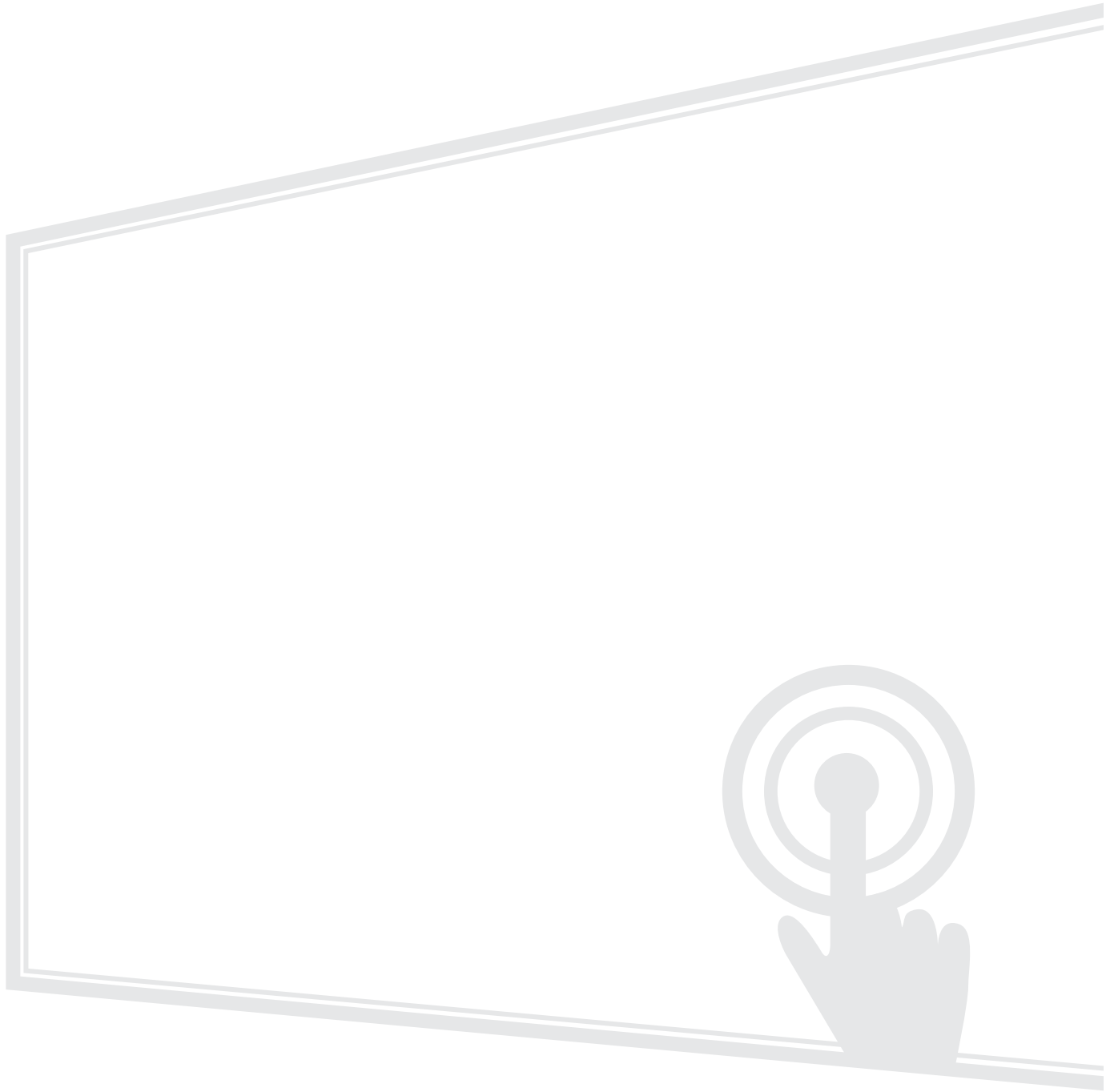


vCast Pro

Connect & Collaborate
User Guide



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

vCast Pro software is designed for wireless presentations and collaboration.

Working with vCast Pro software and the vCastSender application allows you to stream live recordings, annotate, and share your screen, photos, videos, annotations, documents, and camera directly onto ViewSonic® ViewBoard® Interactive Flat Panels and other mobile devices. In addition, both advanced display group and moderator management functions are included.

Presenters can control displayed content from a phone, tablet, or laptop while Android and iOS device users are able to use vCastSender's specialized annotation toolbar and control the ViewBoard® remotely. vCastSender's specialized moderation feature allows a moderator to take control of meetings or classrooms as well.

vCast Pro Features

- Annotation and Collaboration

When viewing a presentation, users can annotate on the presenter's display via Android/iOS pen tools.

- Display Group

One to many casting feature that can reach up to six (6) displays and allow continuous group screen sync up.

- Moderator Mode

The moderator has full control of a presentation session and can assign other participants to be the presenter or viewer. Additionally, the moderator can also broadcast a presentation cast to other connected devices and make annotations.

- Multiple Screen Sharing

Multiple users can connect and display concurrently to the ViewBoard or display.

- Remote View

Android/iOS users can view the screen of the current presenter on a ViewBoard or display.

- Touchback Control

The current presenter can use touch control on the ViewBoard's screen to remotely control casting devices.

NOTE: The touchback control function is limited when using Chrome.

- Wireless Display

Users can connect to the same network or cross subnet environments and display their personal screen to a ViewBoard or display.

Before Launching vCast Pro

This section covers information you need to know about the vCast Pro software requirements and installing it on a Windows PC device.

Requirements

- Suggested Windows PC hardware specifications:
 - » Intel i3 series CPU (minimum)
 - » 4 GB RAM
- PC operation system requirements:
 - » Wi-Fi capability – 2.4 GHz/5 GHz

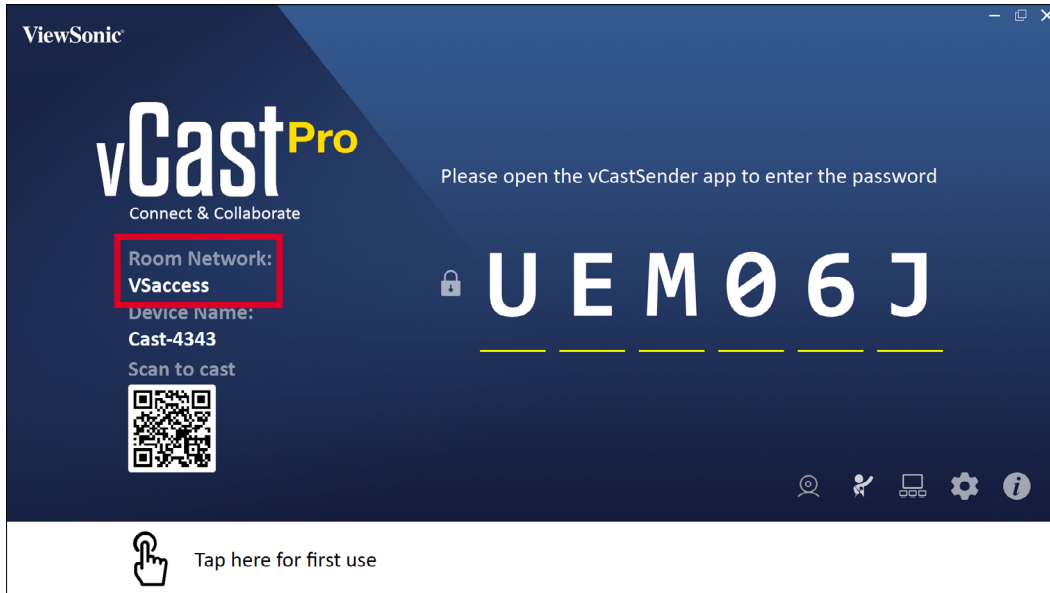
NOTE: A 5 GHz band will provide better wireless screen sharing performance.

- » Microsoft® Windows 7, 8, 8.1, 10, 11

Launching vCast Pro

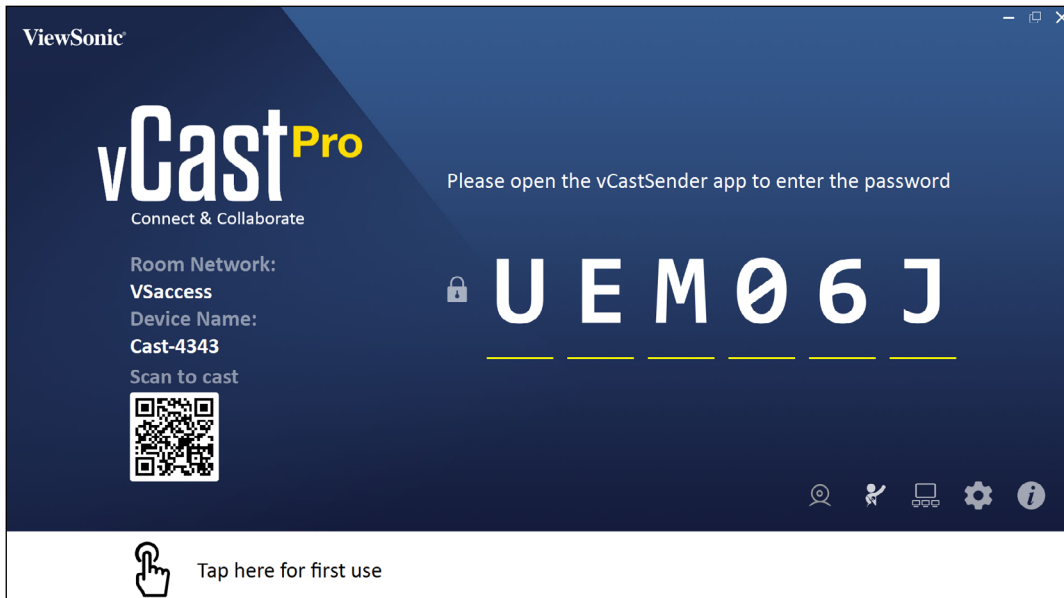
To launch vCast Pro:

1. Select the vCast Pro application on the ViewBoard or display and open it.
2. Ensure the ViewBoard or display is connected to a local network. The network name will be visible under **Room Network**.



NOTE: For best performance, it is recommended to be connected to the local network via LAN by Ethernet cable.

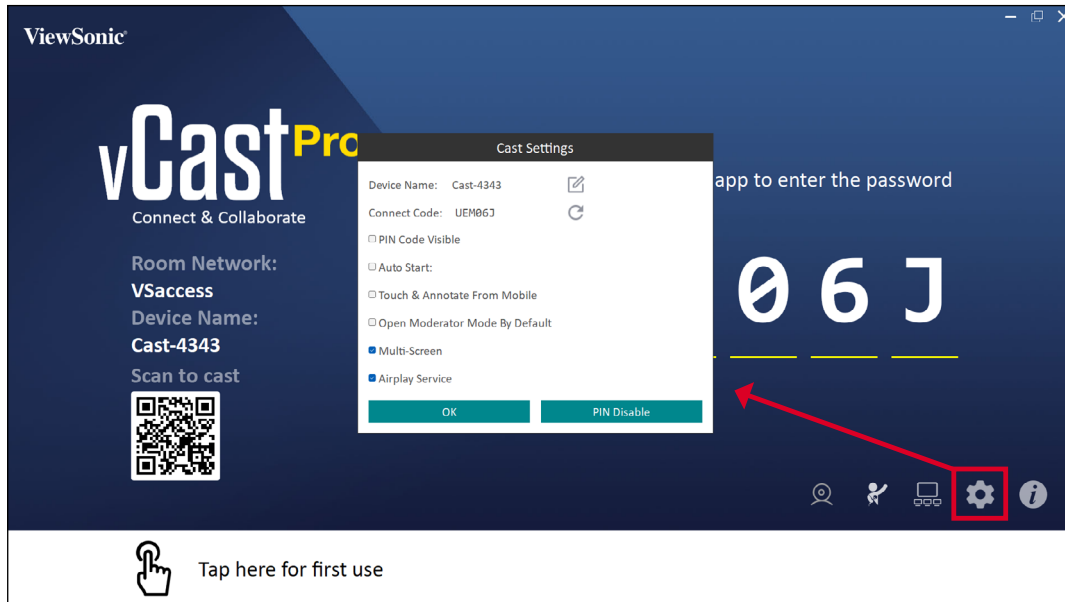
3. Once successfully launched you will see the below screen:



vCast Pro Settings

Cast Settings

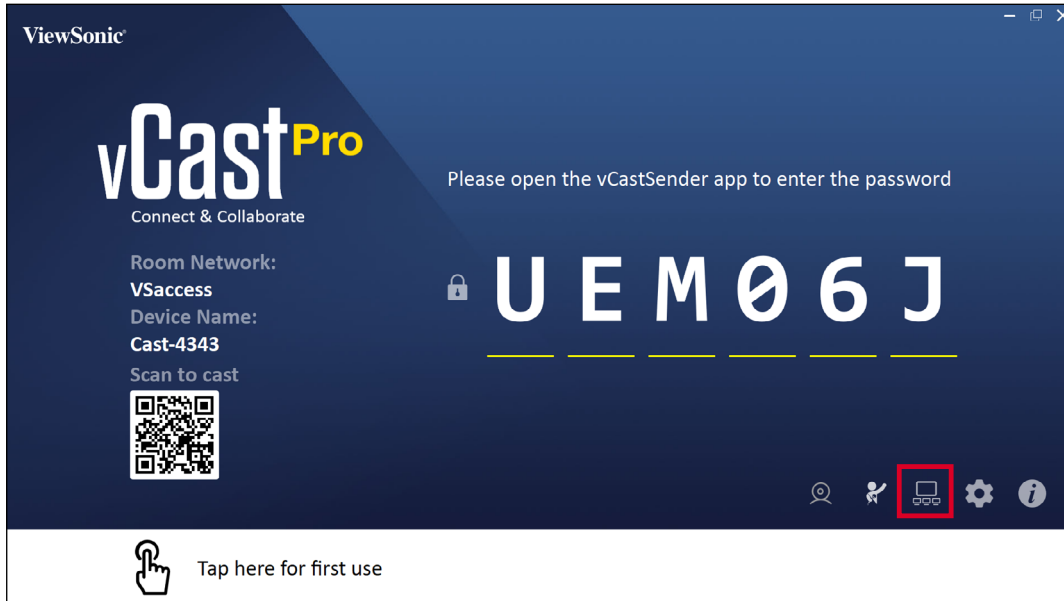
To adjust the Cast Settings, select the Settings icon (⚙️) located in the lower-right corner of the screen.



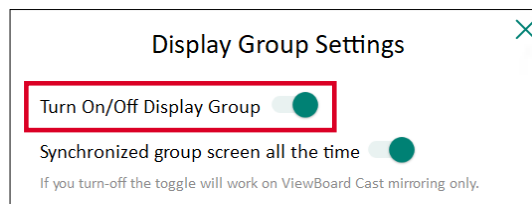
Item	Description
Device Name	Edit and set the Device Name for easier identification.
Connect Code	Select the refresh icon to generate a new code.
PIN Code Visible	Hide or show the vCast Pro connection PIN code on the screen.
Auto Start	When enabled, vCast Pro will launch automatically when you start your Windows PC.
Touch & Annotate from Mobile	Enable/disable the touch and annotate functions for mobile devices.
Open Moderator Mode by Default	When enabled, Moderator Mode will open by default.
Multi-Screen	Multiple users can wirelessly present to vCast Pro simultaneously.
AirPlay Service	When disabled, AirPlay Service will limit Apple iOS/ MacOS devices to only see vCastPro device names for screen mirroring.
PIN Disable	When the PIN code is disabled, users on the same subnet network will be able to connect quicker. NOTE: Remote Viewing will be enabled if the PIN code is disabled.

Display Group settings

To adjust the Display Group Settings, select the Display Group icon (🖥️) located in the lower-right corner of the screen.

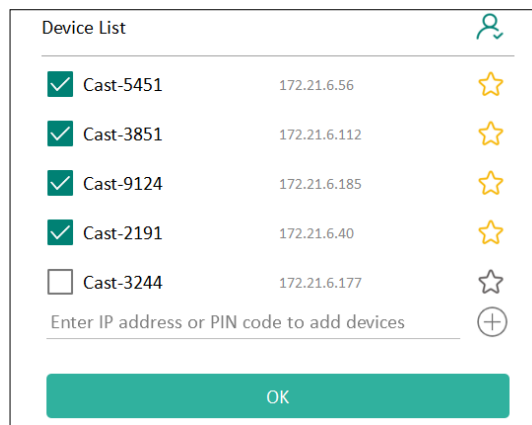


1. Toggle the "Turn On/Off Display Group" ON to enable the Display Group feature.



NOTE: Other preinstalled ViewBoard Cast devices in the same network will be listed.

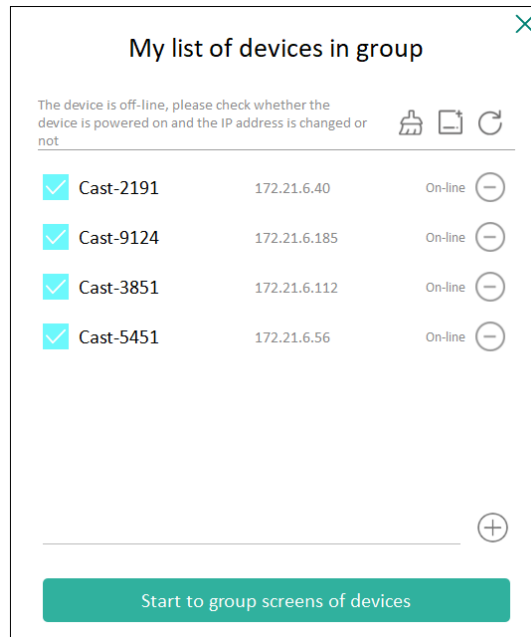
2. Select the devices you want to join the display group and select **OK** to save the settings.



NOTE:

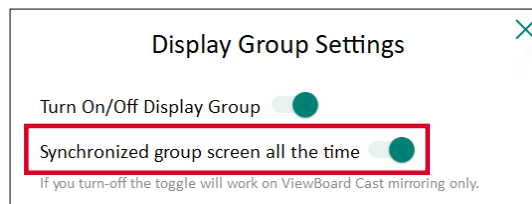
- If the devices you want to group are not listed, you can enter their respective IP address or connecting PIN code.
- The Display Group maximum device limit is six devices.

3. If you frequently connect to the same device, you can select the Star icon (★) next to the device to add it to your frequently connected devices list, "My List of Devices in Group", for easier Display Group setup and management.



Synchronized Group Screen All the Time

When the “Synchronized group screen all the time” function is toggled ON, it will display a synchronized group screen continuously. If it is toggled OFF, it will work on vCast mirroring only.



NOTE: Select the devices to group first, then toggle the "Synchronized group screen all the time" function ON to avoid interruption.

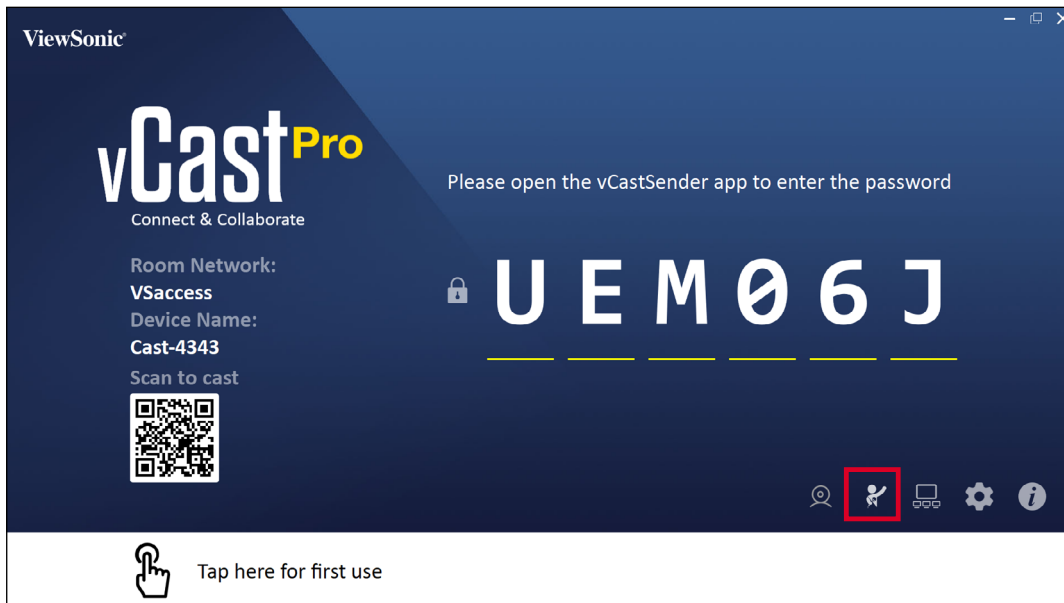
Share a Screen to the Display Group (One to Many Casting)

After confirming the above settings, you can share your screen to the main display, then the grouped client devices will be synced up to your screen.

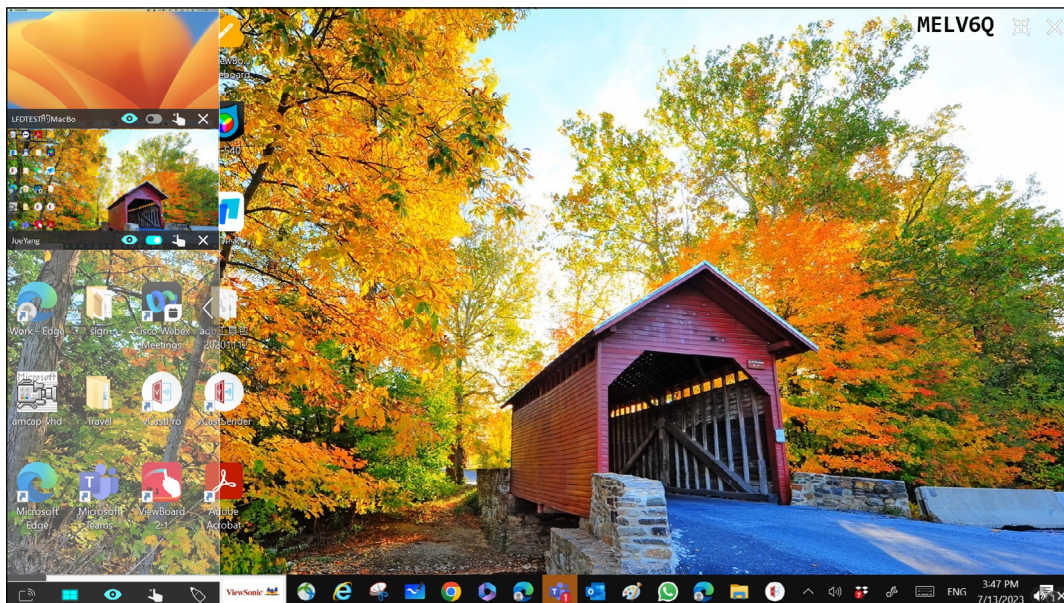


Moderator Mode

Moderator Mode allows the moderator to take control of the devices connected to the ViewBoard or display. To enter Moderator Mode, select the Moderator Mode icon (👤) located in the lower-right corner of the screen.

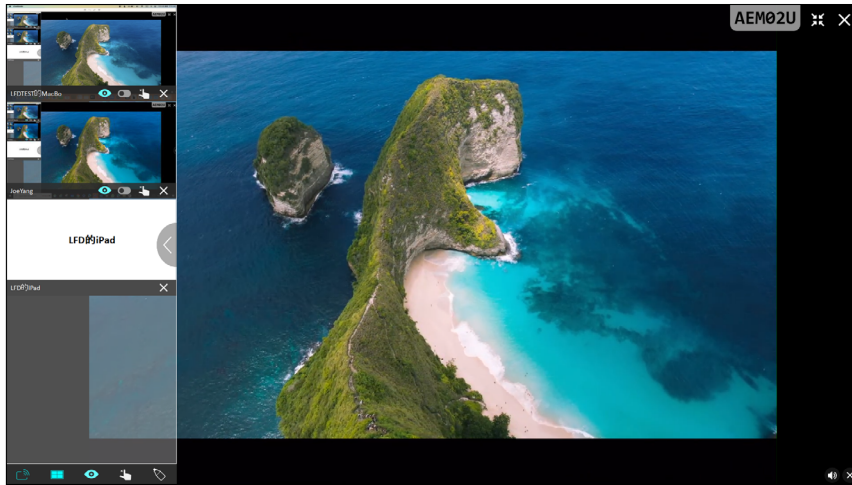


When enabled, the moderator can view a list of all connected screens in the left floating window and can preview each participant's screen and then select any of participant's screen and cast to the ViewBoard's or display's main screen for presentation. The moderator can also control each participant's screen, annotate on the ViewBoard or display, and remove unwanted participants by selecting the close icon (X).



Broadcast

When enabled, the ViewBoard's or display's screen will be broadcasted to all of the participant's connected screens simultaneously. The participants can only view the presentation contents until the moderator disables the Broadcast function.



Multiple Screen Sharing

By default, vCast Pro is set to allow multiple screen sharing, but can also be set to single screen sharing. To do this, the moderator can select the Multiple Screen Sharing icon to switch to single screen sharing.

Preview Screen





By default, vCast Pro is set to let the moderator preview the participant's screen contents prior to sharing to the ViewBoard or display. Selecting the Preview Screen icon, the Moderator can switch to see the participant's name only.

Touch

By default, participants can use touch for collaboration after connecting. The moderator can enable/disable the touch function of a participant by selecting the Touch icon in their window.

Annotate

Selecting the Annotate icon will list more annotation options:

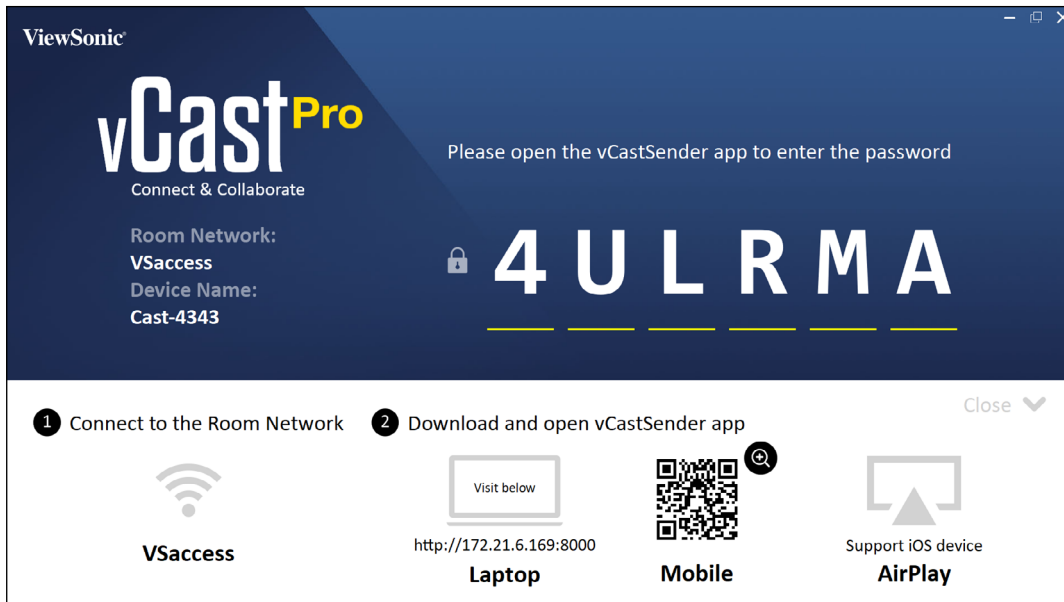
-  Move the Annotate toolbar on the screen.
-  Choose colors for annotations.
-  Clear annotations.
-  Save screen annotations to .png format.

NOTE:

- Moderator Mode is supported on all vCastSender and AirPlay devices, but mobile devices are limited to a "preview" function. Additionally, mobile Android devices cannot cast sound out.
- When you cast your Windows/Mac/Chrome screen to a ViewBoard or display, the selected full screen unit will not be broadcasted back to your device to avoid repetitive screen casting.
- The active presenter can touch each of the participant's screens to remotely control casting devices.
- The number of multi-screen presenters on-screen depends on your Windows CPU processor performance and router specifications.

Casting to vCast Pro from a Client Device

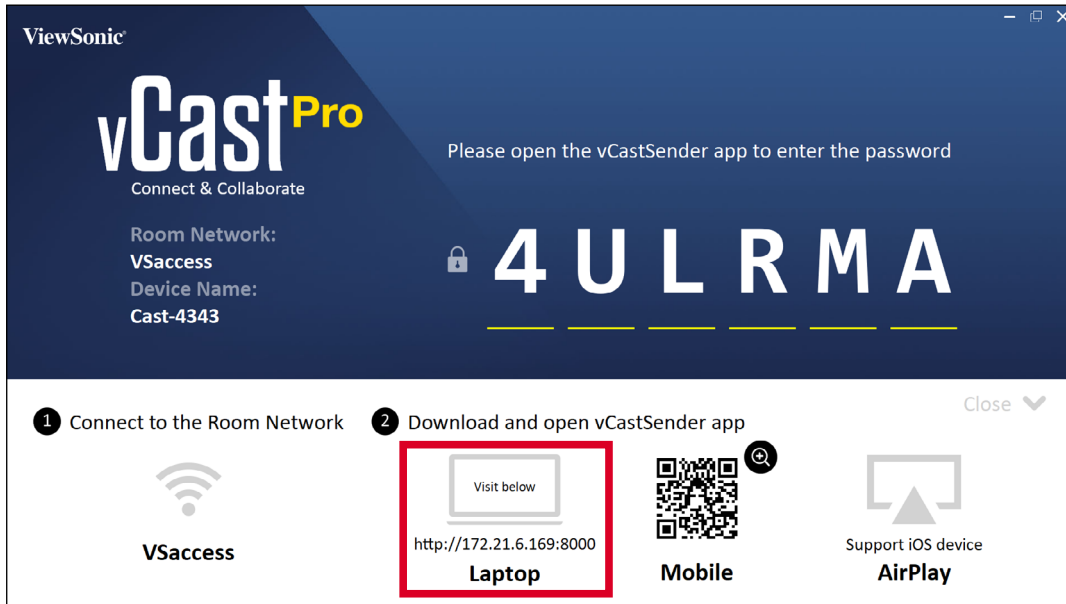
Working with ViewBoard® Cast software (vCast, vCast Pro, and vCastSender), the vCast Pro application will allow the ViewBoard or display to receive laptop screens (Windows/Mac/Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s) that are using the vCastSender application.



NOTE:

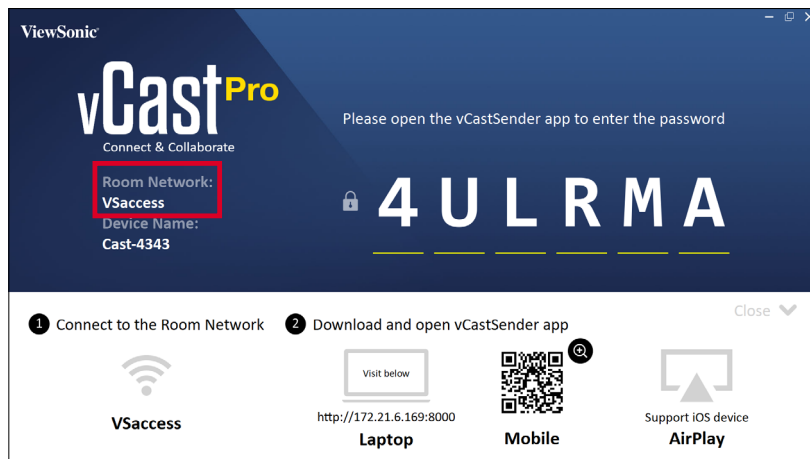
- ViewBoard® Cast software, laptops, and mobile devices can connect to both the same subnet and cross subnet by entering the on-screen PIN code.
- Connected devices will show up under **Device List** on the same subnet connection.
- If the device does not show up under **Device List**, users will need to key-in the on-screen PIN code.
- vCast Pro can setup "PIN disable" for a faster connection on the same subnet. Please note that the Remote Viewing function will be enabled if PIN code input is disabled.

Casting from Windows, MacBook, and Chrome Devices



1. Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard or display.

NOTE: The network name can be found under **Room Network**.

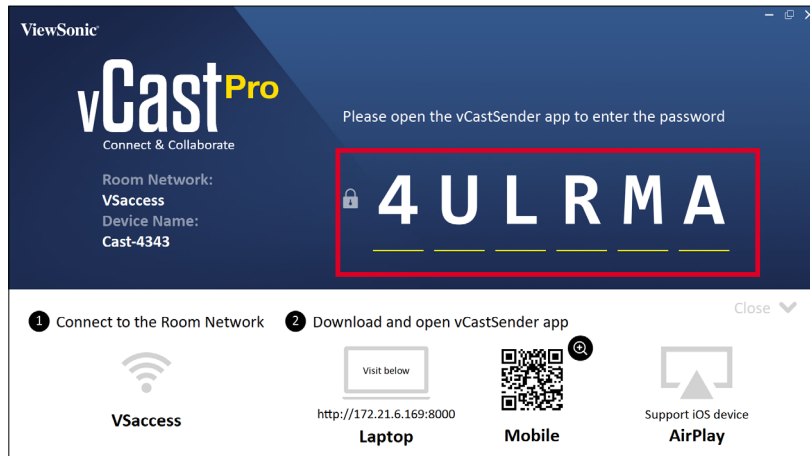


2. On the client device, visit the address that is shown on the ViewBoard or display to download and install the vCastSender application.

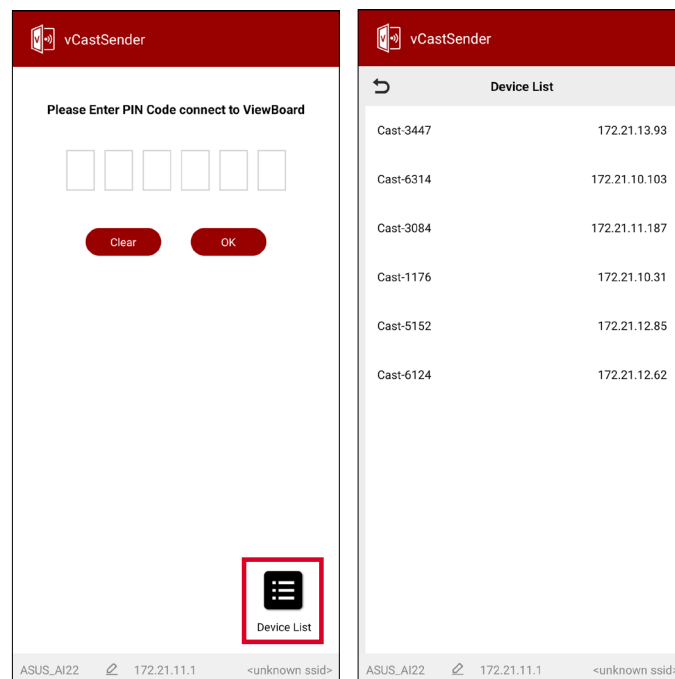
3. After installing, launch the vCastSender application.

4. To connect to the ViewBoard or display, input the PIN code and click **OK**.

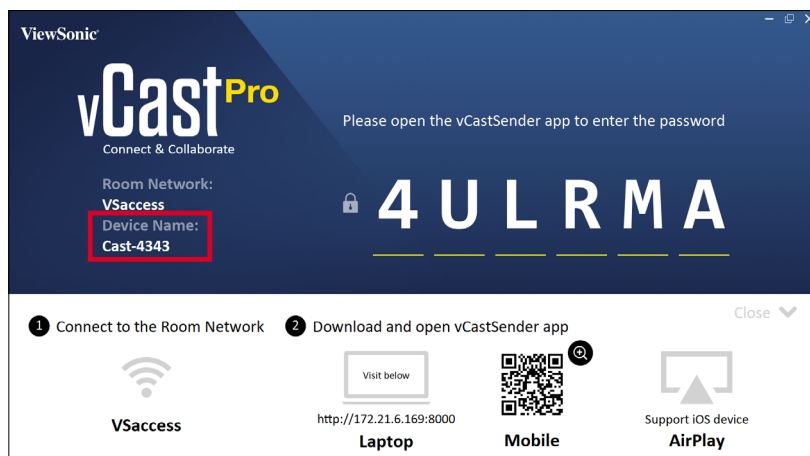
NOTE: The **PIN code** can be found as highlighted below:



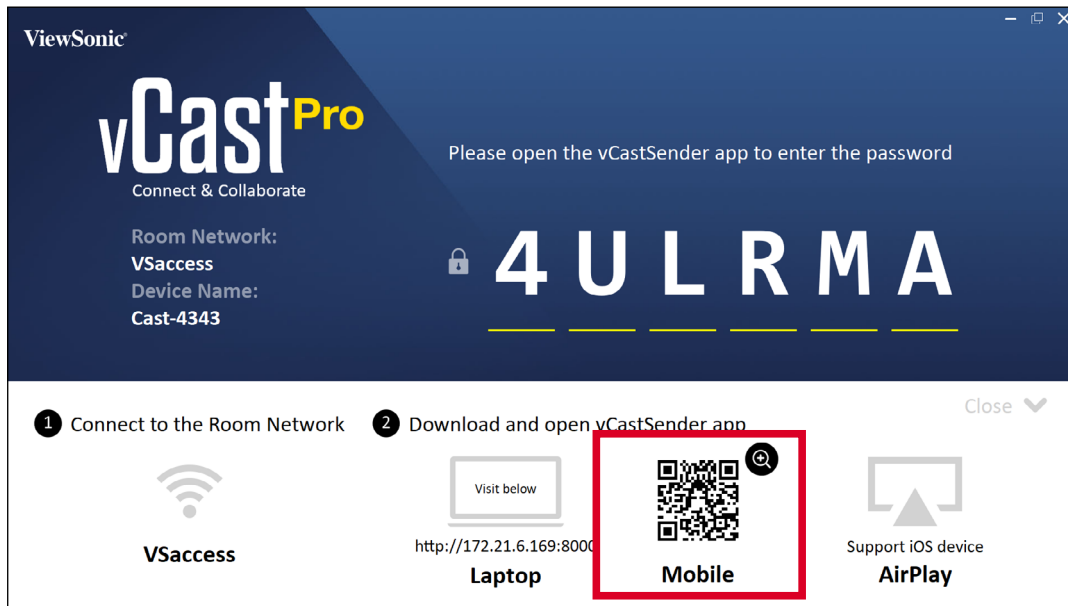
5. Additionally, you can connect to the ViewBoard or display by clicking **Device List** then the **Device Name** listed.



NOTE: The **Device Name** can be found as highlighted below:

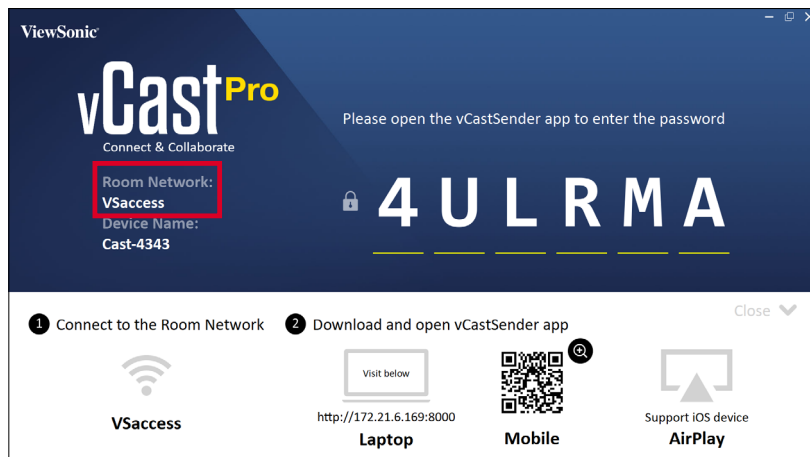


Casting from Android Devices

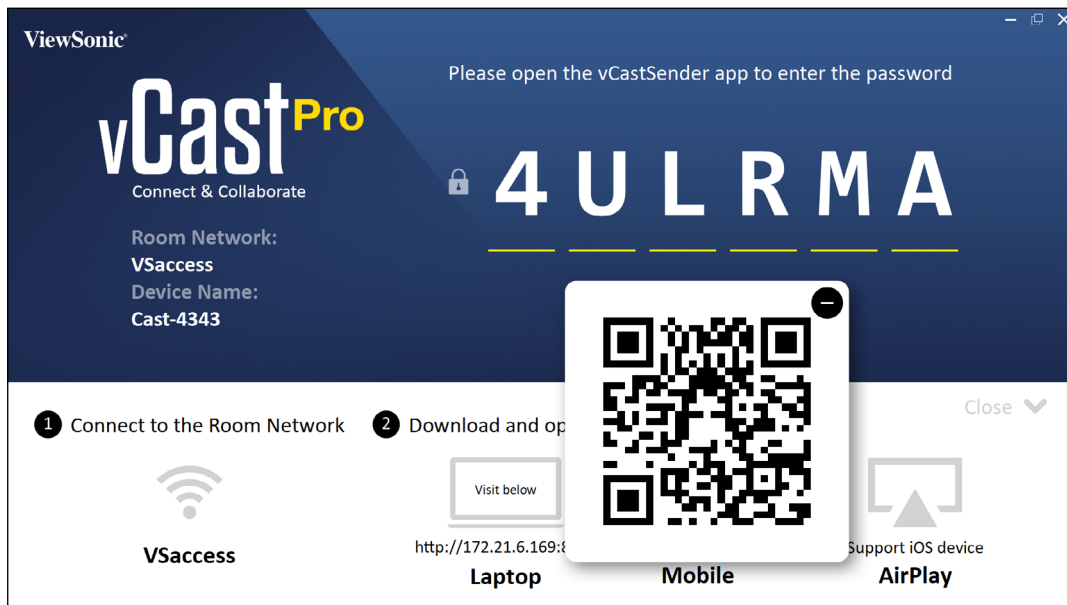


1. Ensure the client device (e.g., Android phone or tablet) is connected to the same network as the ViewBoard or display.

NOTE: The network name can be found under **Room Network**.

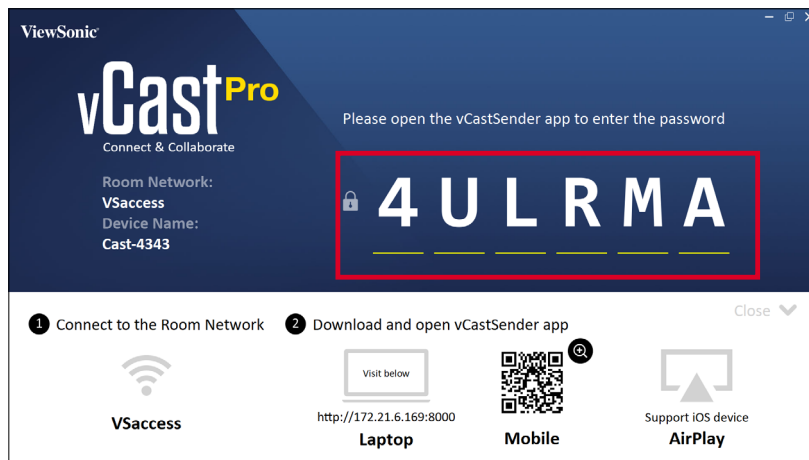


2. On the Android client device, scan the QR code shown on the ViewBoard or display to directly download the vCastSender application, or download the application from the Google Play Store.

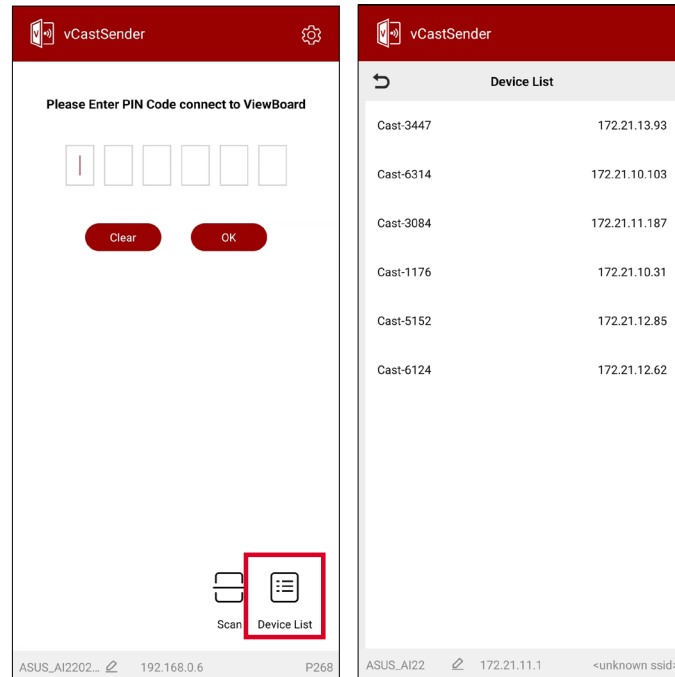


3. After installing, launch the vCastSender application.
4. To connect to the ViewBoard or display, input the PIN code and click **OK**.

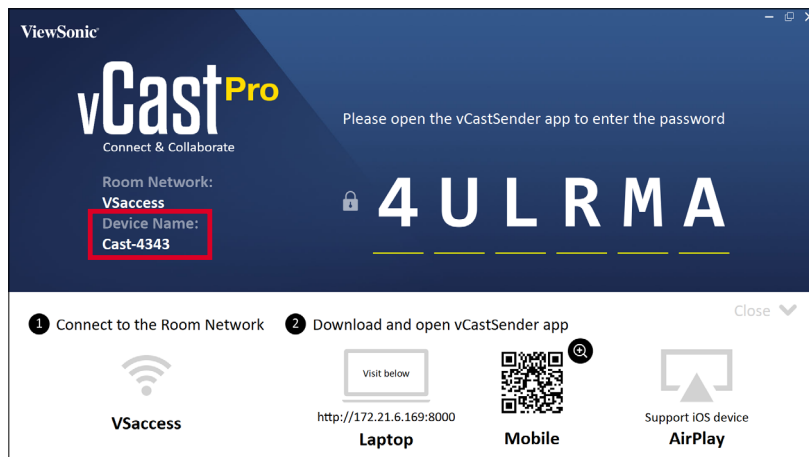
NOTE: The **PIN code** can be found as highlighted below:



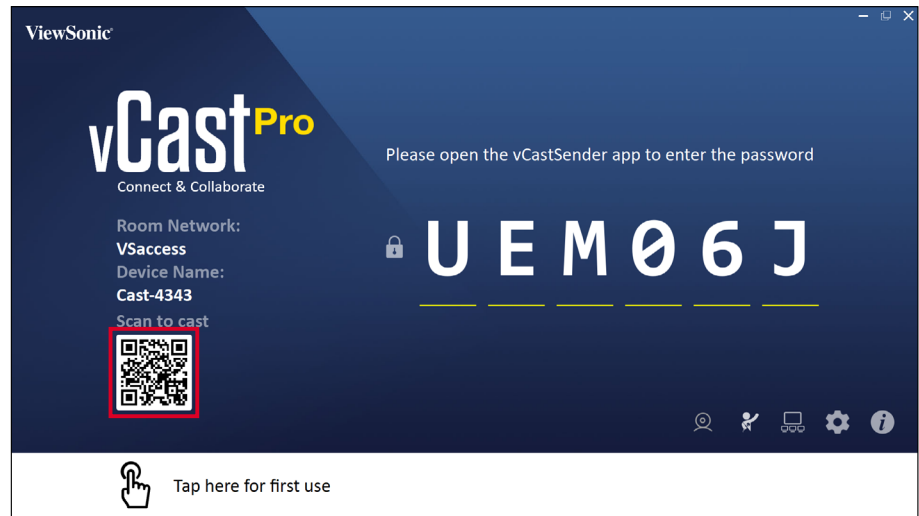
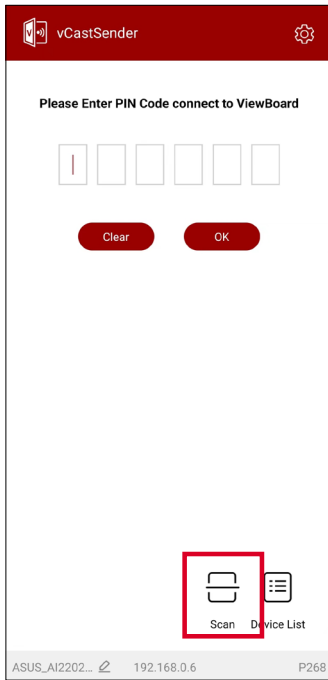
5. You can also connect to the ViewBoard or display by selecting **Device List** then the **Device Name** listed.



NOTE: The **Device Name** can be found as highlighted below:

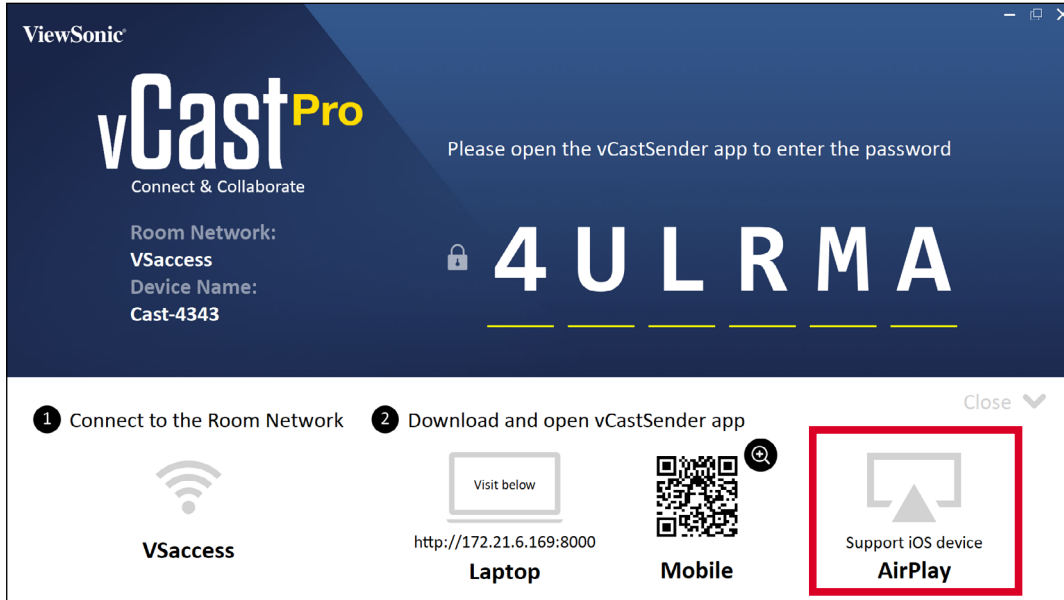


6. Additionally, you can connect to the ViewBoard or display by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.



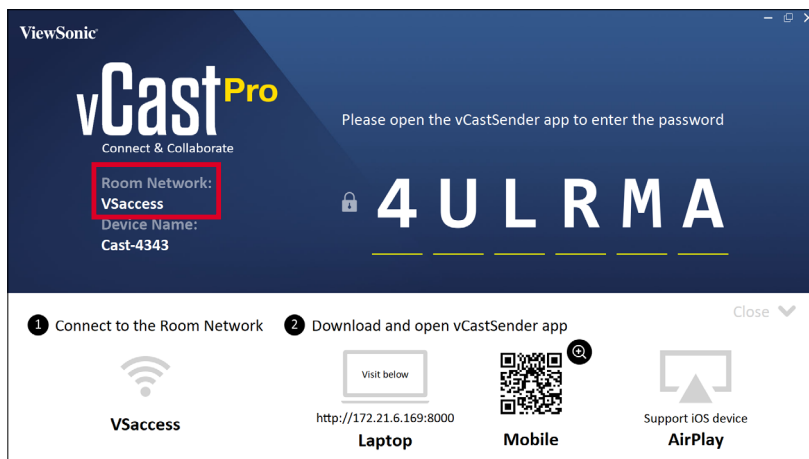
Casting from Apple iOS Devices

Apple AirPlay® is compatible with vCast Pro for screen mirroring and content streaming under the same subnet environment only. An “AirPlay Password” will be generated on-screen for connection when using AirPlay to cast to the ViewBoard or display.



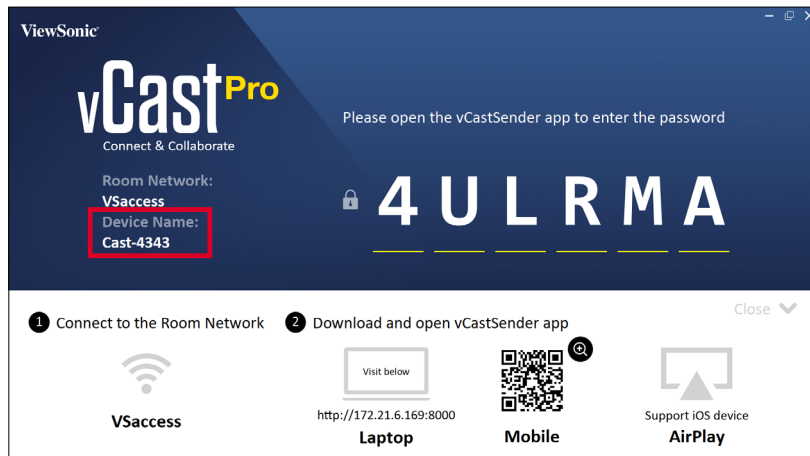
1. Ensure the client device (e.g., iPhone or iPad) is connected to the same network as the ViewBoard or display.

NOTE: The network name can be found under **Room Network**.

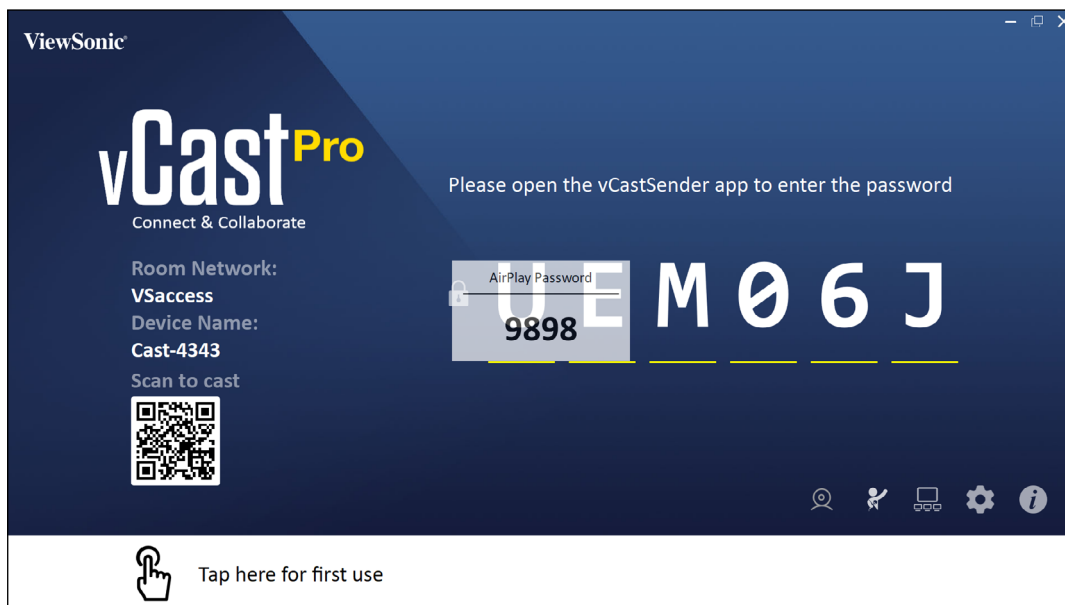


2. On the iOS client device, directly open AirPlay and select the **Device Name** of the ViewBoard or display to connect.

NOTE: The **Device Name** can be found as highlighted below:

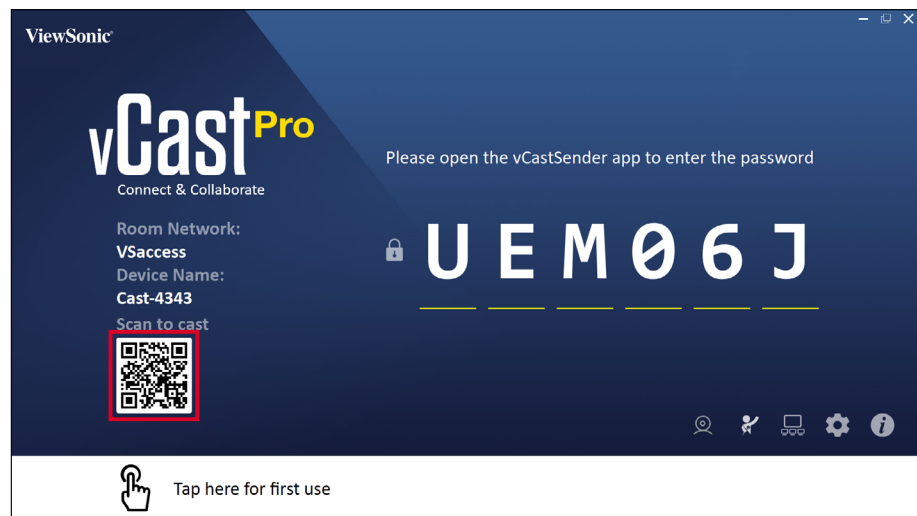
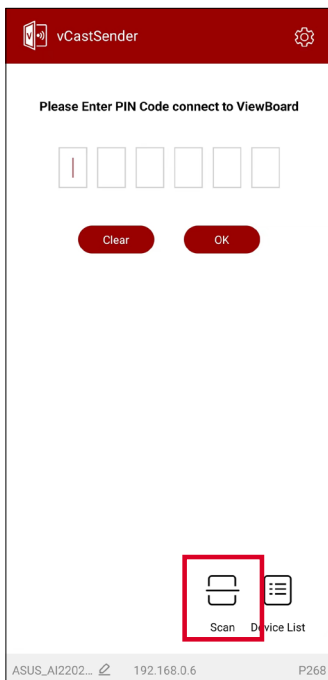


3. Input the generated on-screen **AirPlay Password** on the client device to connect.



NOTE: In a cross subnet environment, please download and connect with the vCastSender iOS application from the Apple App Store.

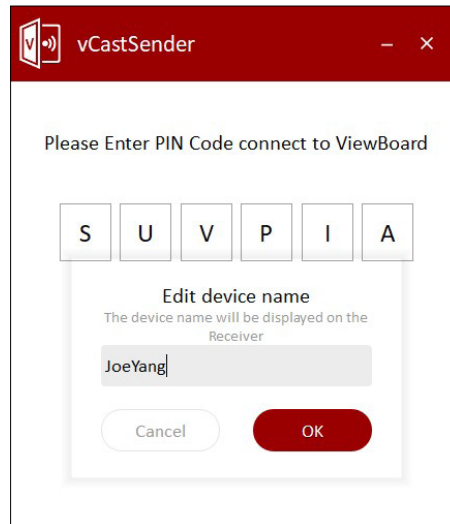
4. You can also connect to the ViewBoard or display by selecting **Scan** in the vCastSender application then placing the on-screen QR code into the box to automatically connect.



Additional vCast Pro Features

Customize the Display Device's Device Name

vCastSender allows the customization of the device's display name on vCast Pro.

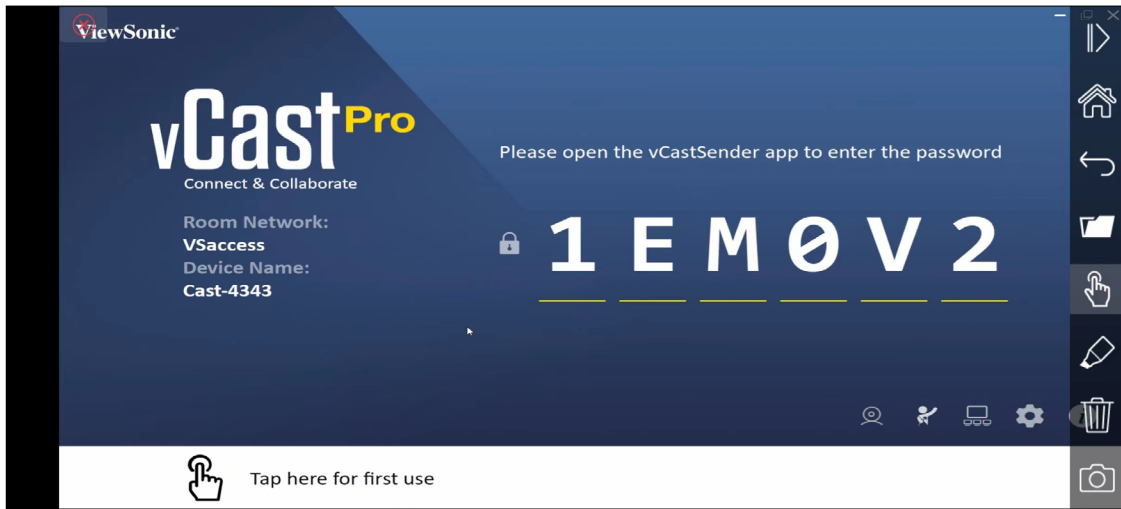


Wireless Screen Sharing and Touchback Control

When connected to a ViewBoard or display from a Windows, MacBook, or Chrome device the vCastSender application for Windows/MacBook/Chrome client devices can wirelessly share their screen and use ViewBoard touchback control to control the device remotely.

Connecting to a ViewBoard or Display from Mobile Device

Once connected, the ViewBoard or selected display screen will appear on the mobile device with an on-screen toolbar. Users can interact with the ViewBoard or display with annotations, file sharing, etc.



Item	Description
	Toggle Hide or display the toolbar.
	Home Return to the Home interface.
	Return Return to the previous operation.
	Folder View or open the mobile device's files.
	Share Cast the mobile device's screen to the connected ViewBoard or display.
	Touch Remotely control the connected ViewBoard or display.
	Annotate Make annotations, and adjust the pen color.
	Clear Clear everything on screen.
	Camera Send camera images to the connected ViewBoard or display.

Appendix

Frequently Asked Questions

Question	Answer
What is the minimum Wi-Fi signal strength for a reliable vCast Pro network?	<ul style="list-style-type: none">• In order to have reliable network signal strength to experience vCast Pro optimally, we suggest the minimum Wi-Fi signal strength for a reliable packet delivery to not be lower than -60 dBm.
What is the minimum video streaming network bandwidth recommended for reliable vCast Pro casting?	<ul style="list-style-type: none">• Minimum bandwidth recommendation: 1 MB/s (static picture < 100 KB/s; peak value of a dynamic picture is about 1 MB/s). <p>NOTE:</p> <p><u>Network Latency:</u></p> <ul style="list-style-type: none">• 1~30 ms: Very Fast; smooth screen casting.• 31~50 ms: Good; can screen cast normally, no obvious delay.• 51~100 ms: Normal; slight latency may occur when video/pictures are streaming.• ≥ 100 ms: Poor; there may be freezing and droppage.
Will multiple screen casting cause latency issues, especially with video streaming content sharing?	<ul style="list-style-type: none">• Multiple screen casting via video streaming can be a heavy load on a network. To experience ViewBoard Cast with multiple screen sharing with a reliable signal, we suggest the minimum Wi-Fi signal strength is not lower than -60 dBm and the minimum bandwidth recommendation is 1 MB/s.• If there is still a latency issue, please reduce vCastSender to not exceed two devices for the best performance.

Troubleshooting

This section describes some common problems that you may experience when using vCast Pro. Additionally, you can contact your sales representative or IT department if you are experiencing any problems.

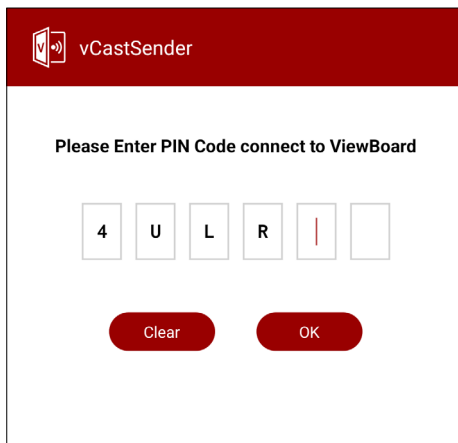
Problem or Issue	Possible Solution
Device List is not displayed	<ul style="list-style-type: none">• Please make sure you have followed all instructions for connecting to the same network environment. For more information, see the "Before Launching vCast Pro" section on page 6.
Unable to connect to vCast Download page	<ul style="list-style-type: none">• Ensure that the firewall for your operating system permits vCast Pro to run and communicate on your network.• This message will only appear if the server is using a self-signed certificate with an invalid trust chain.

Network Information

vCast Pro & vCastSender Service

Network Information

- The ViewBoard and client devices can connect to both the same subnet and cross subnet. If on the same subnet, PIN code input can be disabled.
- vCast Pro supports cross subnet connectivity via PIN code input. Please ensure PIN code input is enabled. To learn more, see the "Cast Settings" section on page 8.



NOTE: For a more stable connection, it is recommended to have any ViewBoard or display connected via LAN by Ethernet cable, and client devices on a 5 GHz Wi-Fi band.

- Ports:
 - » TCP 56789, 25123, 8121 & 8000 (Controlling message port & client device audio transfer)
 - » TCP 8600 (BYOM)
 - » TCP 53000 (Request share screen)
 - » TCP 52020 (Reverse control)
 - » TCP 52025 (Reverse control for ViewBoard Cast Button)
 - » TCP 52030 (Status sync)
 - » UDP 48689, 25123 (Device searching and broadcast & client device audio transfer)
 - » UDP 5353 (Multicast search device protocol)
- Port and DNS for Activation:
 - » Port: 443
 - » DNS: <https://vcastactivate.viewsonic.com>
- OTA Service
 - » Server Port: TCP 443
 - » Server FQDN Name: <https://vcastupdate.viewsonic.com>

Airplay Service

NOTE: Please ensure that mDNS is enabled on the network/access point/wireless controller (if applicable).

Network Information

- Ports:
 - » TCP 51040, 51030, 51020 & 51010
 - » UDP 5353 (mDNS to broadcast Airplay)
 - » UDP random port with a range of 52000~53000 (Transfer audio; assigned by AirPlay protocol)

How to Verify AirPlay is Broadcasting

1. Ensure that your iOS device and the ViewBoard or display are connected to the same subnet.
2. Open the Control Center and select AirPlay Mirroring on the iOS device (e.g., iPhone/iPad).
3. Find a device prefixed with “Cast-xxxx”.
4. If “Cast-xxxx” is showing then this confirms that vCast is broadcasting AirPlay services.
5. Click on the broadcasted “Cast-xxxx” device to mirror your iOS device to the ViewBoard.

Customer Service

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

NOTE: You will need to provide 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/		



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