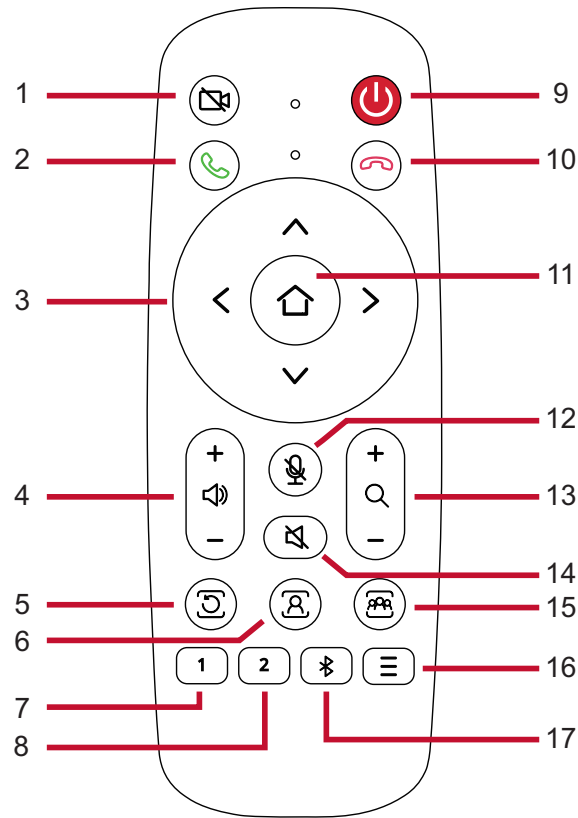


- | | | |
|----------|------------|-----------------|
| 1. DC IN | 2. USB 3.0 | 3. Reset Button |
| 4. HDMI | 5. USB 2.0 | 6. RJ45 |

NOTE:

- The HDMI port only supports video output.
- The RJ45 port only supports parameters management.
- The USB 2.0 port is only designed for external USB microphone connection use.

Remote Control



Number	Key	Description
1	Camera Disable	Disable/Enable the video.
2	Call	Answer/Start call/Enter call interface ¹ .
3	Control Key	Menu Control/Camera moving direction.
4	Volume Up/Down	Audio volume control.
5	Exit Tracking	After pressing, the camera will exit the tracking mode.
6	Speaker Tracking	Press for voice tracking of the speaker.
7	Preset 1	Long press to set Preset 1; short press to call Preset 1.
8	Preset 2	Long press to set Preset 2; short press to call Preset 2.
9	Standby	Long press to enter Standby mode; short press to return to Normal mode.
10	Hang Up	Hang up the call/Reject to join the meeting ¹ .
11	OK (Confirm)	Confirm selection/Camera returns to home position.
12	Microphone Mute	Disable/Enable the microphone.
13	Zoom	Zoom In/Out.
14	Speaker Mute	Disable/Enable the speaker.
15	Participant Tracking	The camera will automatically track the participants.
16	Menu	Enter/Exit the OSD menu.
17	Bluetooth	Disable/Enable Bluetooth. Long press to switch Host and Client mode after Bluetooth is enabled.

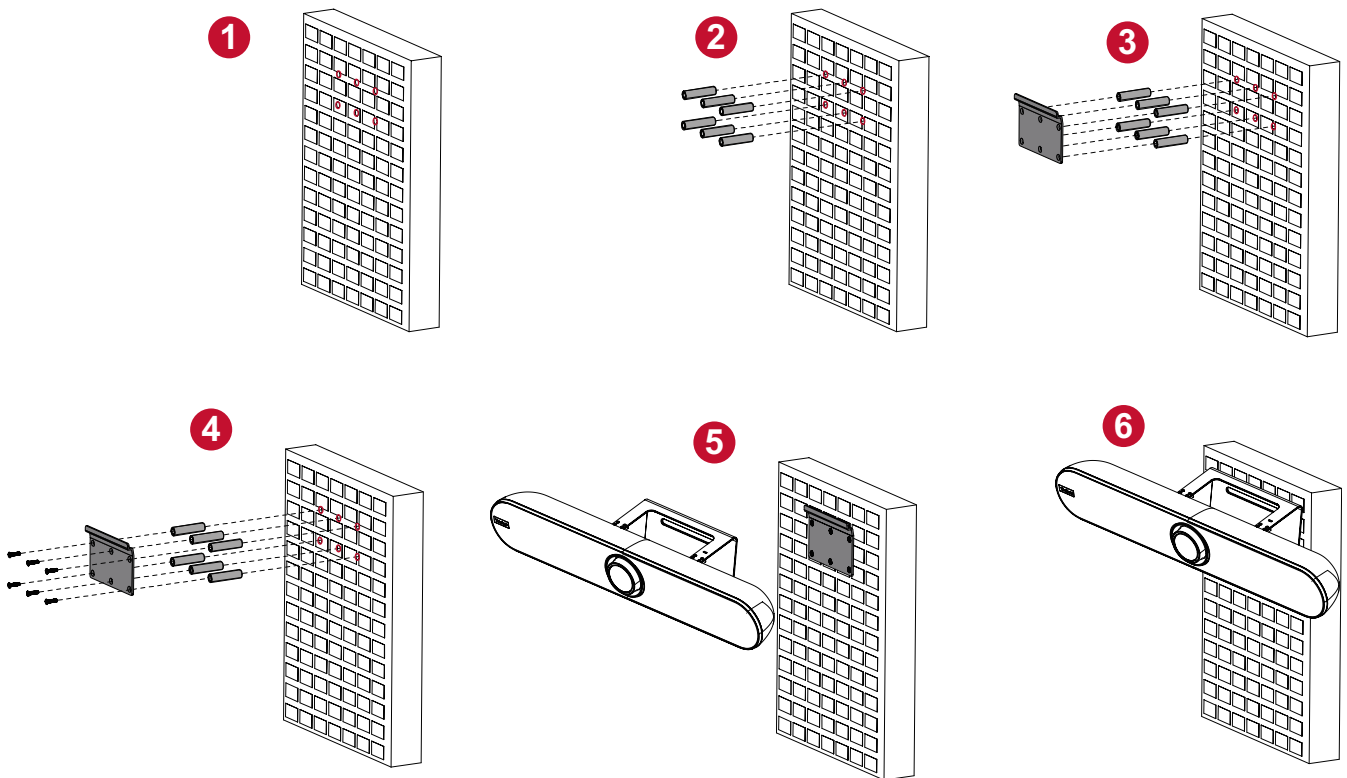
¹ For “Skype for Business” and “Microsoft Teams” only.

Remote Control & Batteries

- Avoid leaving the remote control or batteries in excessive heat or humidity.
- Always dispose of old batteries in an environmentally friendly way. Contact your local government for more information on how to dispose of batteries safely.
- Remove the batteries if the remote control will not be in use for an extended period of time.
- It is recommended that you do not mix battery types.

Initial Setup

Installing the Camera



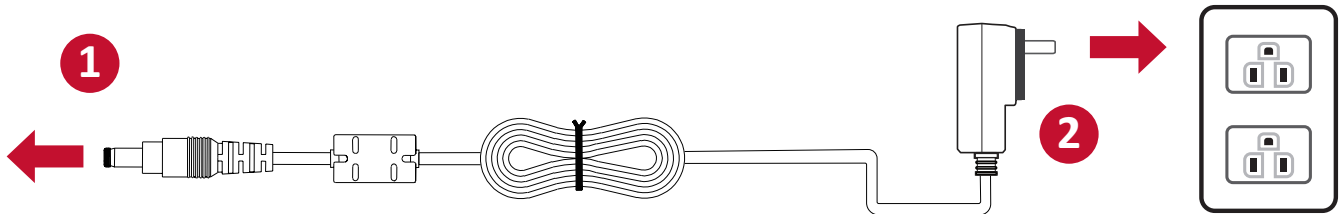
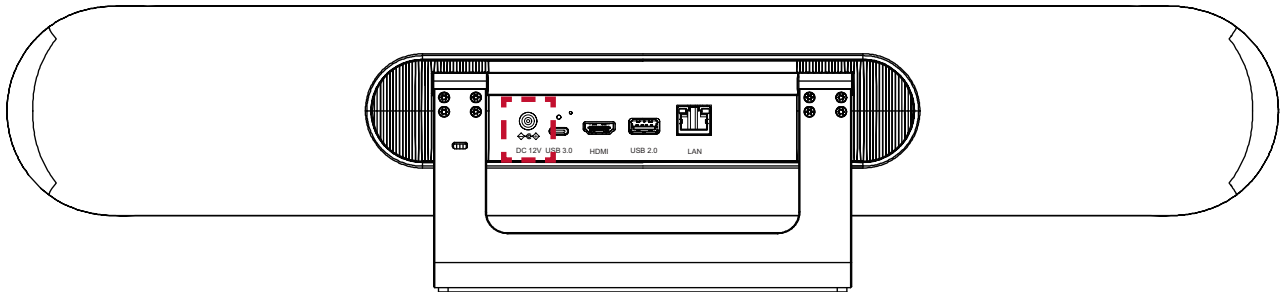
1. Pre-drill six (6) holes into the wall.
2. Install the six (6) wall anchors.
3. Align the wall bracket with the six (6) anchors.
4. Install the wall bracket with the six (6) bracket screws.
5. Attach the camera to the wall bracket.
6. The camera is now installed.

NOTE: There is a 3% dimension tolerance when mounting the camera. It is recommended to physically measure the size and difference between users and the camera before permanently installing.

Making Connections

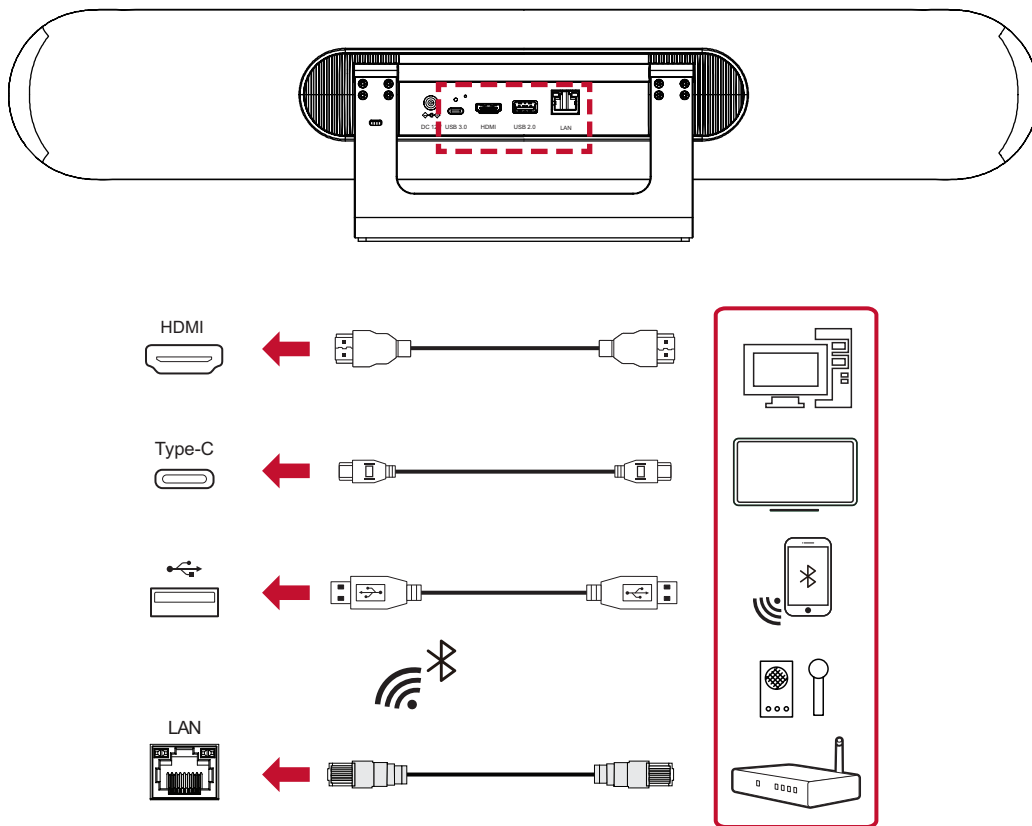
Connecting to Power

1. Connect the power cord to the DC IN jack at the rear of the camera.
2. Connect the power cord plug to a power outlet.



NOTE: The power adapter includes four different plug faces.

Connecting External Devices



NOTE: Ensure the camera (VB-CAM-201) is the default video and audio output device when being used.

HDMI Connection

Connect one end of an HDMI cable to the HDMI port of the camera. Then connect the other end of the cable to the HDMI port of your device.

NOTE: The HDMI port only supports video output.

USB Connection

Connect one end of a USB cable to a USB port of the camera. Then connect the other end of the cable to a USB port of your device.

NOTE:

- To output 4K video, a USB 3.0 cable is required.
- The USB 2.0 port is only designed for external USB microphone use.
- The USB Type C cable supports USB 3.0 output.
- The USB Type C female to USB male adapter only supports 2.0 output.

Bluetooth Connection

Open the Bluetooth mode and search for the device as an external speaker. If the connection is successful, the LED light will be blue. Refer to page 36 for LED light indicator details.

Host Mode

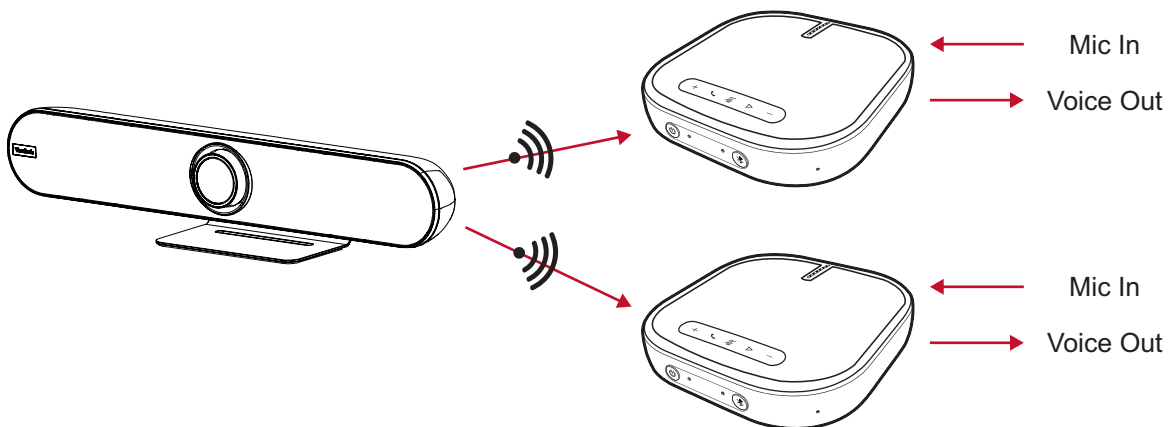
Under host mode, VB-CAM-201 can automatically connect to VB-AUD-201 and has a connection capacity of two. If the connection is not reaching maximum capacity, VB-CAM-201 will continuously search for VB-AUD-201 until reaching maximum capacity.

NOTE: If the connection time goes over 60 seconds, push the Bluetooth pairing button again on VB-AUD-201.

Host mode provides two options, **Host 1** and **Host 2**.

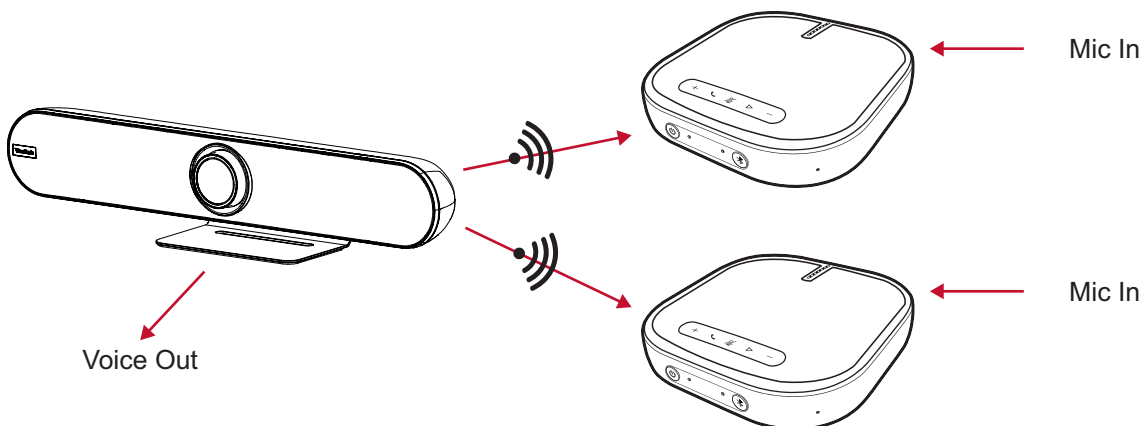
Host 1:

Under Host 1, the audio is only output from VB-AUD-201 and the speaker on VB-CAM-201 is mute. If the voice out volume is too low, adjust the volume on VB-AUD-201.



Host 2:

Under Host 2, the audio will output from both VB-CAM-201 and VB-AUD-201 speakers. To avoid any negative influence from a stereo effect, the voice volume of the VB-AUD-201 is limited to a minimum level and cannot be adjusted.



NOTE: The default setting of Host mode is Host 2. The user can switch the Host mode in *BT Host Mode* setting in the OSD Menu or via Remote Control. Refer to page 37 to know the LED light difference between Host 1 and Host 2 mode.

Client Mode

Open the Bluetooth client mode and search for the device as an external speaker. If the connection is successful, the LED light will be blue.

Remote Control Pairing

1. Connect the power supply to the camera and power it on.
2. Clear the paired status of the remote control:
 - » Press the **Menu Button** and **OK** buttons at the same time, keep pressing until the remote control indicator shows a steady red light, release the buttons to successfully clear the paired remote control.
3. Trigger the camera to enter the remote control pairing mode:
 - » Press the **Reset** button on the camera, and the camera's LED light will switch to blue. This indicates it has entered pairing mode.

NOTE: Each time you enter pairing mode, there is only 15 seconds of operation time. After which, the pairing mode will automatically end.
4. Start pairing:
 - » Using a cleared remote control, press and hold the **Menu Button**, and wait for the pairing to complete.
 - » When the normal pairing is successful, the camera's LED light will be flashing blue.
 - » If the pairing fails, please repeat steps 2~4 until the pairing is successful.

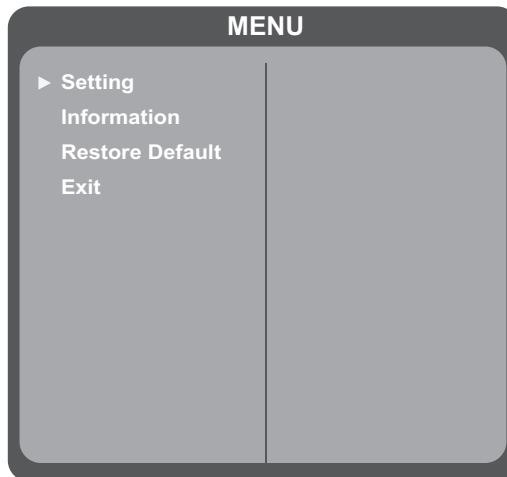
NOTE: The remote control has been paired with the VB-CAM-201 at the factory, and it can be used normally without any special operation.

Using the Device

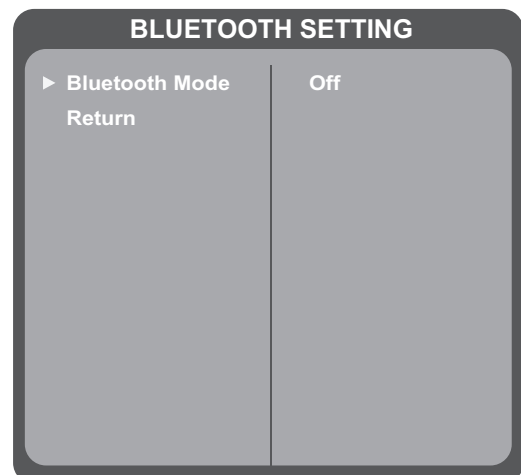
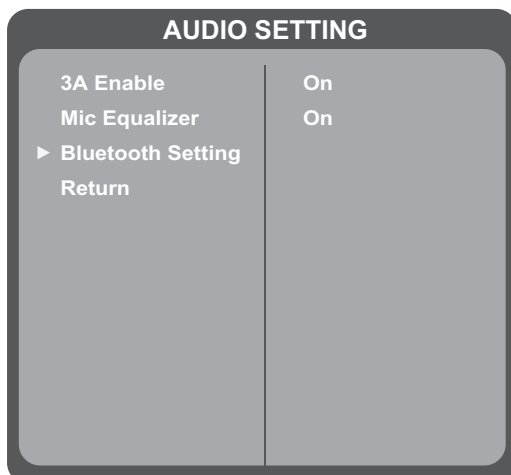
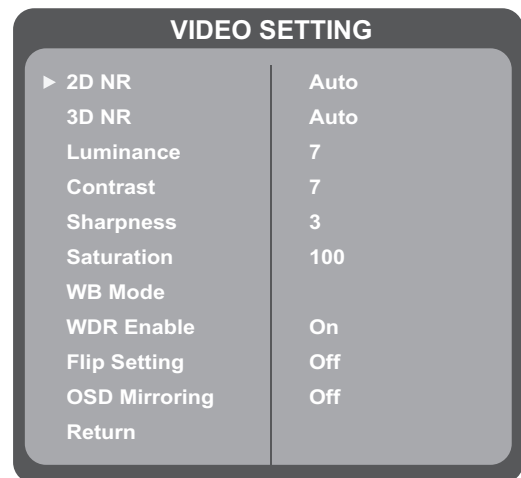
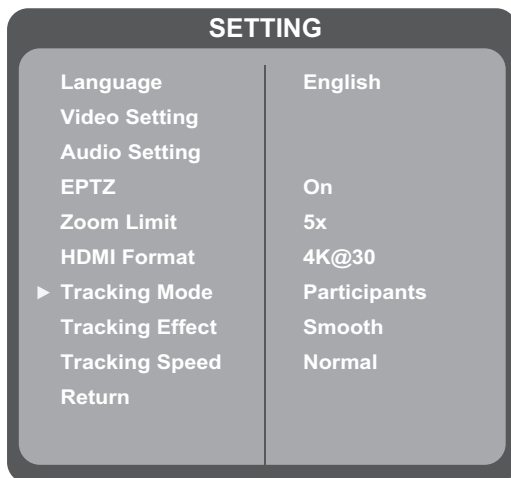
Configuring the Settings

General Operations

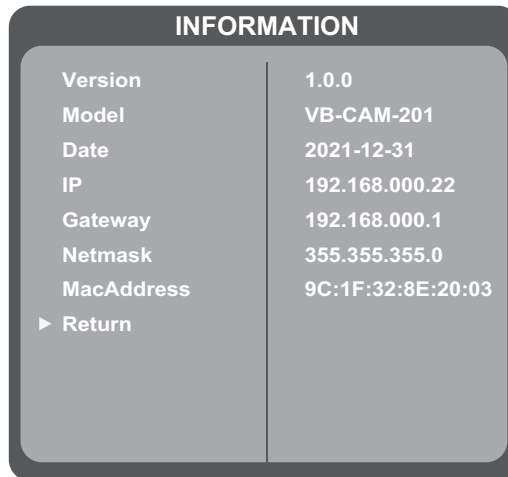
1. Press the **Menu** button to display the On-Screen Display (OSD) Menu.



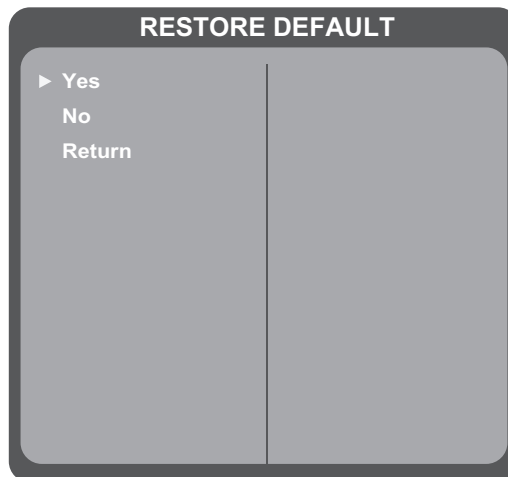
2. Use the **Directional** buttons to navigate the menu, and press **OK** to enter the selected menu.



3. Return to the previous menu by selecting “Return” and pressing the **OK** button.



4. To restore the menu settings to default, select “Restore Default” and press the **OK** button. Next, select “Yes” and press the **OK** button.



On-Screen Display (OSD) Menu Tree

Main Menu	Sub-menu	Menu Option			
Setting	Language	English			
		简体中文 ¹			
		繁體中文 ¹			
		Français			
	Video Setting	2D NR	Auto		
			Close		
			(-/+ , 1~5)		
		3D NR	Auto		
			Close		
			(-/+ , 1~8)		
		Luminance	(-/+ , 0~14)		
		Contrast	(-/+ , 0~14)		
		Sharpness	(-/+ , 0~14)		
		Saturation	(-/+ , 60~200)		
		WB Mode	WB Mode	Auto	
				Indoor	
				Outdoor	
				One Push	
				Manual	
			R Gain	(-/+ , 0~250)	
			B Gain	(-/+ , 0~250)	
Return					
WDR Enable	On				
	Off				

¹ The languages will be available after a software update; please check the software information.

Main Menu	Sub-menu	Menu Option		
Setting	Video Setting	Flip Setting	Flip-H	On
				Off
			Flip-V	On
				Off
			Return	
		OSD Mirroring	On	
			Off	
		Return		
	Audio Setting	3A Enable	On	
			Off	
		Mic Equalizer	On	
			Off	
		Bluetooth Setting	Bluetooth Mode	
			BT Host Mode	
			Return	
		Return		

Main Menu	Sub-menu	Menu Option
Setting	EPTZ	On
		Off
	Zoom Limit ¹	1.5x
		2x
		3x
		4x
		5x
		HDMI Format ¹
	1080P30	
	1080P60	
	1080P50	
	Tracking Mode ¹	Off
		Participants
		Speaker
	Tracking Effect ²	Smooth
		Instantaneous
	Tracking Speed ²	Normal
		Slow
		Fast
	Information	Version
		Model
		Date
		IP
		Gateway
		Netmask
		MacAddress
		Return
	Restore Default	Yes
		No
		Return
	Exit	

¹ Hidden when EPTZ is Off.

² Hidden when EPTZ or Tracking Mode are Off.

Network

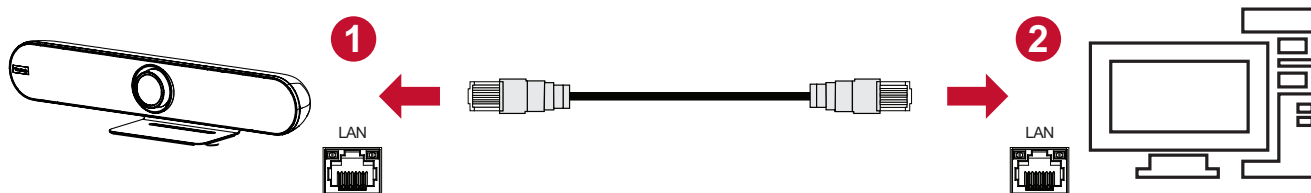
NOTE: The Camera IP address, by default, is set as **Fixed IP address**. Once you follow the below steps to connect to the camera, you can adjust the setting to **Dynamic IP address** and let your Router/DHCP server assign the network setting to the camera automatically.

Get the Camera's IP Address

The camera's factory default IP address is **192.168.100.88**.

To check this IP address, you can use the remote control to open the menu and find the intranet setting in the **INFORMATION** page.

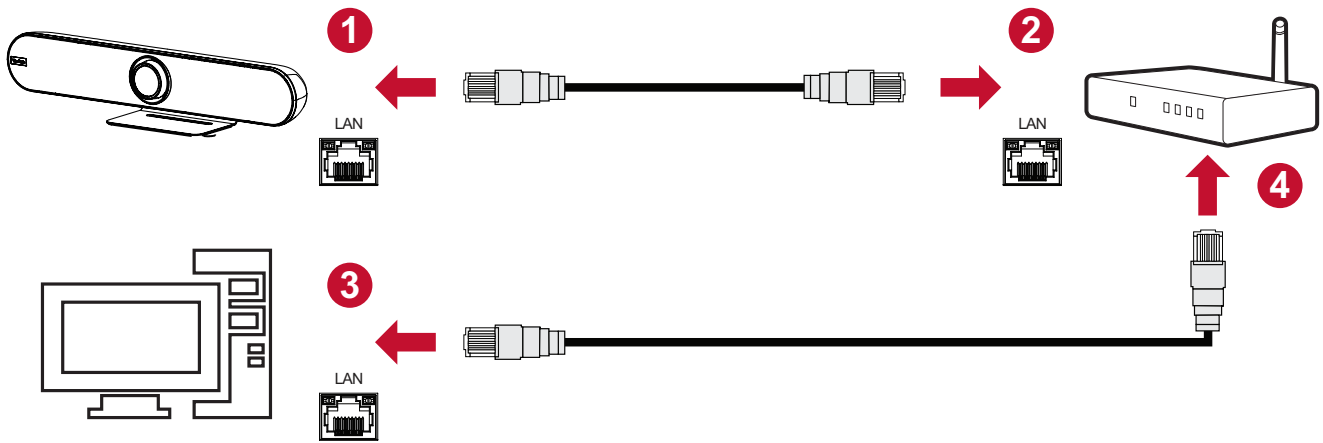
Connect to a Computer



Connect the camera to a computer via a network cable directly.

1. Connect one end of a CAT5/5e/6 network cable to the camera.
2. Connect the other end of the network cable to the Ethernet interface of the computer (LAN port).
3. Connect the camera to a power supply.
4. Configure the computer network setting to the IP address **192.168.100.2** and subnet mask setting to **255.255.255.0**.

Connect to the Router



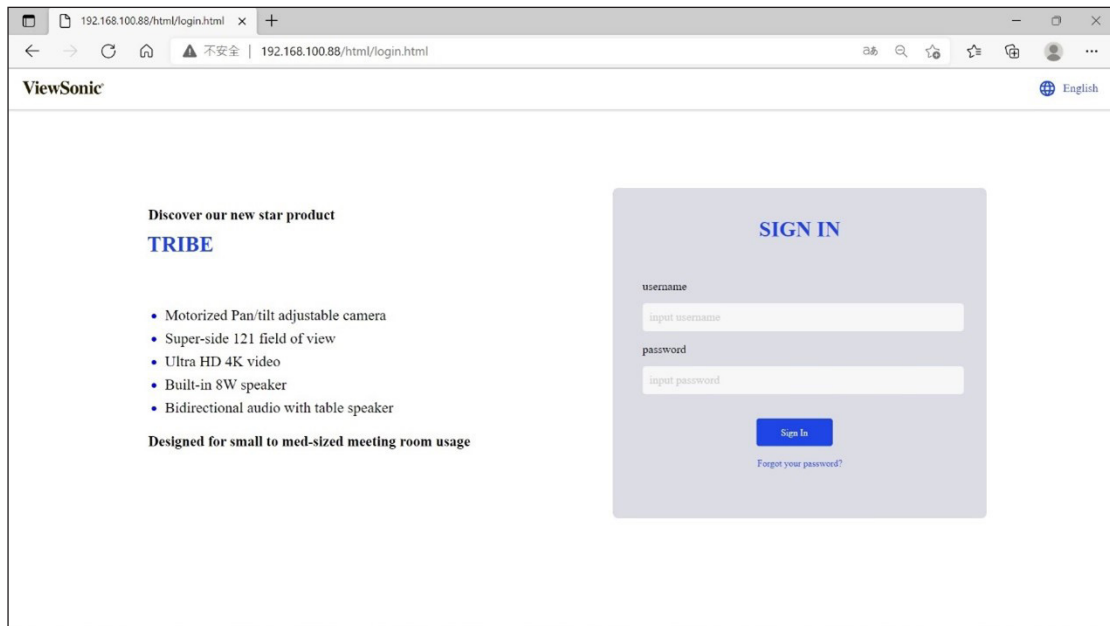
Connect the camera and computer to the same router via a network cable.

1. Connect one end of a CAT5/5e/6 network cable to the camera.
2. Connect the other end of the network cable to the Ethernet interface of the router (LAN port).
3. Connect the camera to a power supply.
4. Connect the network cable to the Ethernet interface of the computer and router (LAN port).
5. Configure the computer network setting to the IP address **192.168.100.2** and subnet mask setting to **255.255.255.0**.

Setup Camera

Open your web browser and enter: **http://192.168.100.88**

You will see the login web page as below if your cables are connected and network settings are correct.

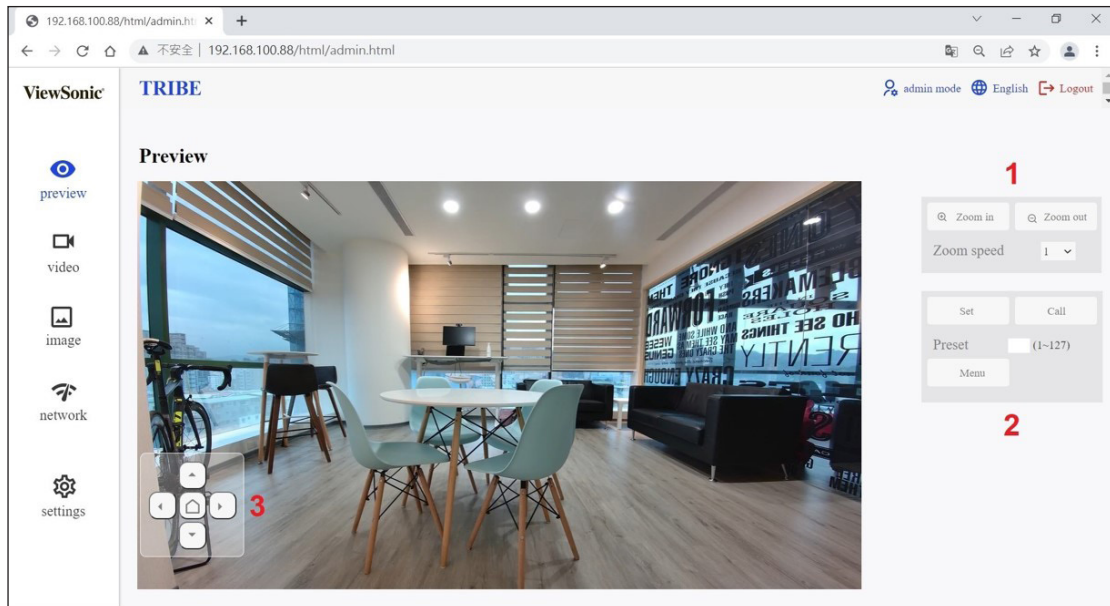


There are two accounts built into the camera system:

- Administrator - The default username is **admin**, password is **test**. This account can access all functions on the web page.
- Guest – The default username is **guest**, password is **test**. This account only can access the basic functions on the web page.

NOTE: The username and password can be changed in the **SETTINGS** menu.

Preview Menu



There are three main functions in this menu:

- Zoom adjust
- Set and call presets
- Pan, Tilt, and On-Screen Display (OSD) menu control

Zoom

Manually adjust the zoom of the camera.

NOTE: The larger the number, the faster the in/out “zoom speed”.

Preset

Preset positions are the camera’s memorized Pan, Tilt, and Zoom position that can be recalled.

To set a preset position:

1. Adjust the Pan, Tilt, and Zoom to your desired position.
2. Key in the number you want to assign to this position.
3. Click the **Set** button to save this position.

To recall a preset position:

1. Input the preset number you want to call back.
2. Click the **Call** button to recall the position.
3. The camera will adjust the Pan, Tilt, and Zoom to the position automatically.

Up/Down/Left/Right/Home Button

These buttons can control the Pan and Tilt movement and the On-Screen Display (OSD) menu.

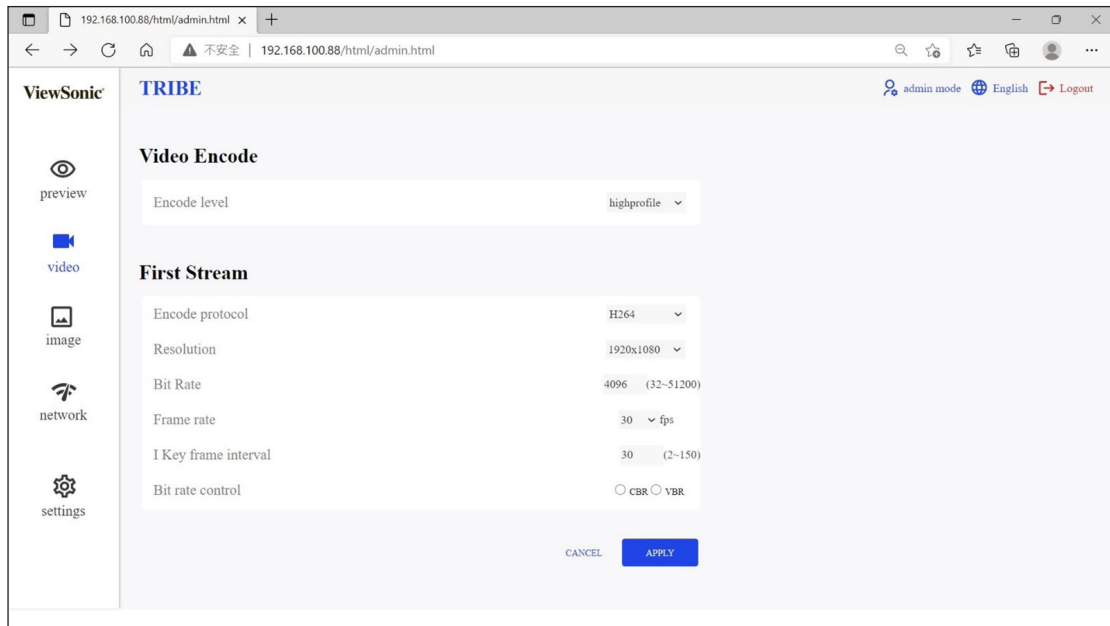
To adjust the OSD menu:

1. If there is no OSD menu displayed on the screen, click the **Menu** button via mouse cursor to open the OSD menu.
2. Click the Up/Down/Left/Right/Home button to select and change the camera's function.

To adjust Pan and Tilt:

1. Make sure the OSD menu is closed. If it is not, click the **Menu** button to close the OSD menu.
2. Use the Up/Down button to control the Pan angle; use the Left/Right button to control the Tilt angle.

Video Menu



Video Encode

Encode level

- Default: Mainprofile
- Baseline: A simple profile with a low compression ratio.
- Main: An intermediate profile with a medium compression ratio.
- High: A complex profile with a high compression ratio.

First Stream

Encode protocol

- Default: H264
- Video stream compress format, this camera supports two types of format: H.264 and MJPEG.
- H264 format needs more performance to decode and encode, but less bandwidth requirement.
- MJPEG format is easier for backend editing.

Resolution

- Default: 1920 x 1080
- Choose the resolution for the video stream.

Bit Rate

- Default: 4096
- The bigger the value, the better the video quality; however, more bandwidth is required.

Frame rate

- Default: 30 FPS
- Select the number of images to be transmitted per second.

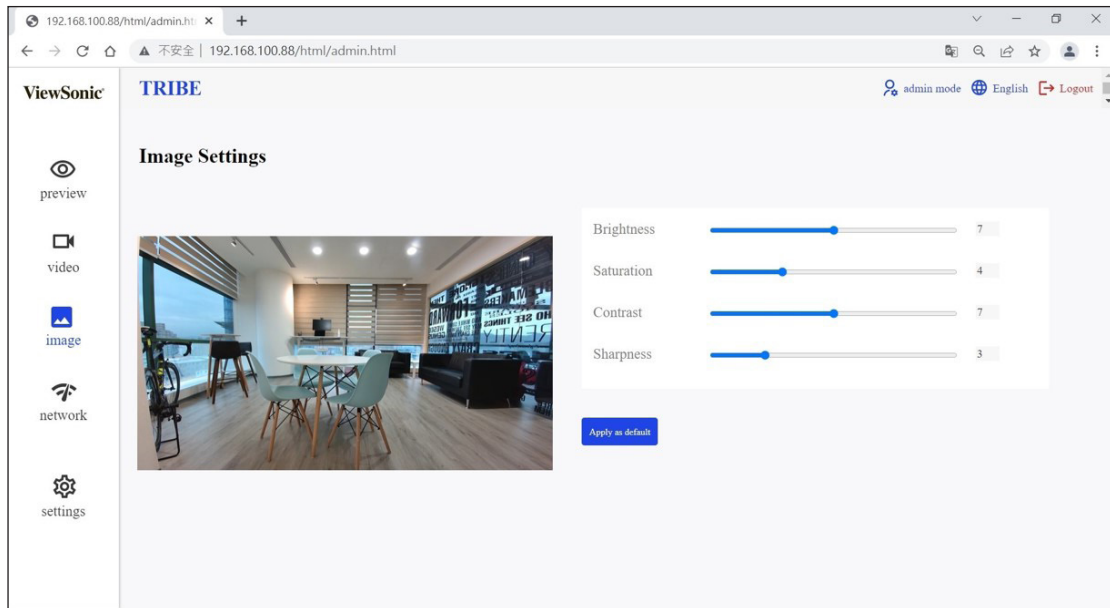
I Key frame interval

- Default: 30
- Select how often an I frame should be sent (H.264 only). The more often an I frame (full image) is sent, the better the video quality is; however, more bandwidth is required.

Bit rate control

- Default: CBR
- CBR: keeps the bit rate constant at the set value, regardless of the quality.
- VBR: keeps the video quality constant at the set value, regardless of the maximum bit rate.

Image Menu



Brightness

Brightness of the video image. Adjust these values to suit the ambient conditions.

Saturation

Saturation of the video image. Adjust these values to suit the ambient conditions.

Contrast

Contrast of the video image. Adjust these values to suit the ambient conditions.

Sharpness

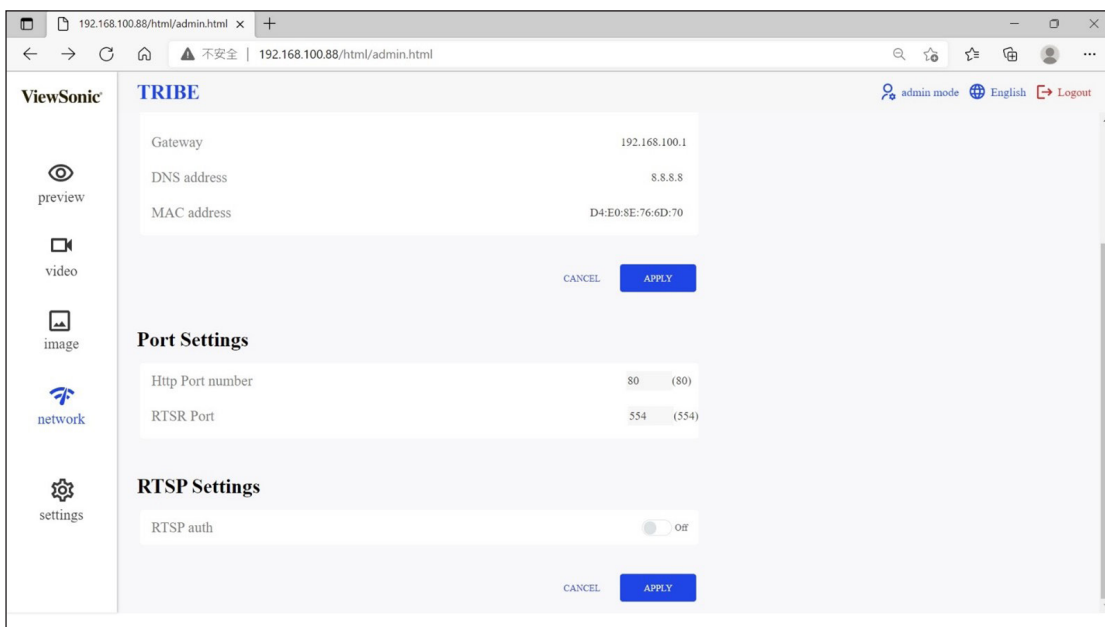
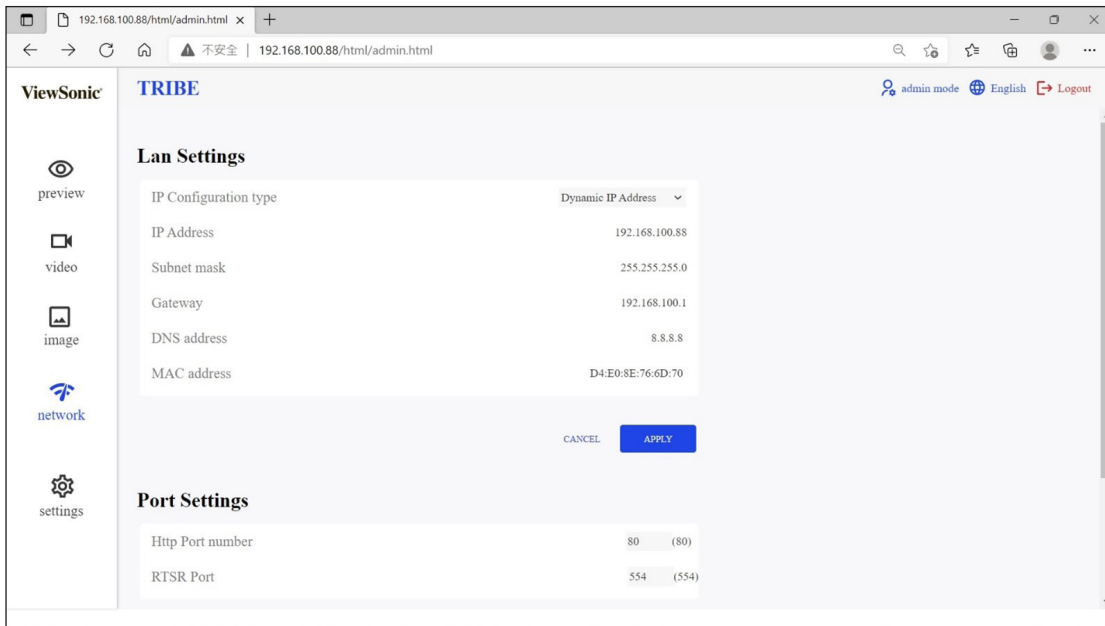
Adjust these values to increase/decrease the clarity of detail in the video image.

NOTE: A higher sharpness value increases the noise in the video image.

Apply as default

Click this button to set the Brightness, Saturation, Contrast, and Sharpness back to the default value.

Network Menu



LAN Settings

IP Configuration type

- **Dynamic IP address**

The IP address, subnet mask, and address for the default gateway are obtained automatically from a DHCP server.

NOTE:

- An activated DHCP server must be present in the network.
- If a DHCP server is not enabled or does not exist in the network, then manually setting the network parameter is required (or just use the default setting).

- **Fixed IP address**

Manually set the IP address, subnet mask, default gateway, and DNS server.

IP address

Manually insert the IP address, but make sure that IP address is not occupied by another device.

Subnet mask

Manually insert the subnet mask.

Gateway

Manually insert the gateway address (or known Router IP address).

DNS address

Manually insert the DNS server's IP address.

MAC address

Display of the MAC address

Port Settings

Http Port number

The standard port for the HTTP protocol is 80. As an alternative, this port can be assigned a value between the number of 1025 ~ 65535. If several IP cameras are connected in the same sub network, then assign a different and unique number HTTP port for each camera.

RTSP Port

The standard port for the RTSP transmission is 554. As an alternative, this port can be assigned a value between the number of 1025 ~ 65535. If several IP cameras are connected in the same sub network, then assign a different and unique number RTSP port for each camera.

RTSP Settings

RTSP auth

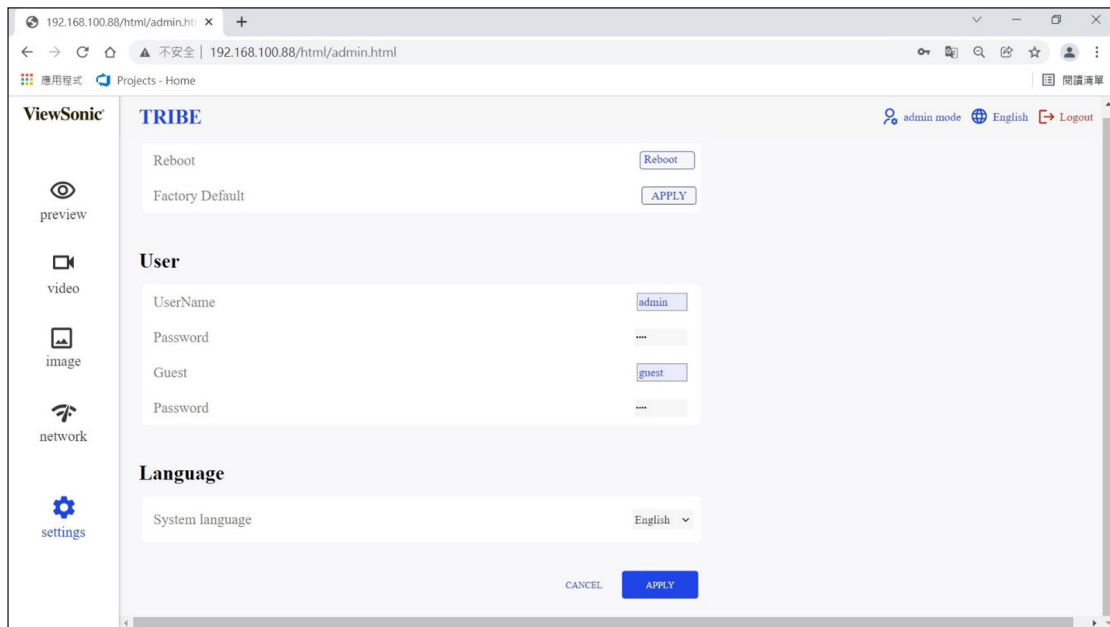
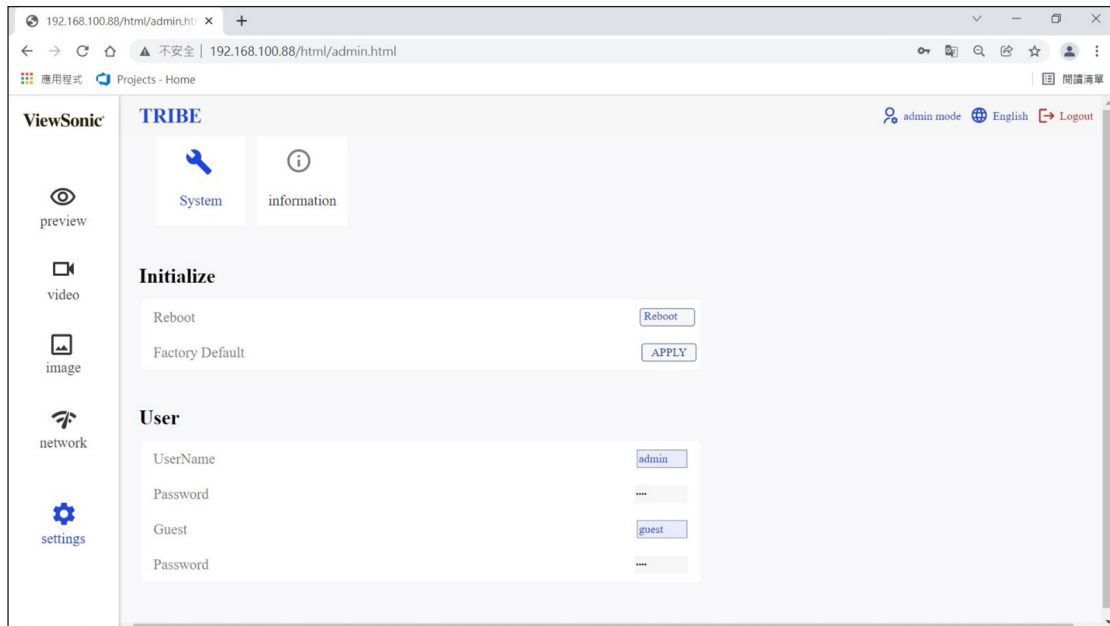
- On: enables authentication.

NOTE: Username and password are required for transmitting video data via RTSP.

- Off: disables authentication.

NOTE: When changing the above network settings, don't forget to click the **Apply** button to use the new setting(s), or click the **Cancel** button to abort the new setting(s) and use the current setting(s).

Settings Menu



Initialize

Reboot

Click the **Reboot** button to restart the camera.

Factory Default

Click the **Apply** button to set all settings back to default.

User

There are two accounts built into the camera system:

- Administrator - The default username is **admin**, password is **test**. This account can access all functions on the web page.
- Guest – The default username is **guest**, password is **test**. This account only can access the basic functions on the web page.

NOTE:

- The username and password can be changed in the **SETTINGS** menu.
- If you forget the new username or password, the only recovery method is to press the **Reset** button on the rear of the camera to reset the camera to default and use the original admin or guest credentials to log in again.

Language

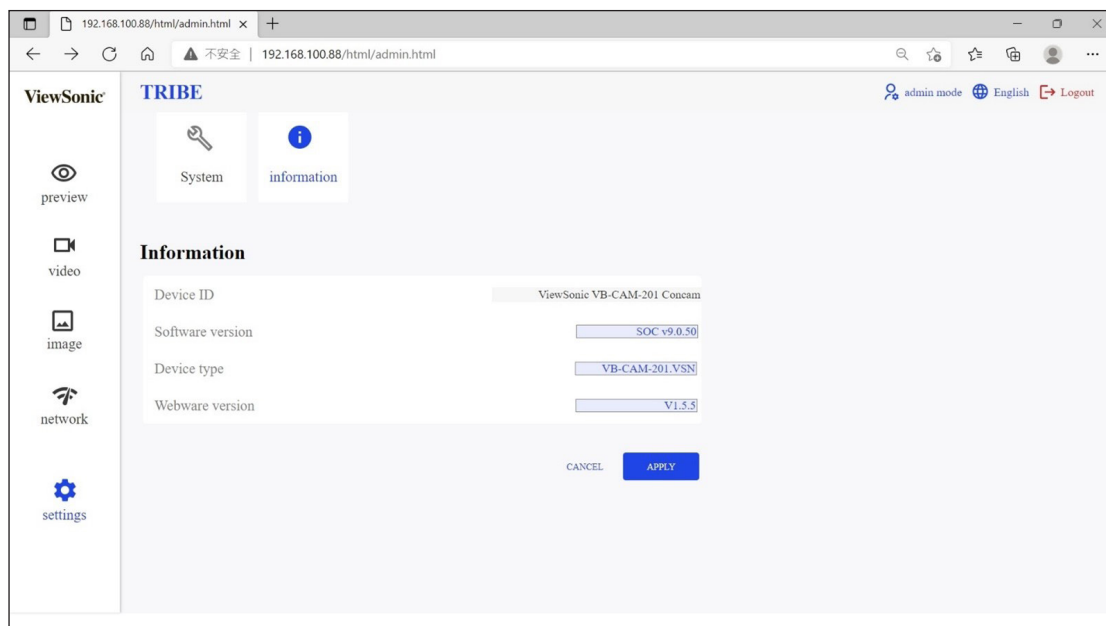
System Language

There are two selectable languages:

- English
- Simplified Chinese

NOTE: When changing the above network settings, don't forget to click the **Apply** button to use the new setting(s), or click the **Cancel** button to abort the new setting(s) and use the current setting(s).

Information Page



This page shows the below information:

- Device ID
- Software version
- Device type
- Webware version

Appendix

Specifications

Camera

Item	Specifications
Video System	4K@30fps, 1080P@30fps, 720P@30fps
Sensor	Sony, 1/2.5 inch, CMOS, 8.51M pixel
Lens	121° (DFOV), 110° (HFOV), 5x Digital Zoom, Pan/Tilt ± 15°
PTZ	MPT + EPTZ
Digital Noise Reduction	2D & 3D Digital Noise Reduction
Video S/N	≥ 55dB
Backlight Compensation	Support

Audio

Item	Specifications
Full Frequency Speaker	96 dB SPL in the case of 0.5 meters
Microphone Array	Beamforming microphone, pick up distance up to 6 meters

USB Features

Item	Specifications
Connection Type	USB 3.0, downward compatible with USB 2.0
Video Compression	YUY2 / MJPG / H.264
USB Audio	32K sampling rate, support UAC 2.0
USB Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

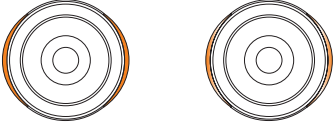
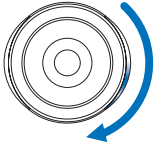
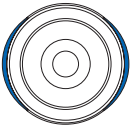
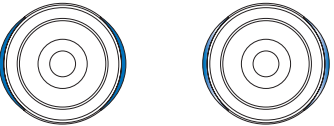
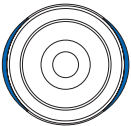
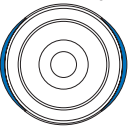
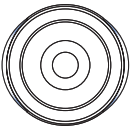

Input/Output Interface



Item	Specifications
HD Output	1 x HDMI (v. 2.0) (Video output only)
USB Interface	1 x USB 3.0 (Type-C), 1 x USB 2.0 (Type-A - for external microphone connection)
Network Interface	1 x RJ45: 10M/100M adaptive Ethernet
Wireless	Bluetooth 5.0
Power Jack	DC 12V, 1.5A (Max)

General

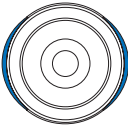
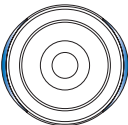
Item	Specifications
Control Method	2.4G Remote Control
Installation Method	Desktop, Wall, TV and other display devices.
Operating Temperature	0° C ~ 40° C (32° F~104° F)
Storage Temperature	-40° C ~ 60° C (-40°F~140° F)
Dimensions (W x H x D)	601 x 116 x 142 mm (bracket included) (23.67" x 4.57" x 6")
Net Weight	2.2 kg (4.86 lbs)

LED Indicators

Light	Description
<p>Amber (breathing)</p> 	<p>Firmware upgrade</p>
<p>Blue (chasing)</p> 	<p>Waiting for Remote Control pairing</p>
<p>Blue (flashing)</p> 	<p>Remote Control pairing finished</p>
<p>Blue (breathing)</p> 	<p>Bluetooth waiting for pairing</p>
<p>Blue (flashing)</p> 	<p>Bluetooth pairing finished</p>
<p>Blue (steady)</p> 	<p>Bluetooth connecting</p>
<p>White (steady)</p> 	<p>Steaming is active</p>
<p>Purple (steady)</p> 	<p>Streaming is not active/closing</p>
<p>Quick flash</p>	<p>Button on Remote Control clicked</p>

Light	Description
Solid Red (steady) 	Microphone muted
Solid Red (steady) 	3A function prohibited

LED Indicators - Host 1 and Host 2 Mode

Light	Description
Blue 	Host 1 mode
Blue 	Host 2 mode

Troubleshooting

Problem or Issue	Possible Solutions
No power	<ul style="list-style-type: none">• Make sure you have turned on the device by pressing the Power button on the remote control.• Make sure the power cord is properly and securely connected to the device and power outlet.• Plug another electrical device into the power outlet to verify that the outlet is supplying power.
The video image displayed by the camera is shaking	<ul style="list-style-type: none">• Ensure the camera is securely installed and stable.• Check for any nearby equipment that may be giving off vibrations.

Maintenance

General Precautions

- Make sure the camera is turned off and the power cable is unplugged from the power outlet if it will not be used for an extended period of time.
- Avoid lens should avoid bright objects (e.g., sunlight), and unstable light conditions.
- Do not use the camera around facilities that can transmit high-power radio waves (e.g., television station).

Cleaning the Camera Lens

- Wipe the camera lens with a clean, soft, lint-free cloth. This removes dust and other particles.

Cleaning the Case

- Use a soft, dry cloth to clean.

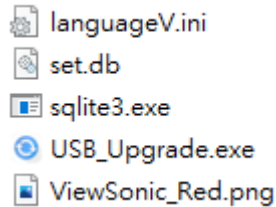
Disclaimer

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

Firmware Update

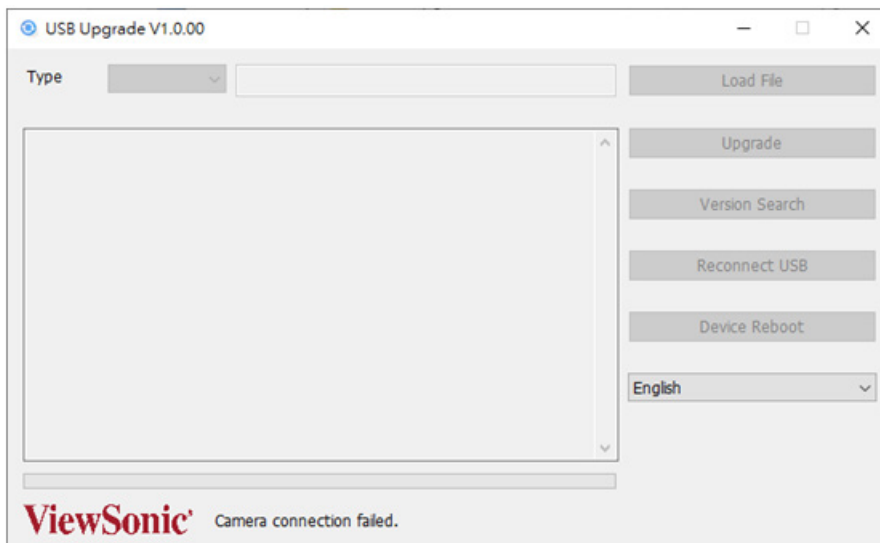
Visit the ViewSonic website or VB-CAM-201 web page to get latest firmware and upgrade VB-CAM-201.

1. Download the firmware upgrade tool (zip file) and the latest firmware version (pkg file).
2. Extract the upgrade tool file and open **USB_Upgrade.exe**.

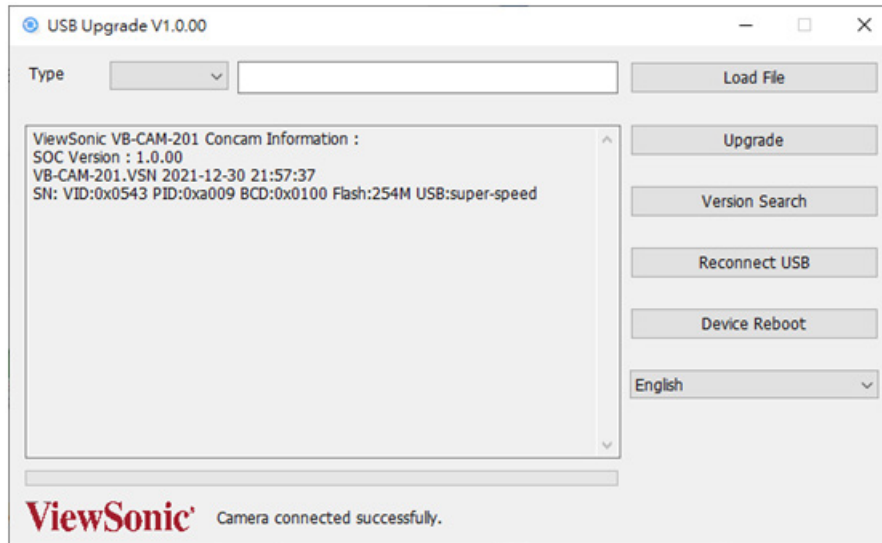


3. Connect the VB-CAM-201 to your computer via USB cable. If the VB-CAM-201 is undetected, the tool will show “Camera connection failed” and you will need to check the connection status on your computer.

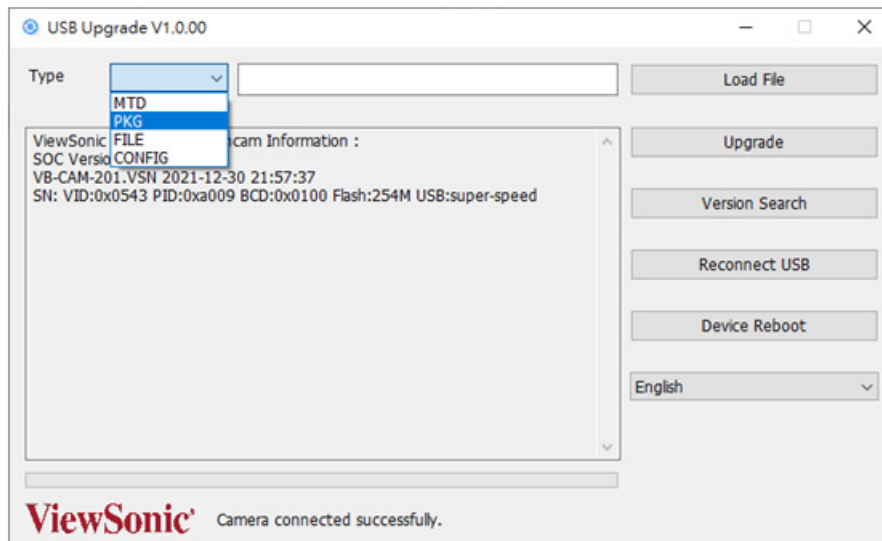
NOTE: Connect your USB cable to the USB 3.0 Type C port. The USB 2.0 Type A port is only designed for external microphone connection.



4. Once the connection is successful, the tool will show the message “Camera connected successfully”.

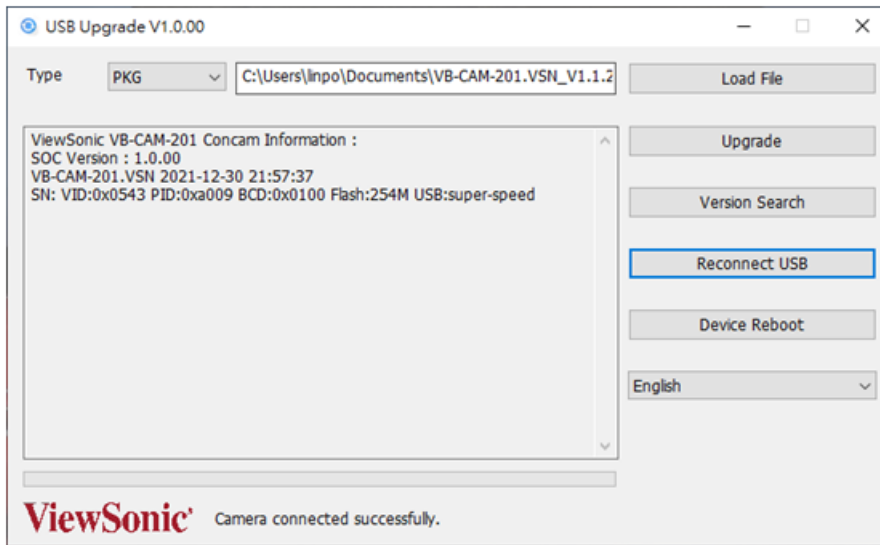


5. Choose **PKG** in **Type** before loading the firmware file.



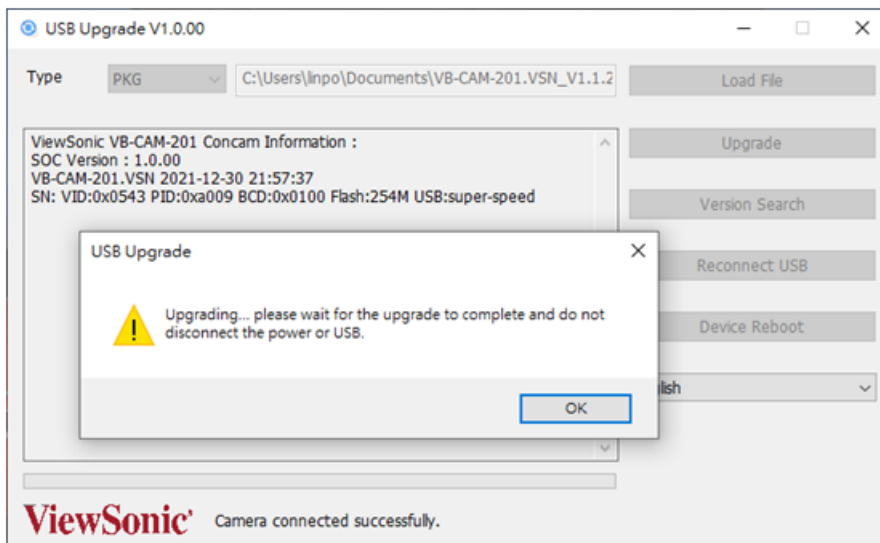
6. Click on the “Load File” button to load the latest firmware file you downloaded from the ViewSonic website.

NOTE: Do not rename the file name before the upgrade process. This may cause the upgrade to fail.

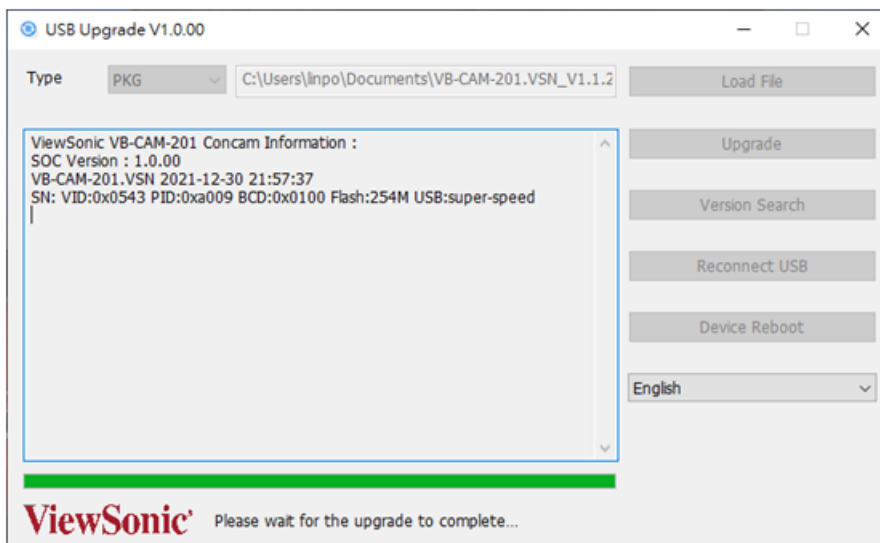
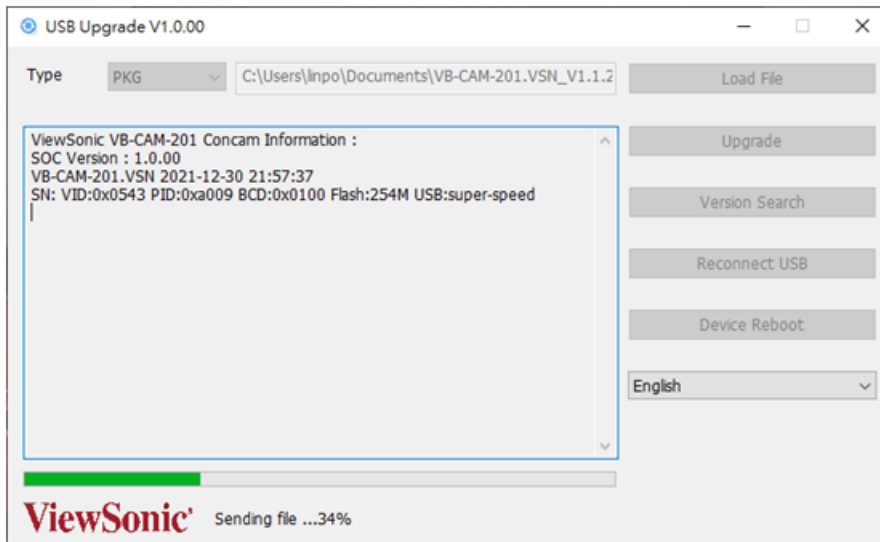


7. Click on the “Upgrade” button, then click on “OK”.

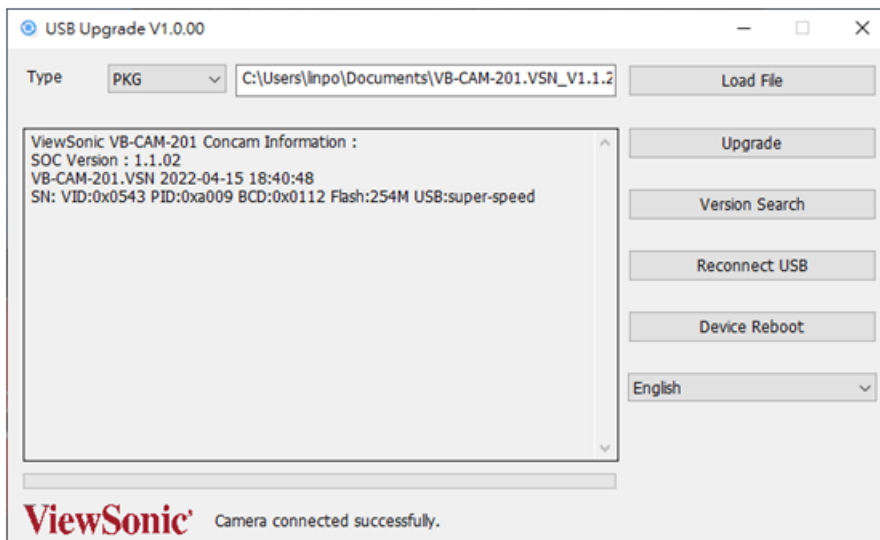
NOTE: Do not disconnect the Power or USB cable.



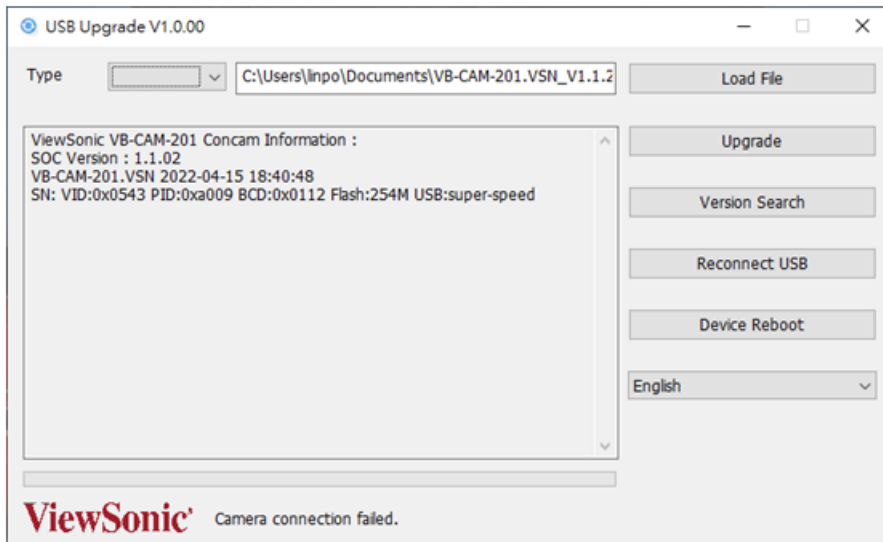
8. Wait for the upgrade to finish.



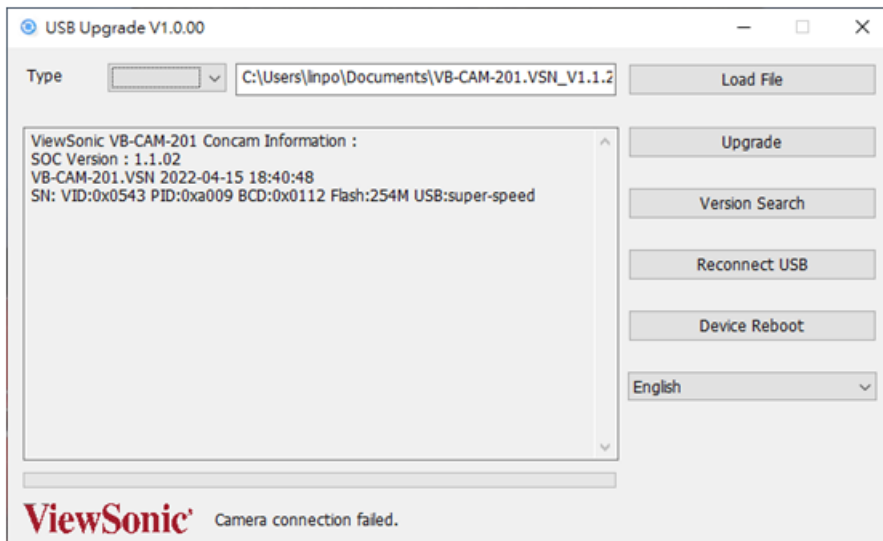
9. Once the update is finished, the SOC Version will show your latest firmware version.



10. If the tool doesn't show your SOC version, you may click on "Version Search".



11. If the tool cannot detect your camera, click on "Reconnect USB" or reconnect your USB cable again.



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. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body.

Validity of using the module certification:

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

Custom design antennas may be used, however the OEM installer must following the FCC 15.21 requirements and verify if new FCC approval will be necessary.

IC Warning Statement

This device complies with Industry Canada license- exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis/Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

IC Radiation Exposure Statement

This equipment complied with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. The device for the band 5150-5825 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps. Les dispositifs fonctionnant dans la bande 5150-5825 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

CE Conformity for European Countries



The device complies with the EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and 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:

- Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
 - » Short length (500 mm): maximum 3.5 mg per lamp.
 - » Medium length (> 500 mm and 1,500 mm): maximum 5 mg per lamp.
 - » Long length (> 1,500 mm): maximum 13 mg per lamp.
- Lead in glass of cathode ray tubes.
- Lead in glass of fluorescent tubes not exceeding 0.2% by weight.
- Lead as an alloying element in aluminum containing up to 0.4% lead by weight.
- 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.

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

ViewSonic® respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit the ViewSonic® website to learn more.

USA & Canada:

<https://www.viewsonic.com/us/company/green/go-green-with-viewsonic/#recycle-program>

Europe:

<https://www.viewsoniceurope.com/eu/support/call-desk/>

Taiwan:

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

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VESA is a registered trademark of the Video Electronics Standards Association. DPMS, DisplayPort, and DDC are trademarks of VESA.

ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency (EPA).

As an ENERGY STAR® partner, ViewSonic® Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Disclaimer: ViewSonic® Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

In the interest of continuing product improvement, ViewSonic® Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

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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/
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/
United Kingdom	www.viewsonic.com/uk/		

Limited Warranty

ViewSonic® Display

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, and as your sole remedy, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The repair or replacement unit or parts or components will be covered by the balance of the time remaining on the customer's original limited warranty and the warranty period will not be extended. ViewSonic® provides no warranty for any third-party software whether included with the product or installed by the customer, installation of any unauthorized hardware parts or components (e.g. Projector Lamps). (Please refer to: "What the warranty excludes and does not cover" section).

How long the warranty is effective:

ViewSonic® displays are warranted for between 1 and 3 years, depending on your country of purchase, for all parts including the light source and for all labor from the date of the first consumer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified, or removed.
- Damage, deterioration, or malfunction resulting from:
 - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - » Repair or attempted repair by anyone not authorized by ViewSonic®
 - » Damage to or loss of any programs, data, or removable storage media.
 - » Normal wear and tear.
 - » Removal or installation of the product.

- Software or data loss occurring during repair or replacement.
- Any damage of the product due to shipment.
- Causes external to the product, such as electric power fluctuations or failure.
- Use of supplies or parts not meeting ViewSonic’s specifications.
- Failure of owner to perform periodic product maintenance as stated in the User Guide.
- Any other cause which does not relate to a product defect.
- Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as image burn-in).
- Software - Any third-party software included with the product or installed by the customer.
- Hardware/Accessories/Parts/Components – Installation of any unauthorized hardware, accessories, consumable parts or components (e.g. Projector Lamps).
- Damage to, or abuse of, the coating on the surface of the display through inappropriate cleaning as described in the product User Guide.
- Removal, installation, and set-up service charges, including wall-mounting of the product.

How to get service:

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

Limitation of implied warranties:

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

Exclusion of damages:

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

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Effect of state law:

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

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

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

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

For users in Europe and Russia, full details of warranty provided can be found at: <http://www.viewsonic.com/eu/> under "Support/Warranty Information".

Mexico Limited Warranty

ViewSonic® Display

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components & accessories.

How long the warranty is effective:

ViewSonic® LCD displays are warranted for between 1 and 3 years, depending on your country of purchase, for all parts including the light source and for all labour from the date of the first consumer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified or removed.
- Damage, deterioration, or malfunction resulting from:
 - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, unauthorized attempted repair, or failure to follow instructions supplied with the product.
 - » Causes external to the product, such as electrical power fluctuations or failure.
 - » Use of supplies or parts not meeting ViewSonic®'s specifications.
 - » Normal wear and tear.
 - » Any other cause which does not relate to a product defect.
- Any product exhibiting a condition commonly known as “image burn-in” which results when a static image is displayed on the product for an extended period of time.
- Removal, installation, insurance, and set-up service charges.

How to get service:

For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the attached “Customer Service” page). You will need to provide your product’s serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

For Your Records

Product Name: _____ Model Number: _____
Document Number: _____ Serial Number: _____
Purchase Date: _____ Extended Warranty Purchase? _____(Y/N)
If so, what date does warranty expire? _____

- To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, in the original container packaging, to an authorized ViewSonic® service center.
- Round trip transportation costs for in-warranty products will be paid by ViewSonic®.

Limitation of implied warranties:

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

Exclusion of damages:

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

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juarez 284 local 2 Col. Bugambilias C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	Villahermosa: Compumantenimientos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: compumantenimientos@prodigy.net.mx
Puebla, Pue. (Matriz): RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	Veracruz, Ver.: CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
Chihuahua: Soluciones Globales en Computación C. Magisterio # 3321 Col. Magisterial Chihuahua, Chih. Tel: 4136954 E-Mail: Cefeo@soluglobales.com	Cuernavaca: Compusupport de Cuernavaca SA de CV Francisco Leyva # 178 Col. Miguel Hidalgo C.P. 62040, Cuernavaca Morelos Tel: 01 777 3180579 / 01 777 3124014 E-Mail: aquevedo@compusupportcva.com
Distrito Federal: QPLUS, S.A. de C.V. Av. Coyoacán 931 Col. Del Valle 03100, México, D.F. Tel: 01(52)55-50-00-27-35 E-Mail : gacosta@qplus.com.mx	Guadalajara, Jal.: SERVICRECE, S.A. de C.V. Av. Niños Héroes # 2281 Col. Arcos Sur, Sector Juárez 44170, Guadalajara, Jalisco Tel: 01(52)33-36-15-15-43 E-Mail: mmiranda@servicrece.com
Guerrero Acapulco: GS Computación (Grupo Sesicomp) Progreso #6-A, Colo Centro 39300 Acapulco, Guerrero Tel: 744-48-32627	Monterrey: Global Product Services Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx
MERIDA: ELECTROSER Av Reforma No. 403Gx39 y 41 Mérida, Yucatán, México CP97000 Tel: (52) 999-925-1916 E-Mail: rrrb@sureste.com	Oaxaca, Oax.: CENTRO DE DISTRIBUCION Y SERVICIO, S.A. de C.V. Murguía # 708 P.A., Col. Centro, 68000, Oaxaca Tel: 01(52)95-15-15-22-22 Fax: 01(52)95-15-13-67-00 E-Mail: gpotai2001@hotmail.com
Tijuana: STD Av Ferrocarril Sonora #3780 L-C Col 20 de Noviembr Tijuana, Mexico	FOR USA SUPPORT: ViewSonic® Corporation 381 Brea Canyon Road, Walnut, CA. 91789 USA Tel: 800-688-6688 E-Mail: http://www.viewsonic.com



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