

ViewSonic IFP6552 View Board Interactive Display



# ViewSonic IFP6552 View Board Interactive Display Instructions

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ViewSonic IFP6552 View Board Interactive Display



### Specifications:

- **Wireless Access Points:** Dual-band (5G) preferred
- **Network Connection:** Ethernet cable to in-room wireless access point

### Product Usage Instructions

#### Air Class:

To enter Air Class:

- **For Android phone/tablet:** Scan QR Code
- **For other devices:** Connect to the same Local Area Network and enter the on-screen URL: hp://(enter your URL here):8080

#### AirPlay Service:

To use AirPlay:

- Ensure mDNS is enabled on the network/access point/wireless controller
- Connect to in-room wireless access point via Ethernet cable
- Select 5G mode for optimal casting
- Ports for AirPlay: TCP 51040, 51030, 51020, 51010; UDP 5353, UDP random port range 52000-53000

#### Chromecast Service:

To use Chromecast:

- Ensure mDNS is enabled on the network/access point/wireless controller

### Introduction

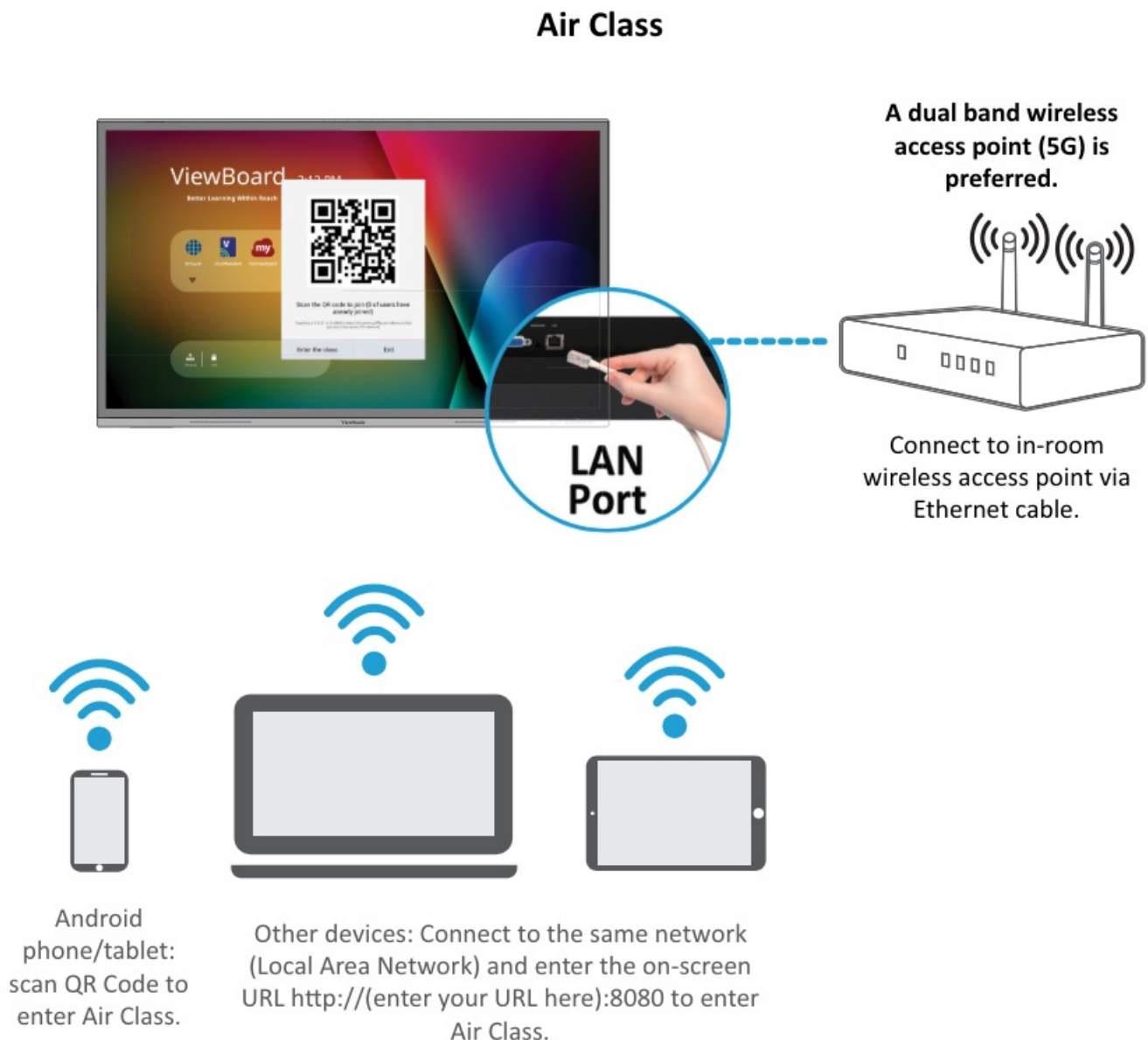
This guide will introduce the network requirements for ViewBoard's preloaded software and help IT administrators set up ViewBoard products within their IT infrastructure.

## NOTE:

- Please ensure the wireless infrastructure supports broadcast service and it is turned ON.
- For a more stable connection, it is recommended to have any ViewBoard® connected via LAN by Ethernet cable, and client devices on a 5 GHz Wi-Fi band.

## Air Class

Display quiz questions on a ViewBoard and allow up to 30 mobile users to submit answers remotely. Whether administrating single or multiple-choice questions, the ViewBoard® will record the results of each device being used.



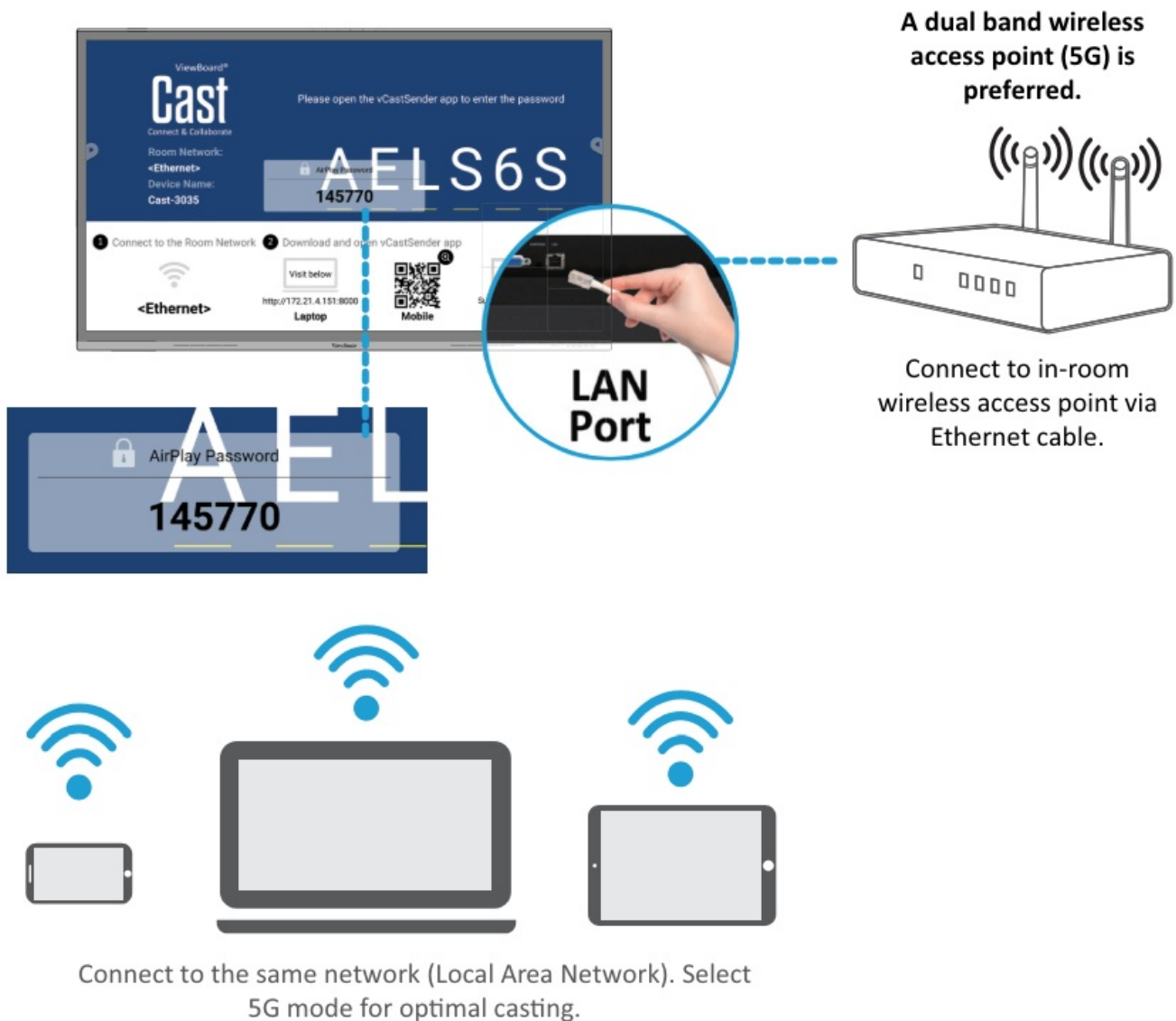
## Network Information

- PC (Windows/Mac/Chromebook) and tablet/mobile (iOS/Android) devices, as well as the ViewBoard, need to be connected to the same network subnet.
- **Port:** TCP 8080

## AirPlay Service

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

### AirPlay



### 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® are connected to the same subnet network.
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.

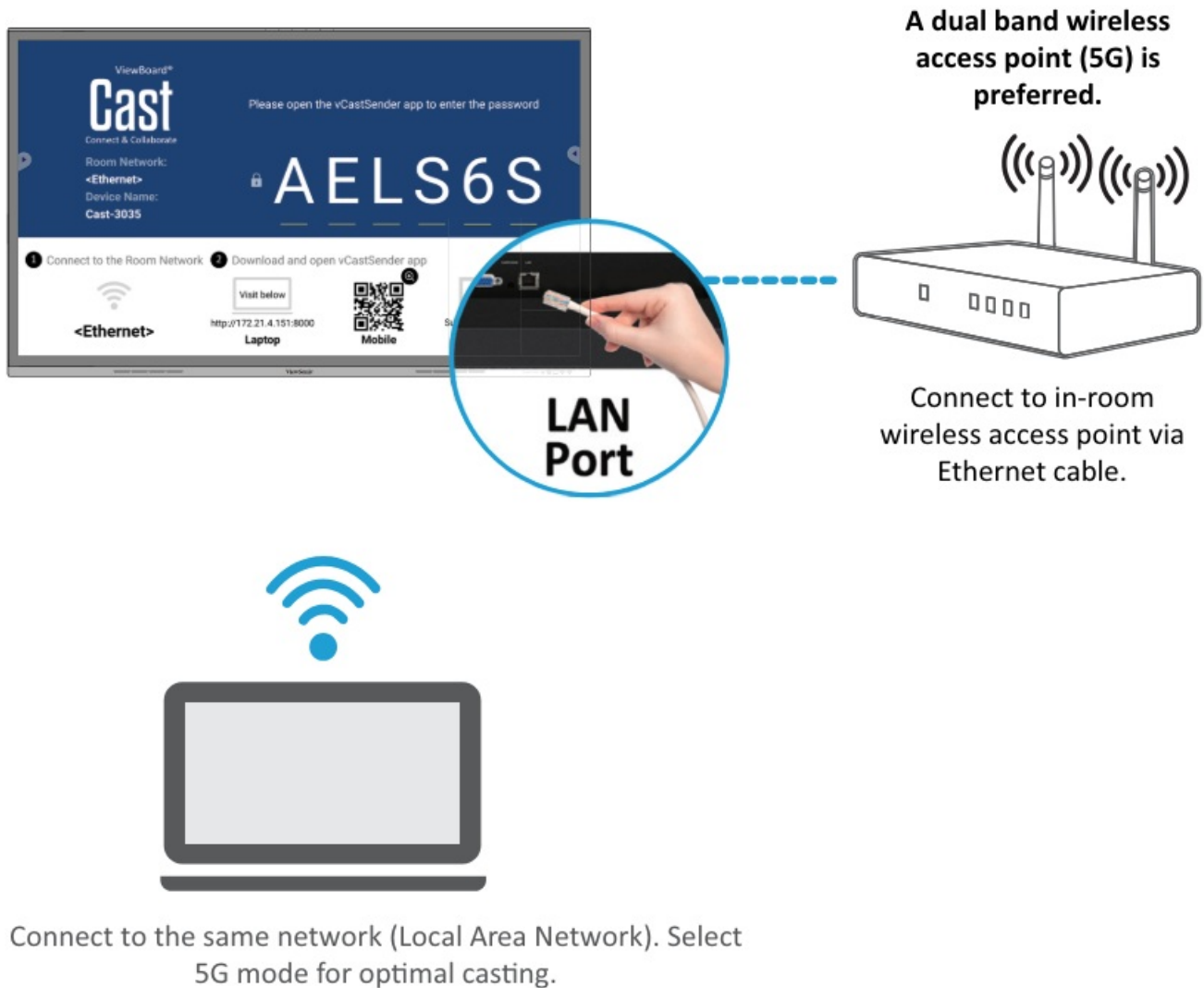
5. Click on the broadcasted “Cast-xxxx” device to mirror your iOS device to the ViewBoard®.

## Chromecast Service

ViewBoard® Cast software supports native Chromecast screen sharing via the Chrome browser casting with the Chromecast feature enabled.

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

## Chromecast



## Network Information

- **Ports:**
  - TCP 8008 & 8009
  - UDP 5353 (mDNS to broadcast CCast)

## How to Verify Chromecast is Broadcasting

1. Ensure that your Chromebook and ViewBoard are connected to the same subnet network.

2. **Bandwidth:** At least 2~5 Mbps per user in a typical deployment. Latency should be less than 100 ms when pinging Google's public DNS server at 8.8.8.8; for HD video streaming > 5 Mbps is required.

3. **Access points:**

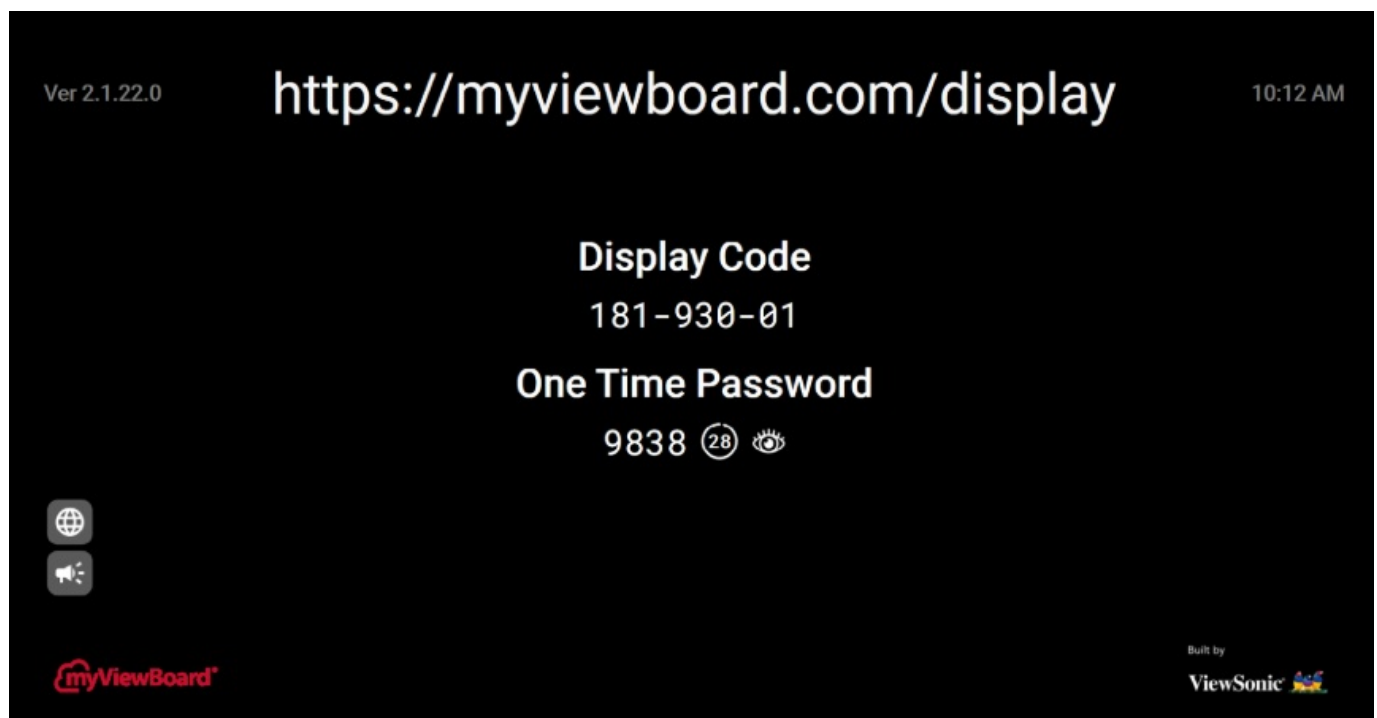
- For small deployments of under 30 devices, consumer-grade networking equipment is sufficient.
- For deployments greater than 30 devices or involving multiple rooms, enterprise-grade, centrally managed networking equipment is recommended.

**NOTE:**

- It is recommended to use Wi-Fi 802.11n 5 GHz.
- Please refer to a 5 GHz channel guide for a table on non-DFS channels in your country. In the USA, those channels are 36~48 and 149~165.

## Display Service

- myViewBoard Display allows users to mirror their desktop wirelessly to supported Interactive Flat Panels (IFP) and Wireless Presentation Displays (WPD).
- myViewBoard Display comes pre-installed on select ViewBoard® hardware, but can also be installed manually on any IFP or WPD that runs Android 6 or higher.
- Once myViewBoard Display is installed on an IFP or WPD, users will only need to use a compatible browser to start mirroring their device screen to the host.



## Network Information

**Ports:**

- **TCP Port 443 (HTTPS):** outbound
- UDP and TCP port 3478 bidirectional to the WebRTC servers

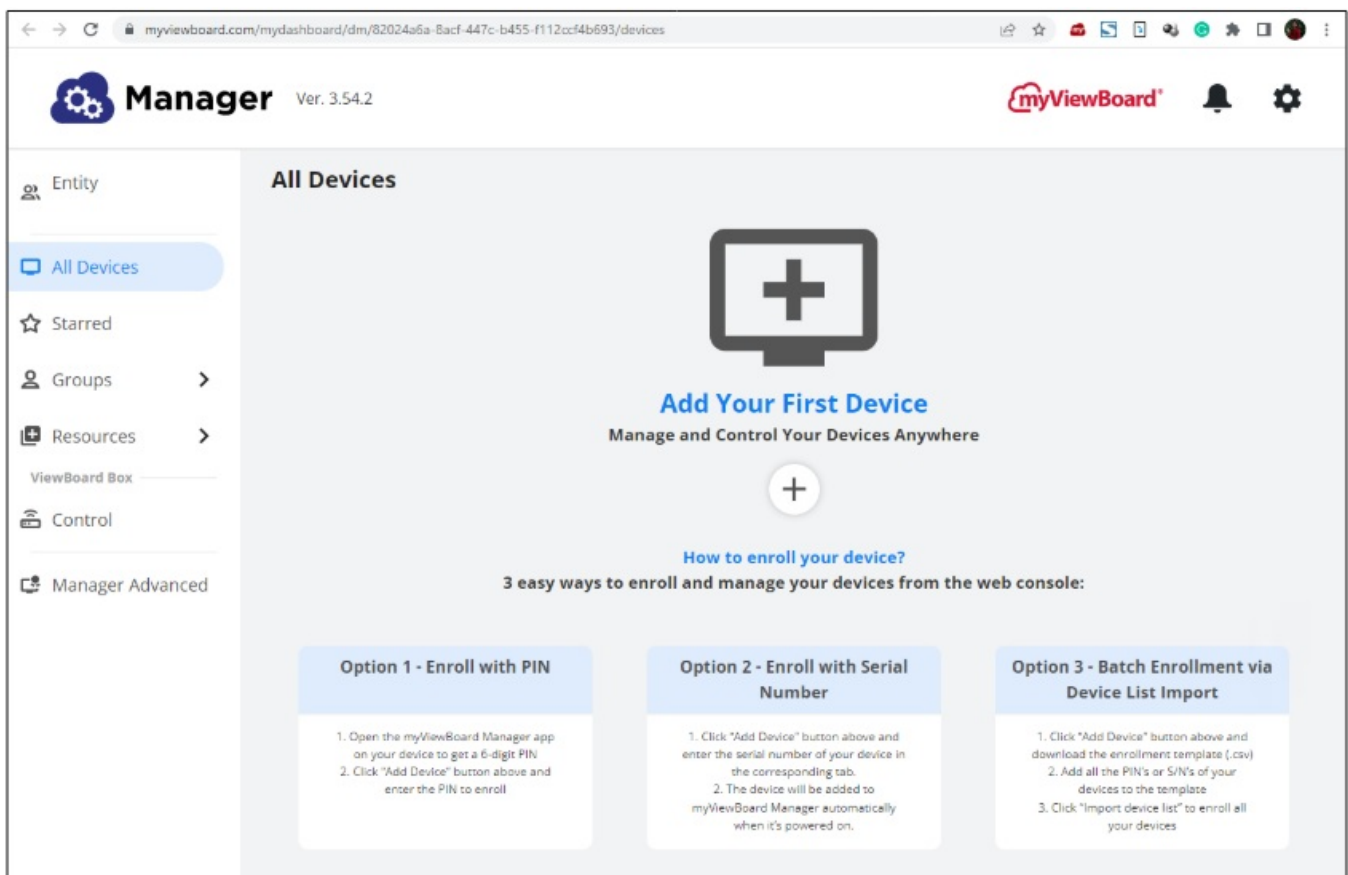
- UDP Ports 50,000 – 65,535 (RTP/sRTP/RTCP) bidirectional to the WebRTC servers (These ports are optional; if blocked, media will be proxied using TURN on port 3478.)

## Manager Service

myViewBoard Manager is a tool for Entity Administrators to remotely manage multiple installations of ViewSonic visual solution devices such as a ViewBoard®. To access, select the Entity Management tile, then All Devices on the side panel.

**NOTE:** This option is only available for users signed in using an Entity Administrator account.

To learn more, visit: <https://myviewboard.com/kb/manager>.



## Network Information

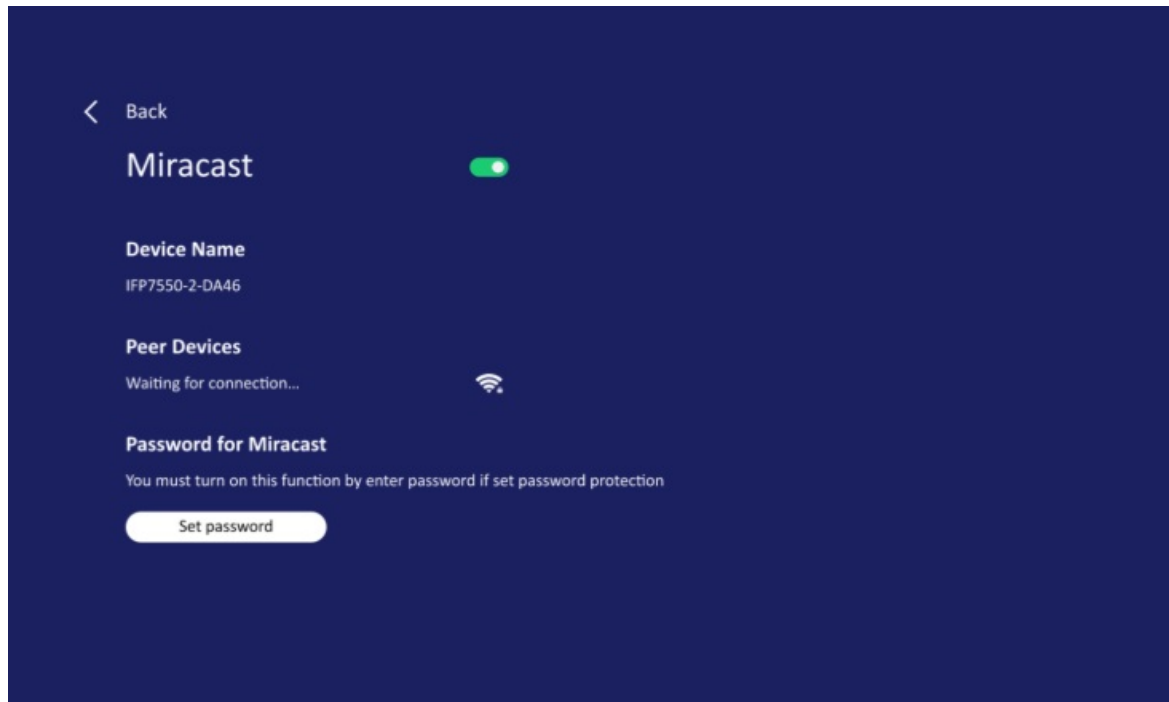
- **Ports:**
  - TCP Port 443 (HTTPS): bidirectional
- **Whitelist Domains:**
  - [myviewboard.com](https://myviewboard.com)
  - myviewboard.cloud
  - [myviewboardclips.com](https://myviewboardclips.com)
  - [firebraseio.com](https://firebraseio.com)
  - [amazonaws.com](https://amazonaws.com)

## Miracast Service



Miracast helps you wirelessly stream content from Windows and Android devices to an Interactive Flat Panel (IFP) or Wireless Presentation Display (WPD).

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



## Network Information

- **Ports:**

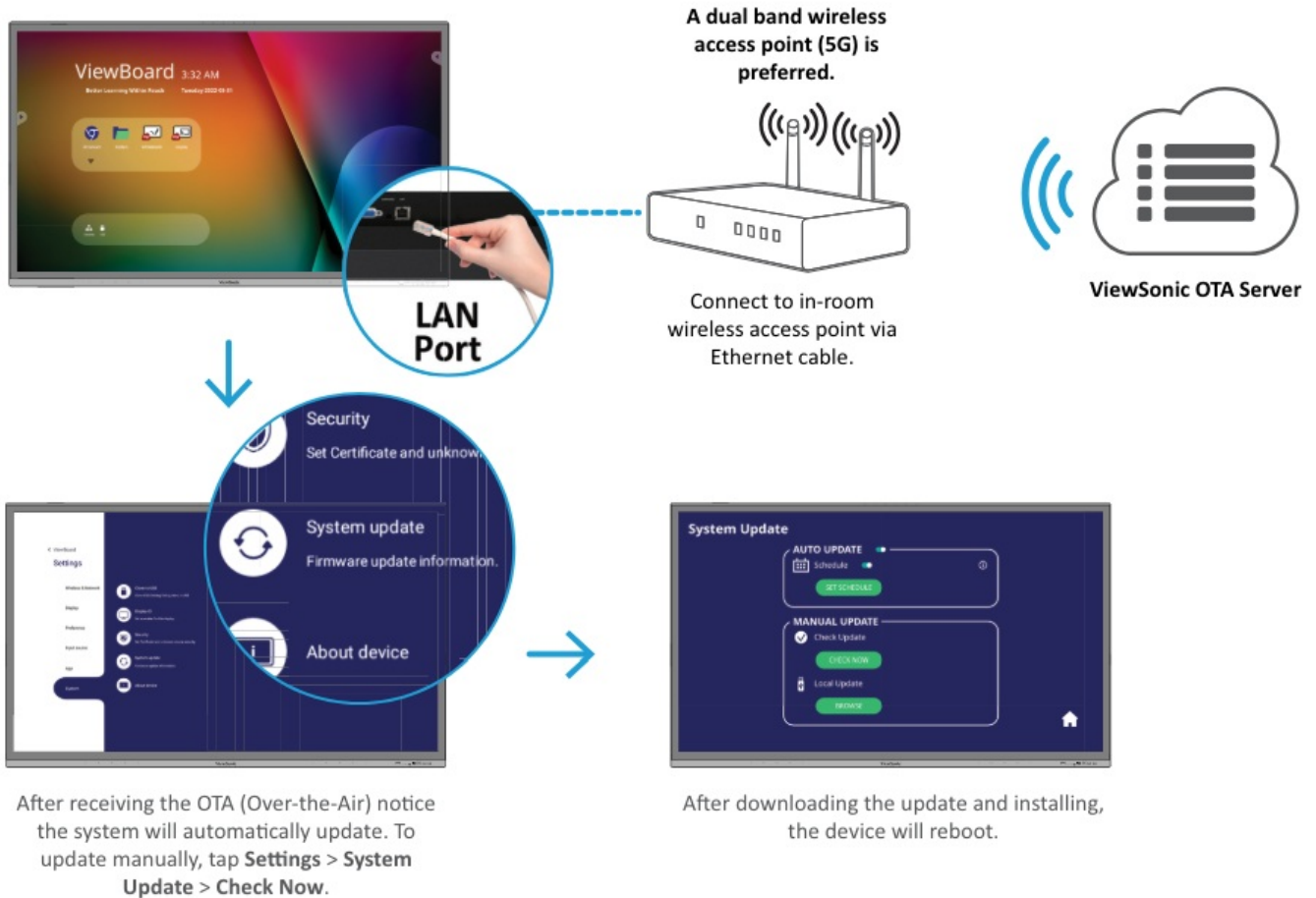
- **TCP Port 7236:** Wi-Fi direct control port used to establish and manage sessions between the source device and ViewBoard.
- UDP port 21200 for RTP packets and UDP port 21201 for RTCP packets.
- UDP 5353 for multicast DNS (mDNS) broadcast to the local subnet.
- **IP address(s):** IPv4 address: 192.168.49.0, subnet mask: 255.255.255.

## Over-the-air (OTA) Service

If Auto Update is enabled on a ViewBoard® and it is connected to the Internet, it will automatically search for firmware updates. If an update is available, the ViewBoard® will automatically download and install it then reboot.



## OTA Service



## Network Information

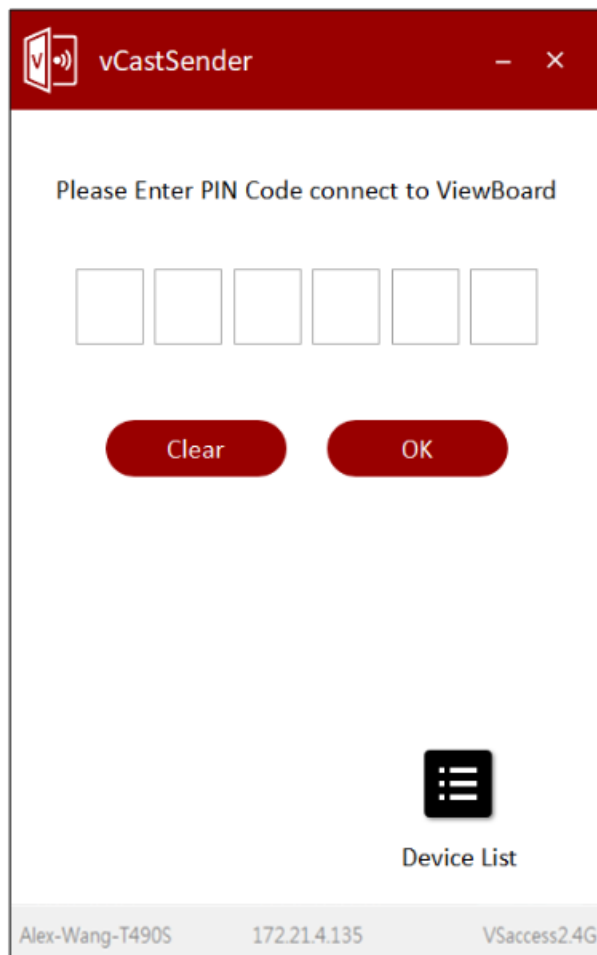
- **Server FQDN Name:** [ifp-ota.s3-accelerate.amazonaws.com](http://ifp-ota.s3-accelerate.amazonaws.com), [www.viewsonicglobal.com](http://www.viewsonicglobal.com)
- **Server Port:** TCP 443

## vCast & vCastSender Service

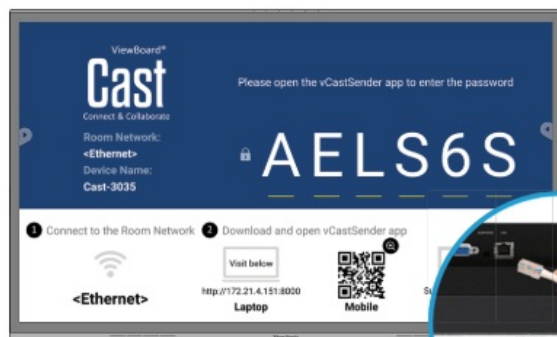
Working with ViewBoard Cast software, the vCast application, will allow the ViewBoard to receive vCastSender laptop screens (Windows/Mac/Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s).

## Network Information

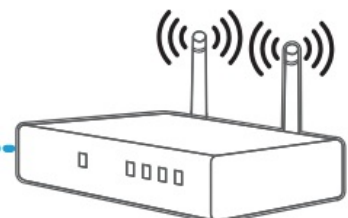
- ViewBoard Cast software, laptops, and mobile devices can connect to both the same subnet and cross subnet network.
- Please enter the on-screen PIN-code to connect to the ViewBoard



## vCast



**A dual band wireless access point (5G) is preferred.**



Connect to in-room wireless access point via Ethernet cable.



Connect to the same network (Local Area Network). Select 5G mode for optimal casting.

- **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)
- TCP 52040 (Moderator mode)
- 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>

## FAQ

### How to Verify AirPlay is Broadcasting?

To verify AirPlay broadcasting, follow these steps:

1. Connect to the same Local Area Network
2. Open the Control Center on iOS device
3. Select AirPlay Mirroring
4. Find a device prefixed with Cast-xxxx
5. If Cast-xxxx is showing, vCast is broadcasting AirPlay services
6. Click on the broadcasted Cast-xxxx device to mirror your iOS device

### How to Verify Chromecast is Broadcasting?

To verify Chromecast broadcasting:

1. Connect to the same Local Area Network
2. Check for broadcasting Chromecast services

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## Documents / Resources

	<p><a href="#">ViewSonic IFP6552 View Board Interactive Display</a> [pdf] Instructions IFP6552 View Board Interactive Display, IFP6552, View Board Interactive Display, Board Interactive Display, Interactive Display, Display</p>
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## References

- [Cloud Computing Services - Amazon Web Services \(AWS\)](#)
- [ifp-ota.s3-accelerate.amazonaws.com](https://ifp-ota.s3-accelerate.amazonaws.com)
- [ViewSonic - Home](#)
- [Manager myViewBoard Knowledge Base](#)
- [vcastactivate.viewsonic.com](https://vcastactivate.viewsonic.com)
- [User Manual](#)

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