

Wireless Collaboration. Connect. Work. Share.



NovoEnterprise

User Manual



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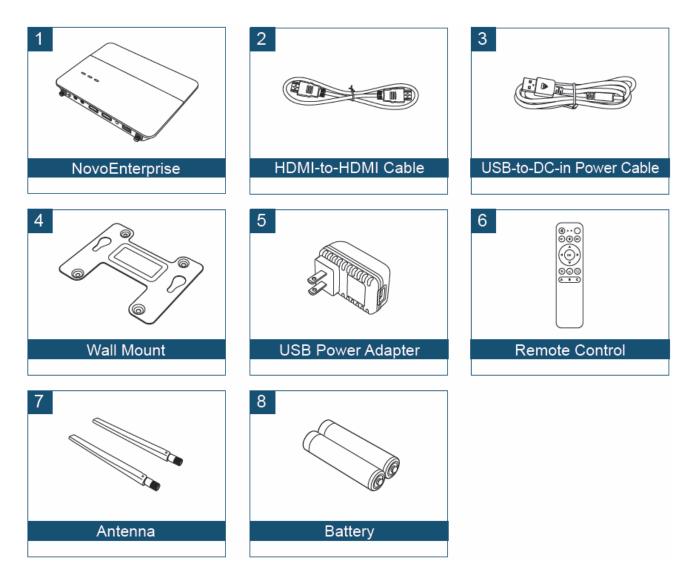
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1 Getting Started

1.1 Package Content



1.2 Hardware Setup

1.2.1 NovoEnterprise



No.	Item	Description	
1	Reset Button	Restarts the NovoEnterprise.	
2	Line-in, 3.5mm Jack	Accepts input from external microphone.	
3	Audio-out, 3.5mm Jack	Connects to audio line-out devices.	
4	HDMI-in Port	Accepts input from external audiovisual devices and allows users to broadcast or show information via HDMI interface.	
5	HDMI-out Port	Connects to a TV/projector's HDMI input port with the provided HDMI cable.	
6	DC 5V Power-in Jack	Connects the DC 5V Power-in Jack to a power outlet.	
7	RJ45 (Ethernet) PoE	Connects to an Ethernet 10/100/1000 based network.	
8	Type A USB Port	 Connects to Type A USB devices (e.g., USB mouse/keyboard) Connects to the touch port of a touchscreen display to allow touchscreen control. 	
9	Type A USB Port	 Connects to Type A USB devices (e.g., USB mouse/keyboard) Connects to the touch port of a touchscreen display to allow touchscreen control. 	
10	MicroSD Card Slot	Accepts MicroSD cards.	
11	Kensington [®] Security Slot	Connects to a Kensington-compatible computer security lock.	

Setting up NovoEnterprise is simple and straightforward.

- 1) <u>Video/Audio connection</u>: Connect the HDMI-out port to a TV/projector's HDMI input port with the provided HDMI cable (item (2) in "Package Content").
- 2) <u>Power</u>: Connect the DC 5V Power-in Jack to a power outlet with the provided USB power adaptor and USB cable (items (3) and (5) in "Package Content").

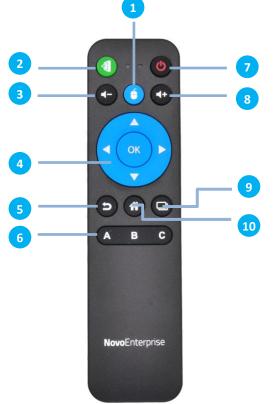
If everything is set up properly, NovoEnterprise's green LED should be illuminated.

NOTE:

• You may connect an optional USB mouse/keyboard or a USB disk to the USB port.

- If more USB ports are needed, you can connect a USB hub to the USB port.
- The microSD slot supports microSD cards up to 64GB.

1.2.2 Remote Control



No.	Button Description	
1	Mouse Button	Functions like the left click of a computer mouse.
2	NovoEnterprise Home Screen	Brings up the NovoEnterprise home screen.
3	Volume Down	Decreases the sound volume.
4	Cursor Keypad	Selects the desired items/functions on the Android home screen or NovoEnterprise home screen.
5	Return	Returns to previous page.
6	A / B / C Buttons	Brings up the designated functions. NOTE: Button function can be re-configured (Section 1.4).
7	Power On/Off	Turns On/Off the NovoEnterprise.
8	Volume Up	Increases the sound volume.
9	Previous Window	Displays all previous windows.
10	Android Home Screen	Brings up the Android home screen.

1.2.2.1 Pairing the remote control

Before you can use the remote control, you must first pair it with your NovoEnterprise.

To pair the remote control:

- 1) Power on the NovoEnterprise.
- 2) With the remote control in range of the NovoEnterprise, press and hold the Volume Up and Volume Down buttons simultaneously for 2 seconds. The left LED will light up and start

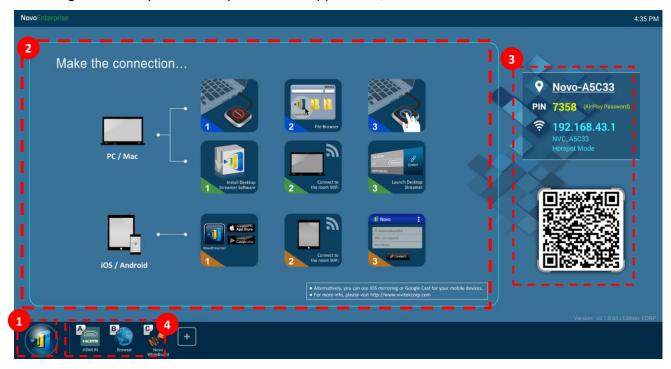
blinking.



- 3) Once the LED stops blinking and stays constantly lit, pairing is complete.
- 4) Release the Volume Up and Volume Down buttons and the LED will turn off.

1.3 NovoEnterprise Home Screen

After a successful boot-up, the NovoEnterprise device will show the following screen, which is referred to as "NovoEnterprise home screen" or just "home screen" in this document. The home screen is generated by NovoEnterprise's main application, *Remote Viewer*.



NOTE: NovoEnterprise Home Screen features different background images for Corporate Edition and Education Edition. The image shown above is of Corporate Edition.

Basic Device Configuration

NovoEnterprise is default at Wi-Fi Hotspot mode with its SSID name displayed at the home

screen (e.g. Novo_A5C33 in box ³). Alternatively, you can connect the NovoEnterprise to any

existing network via a wireless and/or a wired connection. Click on the 💹 button, then "WiFi"

to make the necessary changes. Similarly,

- Click on the *button*, then "Display" to change display-related settings.
- Click on the 💹 button, then "Settings" to change other general settings.

Software Installation

Windows/Mac Users:	Open Desktop Streamer's download link shown on the home screen with your web browser and follow the on-screen instructions. Or simply visit http://vivitekcorp.com/ for the software download.
iOS/Android Users:	Install NovoPresenter from App or Play Store. See Section 1.5.
Chromebook Users:	Install Desktop Streamer from Chrome Web Store. See Section 1.5.

3 Connection Information

- Device Name / Location 🛛 Users can change this to a meaningful room name.
- **PIN PIN** <u>This</u> is an optional PIN code to join a presentation session.
- IP address 🗄 🛜 Ethernet and Wi-Fi IP address respectively.
- QR code It has all the above-mentioned information. With tablets/phones, users can use *NovoPresenter* to connect to a presentation session by scanning this QR code. You can also click on the QR code to get an enlarged version of the connection information:



4 Shortcuts

NovoEnterprise has several apps app installed locally, such as an internet browser and the Novo Whiteboard, which you can access directly from the home screen. To add more app shortcuts

click on the 🖿 button to choose from a list of available apps to add to the home screen.

When using any app in the Remote Viewer environment, click the 💷 button at any time to

return to the NovoEnterprise home screen or the 🖸 button to return to the previous screen.

1.4 Basic Device Configuration

Before being deployed, a NovoEnterprise device may require some basic configuration such as setting

up its display resolution, network connection, etc. To access the various settings menus click the button on the NovoEnterprise home screen and click the respective menu you want to open. To do so, typically a USB mouse is needed. Alternatively, you can use the provided Remote Control to do so. *NOTE: Following any clicking activity on the screen, the navigation bar appears. You could hide*

the navigation bar by clicking the back button 🖾 one or more.



Function	Description
	 Show Participants: Click on Show Participants to bring up the participant list from the bottom of the NovoEnterprise home screen. Refer to Section 3.3 for more information. NOTE: This option will be grayed-out if there is not any participant in the session.
WiFi • Enable WiFi Hotspot Channel 8 • • Enable LAN-WiFi-Hotspot routing • Connect to WiFi • Turn off WiFi Apply Cancel	 Wi-Fi: Click on WiFi to bring up the Wi-Fi configuration dialog. To use the NovoEnterprise as the Wi-Fi host, select "Enable WiFi Hotspot" and click Apply. Check "Enable LAN-WiFi-Hotspot routing" to allow access to NovoEnterprise with a wired or wireless connection simultaneously. To connect to an existing Wi-Fi network, Select "Connect to WiFi". Click on Configure to bring up a new Wi-Fi configuration page. Enable Wi-Fi connection. Select the SSID of the external router. Enter the Wi-Fi's password if prompted. Click on Connect to start the connecting. To turn off Wi-Fi, select "Turn off WiFi" and click Apply.



Description

Display:

Click on **Display** to bring up the Display dialog.

Resolution

- Select the one that matches the display screen best. •
- Click Save to confirm the selection, or click Cancel to abort the selection.

Auto Config	NovoEnterprise will automatically determine the optimal screen resolution.	
XGA (1024x768) WXGA (1280x800) 720p 60Hz (1280x720) 1080p 60Hz (1920x1080)	You can specify your desired display output resolution. NOTE: NovoEnterprise supports 60Hz display refresh rate if the display output resolution is set to 720p or 1080p. Check the user manual of your display or visit the manufacturer's website for information on how to set the display refresh rate to 60Hz. Certain users may experience compatibility issues if their displays only support 50Hz display refresh rate.	
<u>Scaling</u> This allows you to shrink the size of the screen.		
HDMI-CEC		

This allows you to enable/disable the Consumer Electronics Control (CEC) function which allows you to command and control the NovoEnterprise by using only another device's remote control.

Sleep Timer

- Select "Do not enter sleep mode" to keep NovoEnterprise • always on even when NovoEnterprise is not being used. This is the default setting.
- Select "Enter sleep mode after idle-timeout" to have • NovoEnterprise shutdown after being idle for a designated period of time. Select "Enter sleep mode after idle-timeout" and then set the timer. The options are: 5 minutes, 10 minutes, 15 minutes, 30 minutes and 1 hour.
- Select "Always on" to set a time period when NovoEnterprise • will power on and stay on. Select "Always on" and then specify the start-up and shutdown time.
- Click Apply to confirm the selection, or click Cancel to abort the • selection.

Settings:

Click on Settings for more device settings.





Description

•

- General Settings: Access the Android system settings.
- Firmware Upgrade: Upgrade the NovoEnterprise to the latest version.
- Settings Protection: This allows users to lock the settings with a password, or unlock it.
- Screen-Cast Configuration: This allows users to enable Google Cast, AirPlay or PIN protection.
 - Check "Enable Google Cast" to enable Google Cast for screen casting of Android devices.
 - Check "Enable AirPlay" to enable AirPlay for screen casting of iOS devices. Check "Enable AirPlay Password" if you want to require a password to screen cast via AirPlay.
 - Check "PIN Required" to make using a PIN code mandatory to login via Desktop Streamer or NovoPresenter for all presentation sessions.
 - Custom Remote Control: This allows users to set the A, B and C
 button of the remote control as quick keys to bring up certain
 NovoEnterprise functions. The button function also can be reconfigured via the Custom Remote Control option. After
 opening "Custom Remote Control", click A, B and C button to
 set them as quick keys to bring up those NovoEnterprise
 functions you most frequently use.

The default functions for the A/B/C buttons are:

- A: Starts to broadcast or show information from an external audiovisual device connected to the NovoEnterprise via the HDMI-in port.
- B: Opens the Internet browser.
- C: Brings up Novo Whiteboard.
- Log Download: This allows users to download the log for NovoEnterprise. Users can follow the process below to download the log for their NovoEnterprise.
 - 1. Check "Enable Log Download" and the URL where users can download the log will appear.
 - 2. Enter the URL in the web browser on a computer connected to the Internet and then follow the instructions shown on the display to download the log.

Device Edition:

Click on Device Edition to bring up Select Edition dialog.

- Select either **Corporate** or **Education**, then click **Confirm** to make the edition change official, or click **Cancel** to abort the edition change.
- The main differences between these two editions are as follows:

Feature	Education Edition	Corporate Edition
Projection Control	 Only HOST (teacher) can switch users Switch users without permission 	 Two modes 1) Moderator On Only moderator can switch users Users' permission is
		required 2) Moderator Off

Software C

Function	Description		
		Yes No Yes Yes 'imarily references the C s. Special notes will acco e Education Edition.	
About Image: Display state of the state of t	 This dialog box also sl Wi-Fi connection for l Click on Software compatibility list Streamer or Nove 	e Compatibility to bring which allows you to che oPresenter application in bile device is compatible	or the (1) LAN and (2) up the software eck if the <i>Novo Desktop</i> installed on your

NOTE: Users must have Internet access on their computer or mobile device in order to access the software compatibility list.

Function

Description

Hide Session Info:

Click on **Hide Session Info** to hide/reveal the login info located at the top right side of the NovoEnterprise Remote Viewer home screen.

Hide QR Code:

Click on **Hide QR Code** to hide/reveal the QR code for quick login located at the right side of the NovoEnterprise Remote Viewer home screen.



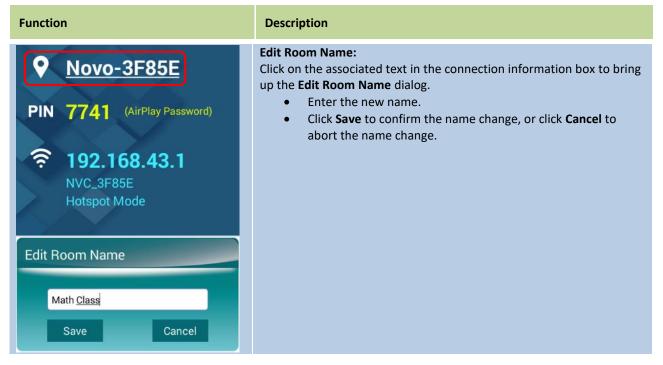
Show Paired LauncherPlus:

This function allows you to select the color for the LauncherPlus devices that are paired to the NovoEnterprise. Once a color is set for the NovoEnterprise, the respective LauncherPlus color icon will appear at the bottom right corner of the NovoEnterprise home screen to allow users to quickly identify (via the colored ring on the LauncherPlus devices) which LauncherPlus device is already paired to the NovoEnterprise.

NOTE: The different color clips shown the LauncherPlus devices are used to easily identify which LauncherPlus unit your device is connected to.

Slideshow Config	Configure Slideshow: Click on Configure Slideshow to customize the image(s) shown in the
Shown in Full Screen Preload slide_1.png Duration: 20.sec User-defined OK Cancel	 Click on Configure Slideshow to customize the image(s) shown in the software installation box of the NovoEnterprise Remote Viewer home screen. Shown in Full Screen: The NovoEnterprise Remote Viewer home screen image will be displayed in full screen if it is checked. Preload: Allows users to choose which pre-loaded image will be displayed on the NovoEnterprise Remote Viewer home screen.
Restart Do you want to restart this device? Yes Cancel	Restart: Click Restart to restart the NovoEnterprise.

You can also configure the name for the NovoEnterprise device to more easily identify the display:



1.5 Client Software Download and Installation

To connect to a NovoEnterprise device, one of two client applications may be needed on your device. They are,

> <u>Novo Desktop Streamer</u> : Windows, Mac, Chromebook <u>NovoPresenter</u> : Android, iOS

Software Download/Installation for Windows and Mac

You can download the software directly from <u>http://www.vivitekcorp.com</u>. Alternatively, you can download it from the NovoEnterprise device.

- (1) Connect your computer to the same network as the NovoEnterprise.
- (2) Open Desktop Streamer's download link shown on the home screen with your web browser and follow the on-screen instructions.



For the example home screen shown above, you would use <u>http://192.168.43.1:8080</u>. You will be able to see the download page, as shown in the following figure.



- (3) Select the appropriate OS and then click the **DOWNLOAD** button to start the download.
- (4) Execute the downloaded file to start the installation. Following the on-screen instructions and you should be able to finish the installation in a couple minutes.

App Download/Installation for Android/iOS

- For iPhones/iPads, download and install *NovoPresenter* App from the Apple App Store.
- For Android phones/tablets, download and install *NovoPresenter* App from the Google Play Store.

• For all mobile devices, you can also connect your mobile device to the same network as the NovoEnterprise, open the local download address (as described above) with your device's web browser, and then click on either the App Store or Google Play QR code to directly link to the *NovoPresenter* app's download page.

App Download/Installation for Chromebooks

Download and install *Novo Desktop Streamer* from the Google Chrome Web Store.

2 Setting Up Network

To fully take advantage of NovoEnterprise's capabilities, it should be properly deployed in a school or corporate's network. Some aspects should be carefully considered and planned, for example, Wi-Fi interference and channel selection and intranet firewall. In this chapter, these aspects will be illustrated to facilitate a successful NovoEnterprise deployment in your network.

2.1 Network Connection

NovoEnterprise has three network connection types, Ethernet, Wi-Fi Client, and Wi-Fi Hotspot.

- A) **Ethernet** NovoEnterprise can be plugged into your Ethernet via its RJ45 port. Namely, you can connect NovoEnterprise to your organization's backbone network. It is recommended to use Ethernet connection (when possible) since it gives you better robustness and higher performance.
- B) Wi-Fi NovoEnterprise's built-in 802.11ac Wi-Fi operates at dual bands (2.4/5GHz). With its 2T2R antenna, it can achieve a maximum bandwidth of 300Mbps.¹. This highperformance Wi-Fi module can operate at two modes.
 - a) **Client Mode** NovoEnterprise can be connected to your organization's Wi-Fi network via its built-in Wi-Fi module.
 - b) **Hotspot Mode** NovoEnterprise can creates its own Wi-Fi network, allowing users to connect their mobile devices to this ad hoc network.

The following table summarizes their feature difference and typical usage.

	Ethernet/Wi-Fi Client Mode	Wi-Fi Hotspot Mode
Number of Users Allowed	64	8
Internet/Intranet Access	Yes	No
Typical Usage	Pre-configured for School or Corporate	Quick setup for small- group meetings

It is worth mentioning that Ethernet and Wi-Fi connections can coexist on NovoEnterprise. Namely, you can configure NovoEnterprise in Ethernet and Wi-Fi Client mode, or in Ethernet and Wi-Fi Hotspot mode.

2.1.1 Ethernet

The following home screen shows NovoEnterprise is in Ethernet mode, where its Ethernet IP is highlighted in a red box.

¹ 300Mbps is the maximum value while the actual bandwidth may vary depending on operating environment.



When connecting to a wired network, NovoEnterprise supports both DHCP and Static IP connection types.

- **DHCP**: NovoEnterprise obtains its IP address from the DHCP server on the network.
- Static IP: NovoEnterprise is assigned a fixed IP address manually.

"DHCP" is the default connection type. However, "Static IP" might be more preferable as it makes remote management much easier.

The following diagram illustrates how to select one of these two connection types ($\swarrow \rightarrow \underline{Settings} \rightarrow \underline{Settings}$



NovoEnterprise		
Make the connection		9 Novo-A5C33
	Settings	PIN 2383 192.168.43.1 NVC.ASC33
PC / Mac	General Settings Firmware Upgrade Exact Data	
iOS / Android	Screen-Cast Configuration Custom Remote Control Log Download	
		na
KOM IN BOOM		

To set up "Static IP" properly, you need to have the following information, as shown in the diagram on the right.

- An unallocated IP address;
- Netmask;
- DNS address;
- Gateway address.

Ethernet Devices: eth0	
Connection Type DHCP	
Static IP	
IP address 192.168.29.190	
Netmask 255.255.255.0	
DNS address 192.168.29.12	
Gateway address 192.168.29.1	
Proxy None	
Discard	Save

2.1.2 Wi-Fi Client Mode

In this mode, NovoEnterprise functions as a client to join an existing Wi-Fi network. As illustrated in the

following diagram, to set up the Wi-Fi connection, on NovoEnterprise home screen, click on $\fbox{}$ \rightarrow

<u>WiFi</u> \rightarrow <u>Connect to WiFi</u> \rightarrow <u>Configure</u> \rightarrow <u>Wi-Fi (ON)</u>. Then select the desired Wi-Fi SSID (the name associated with the Wi-Fi network) and enter the proper credentials when necessary.

You may notice that you have the choice of using "**DHCP**" or "**Static IP**" in the connection dialog, which is exactly the same as Ethernet connection.



Wi-Fi Network Optimization: To achieve good user experience with NovoEnterprise devices deployed in your organization's Wi-Fi network, it is recommended that you keep an eye on RF interference, Wi-Fi signal strength, Wi-Fi channel utilization, etc. It is worth mentioning that two popular Apps can help determine whether there is any wireless network channel interference.

- "Wi-Fi Analyzer" on Android devices;
- "InSSIDer" tool on Windows OS.

The following is a screenshot from "Wi-Fi Analyzer" App. As you can tell, Wi-Fi channel 6 is heavily utilized. You might want to change one or some of them to other less-crowded channels.



Logging in a Wi-Fi Network via Captive Portal: Some Wi-Fi networks are equipped with a captive portal, which requires users to log in via a web browser before they can access the Internet. When a NovoEnterprise device is connected to this type of network, users can follow the following steps:

- A. Follow the above configuration steps to connect to the organization's Wi-Fi network;
- B. After the Wi-Fi is connected, click on button "Browser" on the home screen (see the picture below);
- C. Open this web browser and you will be prompted for login credentials.
- D. Enter the proper username and password, and you will be connected to the network;
- E. Click the button "Return Back" on the home screen to return to NovoEnterprise App main interface.



Logging in a Wi-Fi Network with 802.1x Authentication:

When you connect to a Wi-Fi network with 802.1x authentication (for example, radius server), you will need to enter the following fields to set up the connection properly:

- Network SSID → Your network
- Security → 802.1x Enterprise
- Choose the right settings for
 - EAP method
 - Phase 2 authentication
- Identity → Your username (such as DOMAIN\John.Smith)
- Password \rightarrow Your password

Click on button "Connect" to start the connection.

2.1.3 Wi-Fi Hotspot Mode

A newly unpacked NovoEnterprise starts up in Wi-Fi Hotspot mode, where you can start using it without any entanglement with networking setup. The default SSID for this Wi-Fi Hotspot is "NVC_XXXXX" (for example, "NVC_3F85E" in the following screenshot), where "XXXXX" is a device-generated text string. Please note that Android mirroring (GoogleCast) is disabled in this mode. In comparison, AirPlay mirroring has no such limitation.



2.1.4 Dual-Network Configuration

NovoEnterprise can even be connected to both your organization's wired network and wireless network simultaneously. This function is extremely useful for organizations with "guest" wireless network setup for external visitors. In such a case, NovoEnterprise's RJ45 port is connected to a wired EMPLOYEE network for employees to securely access it; at the same time NovoEnterprise's Wi-Fi is connected to a GUEST network to allow visitors to access it. The following graph describes such a network setup scenario.

xxxx_WiFi		
EAP method		
PEAP		
Phase 2 authentic	ation	
None		
CA certificate		
(Unspecified)		
Identity		
Anonymous ident	ity	
Enter password		
(unchanged)		
Show password		
Show advanced options		
Cancel	Connect	



By doing so, the GUEST and EMPLOYEE networks are kept separated, while at the same time, the NovoEnterprise device is available to both guest users and employees.

Notes on Network Security: Within NovoEnterprise, the Wi-Fi section is completely separated from the Ethernet section, namely, there is no network routing between these two sections. Therefore, users connecting to the Wi-Fi section will not be able to access any resource on the Ethernet at all, and vice versa. In short, security is not compromised in this configuration.

2.2 Port Numbers and Intranet Firewall

NovoEnterprise is a TCP/IP-network-based device, and the communications between a NovoEnterprise device and its client devices (e.g. laptops, tablets, etc.) are achieved through several TCP and UDP ports. The following table summarizes all the port numbers being used.

Port Number	Туре	Description	
20121	ТСР	Port to transfer commands and status reports between the NovoEnterprise unit and users' devices. (For example, laptops/tablets use this port to establish "connection" to the NovoEnterprise unit.)	
20122	ТСР	Port to enable "Remote Mouse" functionality	
20123	ТСР	Port to transfer screen image	
20124	UDP	Port to send discovery message (so that the NovoEnterprise unit can be discoverable by laptops/tablets.)	
20125	ТСР	Port to transfer preview image	
20126	ТСР	Port to transfer AV-streaming's command data	
20127	ТСР	Port to transfer AV-streaming's audio data	
20128	ТСР	Port to transfer AV-streaming's video data	

20129	ТСР	Port to transfer voting/polling data
20130	ТСР	Port for video streaming service
20131	ТСР	Port for file transfer service
20141	UDP	Port for device management
20142	UDP	Port for device reporting

To enable successful operations of a NovoEnterprise device, these ports should not be blocked by your network's firewall.

3 Making a Presentation

The NovoEnterprise device supports up to 64 concurrent *participants* across a mix of PC, Chromebook, tablets, and smart phones. To make a presentation, each *participant's* device will need to connect to the NovoEnterprise to join the presentation session. There are four key features that help facilitate smooth collaboration and coordination of presentations using the NovoEnterprise:

- 1) A *participant* list is included with the individuals' roles indicated by clear graphical representation.
- 2) A specific capability is defined for each role.
- 3) Up to 4 *participants* can show their screen simultaneously through a feature called "4-to-1 projection"
- 4) Annotation tools allow *participants* to highlight, draw or make notations on the display screen.

3.1 Presenting with Windows/Mac/Chromebook

Novo Desktop Streamer Windows/MAC/Chromebook versions have similar interfaces and operations, except that the Chromebook version has slightly fewer functionalities compared with the other two due to Chrome OS limitation. Here Windows version *Novo Desktop Streamer* is used to illustrate key operation steps.

Launch Presentation Application

Launch the Novo Desktop Streamer Application by double clicking icon 🗐. Once launched, the Novo

Desktop Streamer will appear as follows.

	- ×
V an	PIN
Nearby Devices	History
중 192.168.43.1 Novo-A5C33	
Reference Address Reference Address	

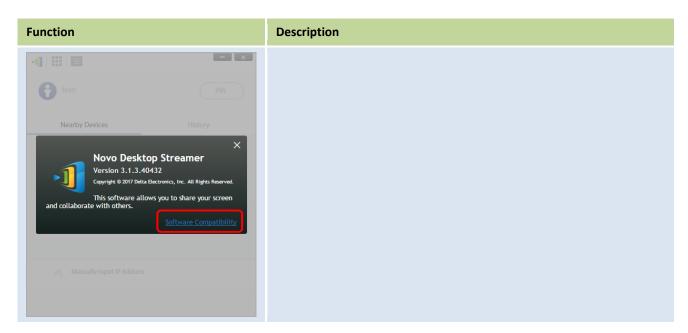
To make a presentation, follow the steps listed below:

- Step 1: Set up session parameters
- Step 2: Connect to your NovoEnterprise device
- Step 3: Make a presentation
- Step 4: Manage the presentation

3.1.1 Step 1: Set up session parameters

Before connecting to your NovoEnterprise device, some session parameters need to be set up.



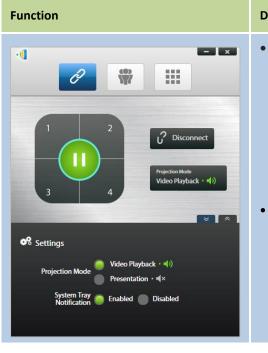


3.1.2 Step 2: Connect to your NovoEnterprise device

Once you have set up session parameters, you are ready to start or join a presentation.

Function	Description
Image: Sector of the sector of th	 Connect to your NovoEnterprise device. 1. If a PIN code is required, enter the PIN code. 2. Select an IP address using one of the following method: Select the IP address from the Nearby Devices list that matches the IP address shown on the NovoEnterprise home screen. Select the previously used IP address from the History list that matches the IP address shown on the NovoEnterprise home screen. Manually enter the IP address shown on the NovoEnterprise home screen in the Manually Input IP Address field and then click on the Connect button 3. If a PIN code is required and a PIN code was not entered in the login screen, you will be prompted to enter the PIN code. If you are the first participant, this will start a presentation session. If you are not the first participant, you will be joining a presentation session.
 Image: second sec	 After a successful connection, you will see the connection tab lit up If you are the first <i>participant</i>, you will see that your desktop is mirrored to NovoEnterprise's screen. Click the left button to access more login options, via the options menu, for other users to connect to this session.





Description

Projection Mode:

Video Playback: Select this option for video-quality image, with synchronized audio. (You might notice some sluggishness in mouse movement due to buffering to ensure smooth video playback.)

Presentation: Select this option for low-latency and fast-response presentation. Audio signal is not transmitted.

NOTE: Video Playback is the default setting.

System Tray Notification:

Select enable to allow Desktop Streamer to notify you via a pop-up alert of any available software updates. The pop-up alert will appear each time you sign on until the software is updated, check the "Never remind me again" box if you only want the pop-up alert to appear once, and not each time you sign on.

Please note that your PC screen resolutions may change to match projector resolution. After disconnecting from the NovoEnterprise device, the original screen resolution will be restored.

3.1.3 Step 3: Make a presentation

Once you have started/joined a presentation session you can make a presentation with the content stored on your PC, local network, or the Internet. Your desktop screen will be mirrored to the NovoEnterprise screen regardless of the applications you are running on your PC. A button pad will appear in the Desktop Streamer's connection page, this button pad gives you quick control of the where your desktop is mirrored on the display:



When you click the green play button in the middle of the button pad your desktop will be mirrored on the full screen of the display.

When you click one of the numbered buttons (#1 - #4) your desktop will be mirrored on one of the four corresponding quadrants of the display. The table below shows how the screen of the display is shared as users join the presentation subsequently.

You can mute the audio from your computer by clicking the mute button and switching to Presentation mode.

NOTE: There may be situations where you want to write, highlight, mark, or record video of your presentation. You could install free software, *NovoScreenote*, to do so. It is available for download at <u>http://www.vivitekcorp.com</u>. After you have installed *NovoScreenote*, you can launch it from your Novo Desktop Streamer. Or you can use the direct annotation tools described in the section *3.6 Direct Annotations*.

Function	Description
Image: Constraint of the second se	Launch NovoScreenote: Click the tab to bring up the toolbar page, then click Launch NovoScreenote.

3.1.4 Step 4: Presentation management

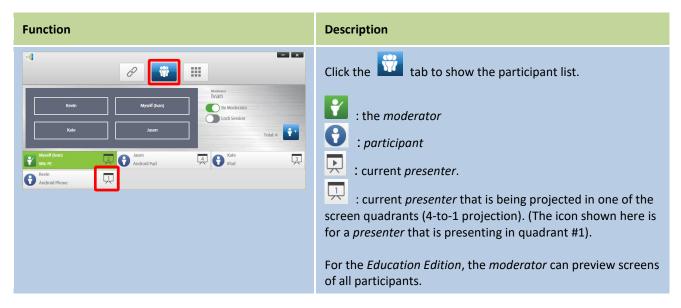
3.1.4.1 Moderator

Function	Description
Kovin Movel foun) Kovin Movel found Kovin Movel found Kovin Movel found Movel found Movel found Movel found Movel found Movel found Movel found	Set the moderator mode: Click the tab and click the Moderator On/Off switch to turn the moderator function on or off The moderator mode is off. The moderator mode is on.
Kevin Myself (Yuan) Kevin Myself (Yuan) Kevin Myself (Yuan) Warder (Yuan) Warder (Yuan) <td>Manage presentation: The moderator has the capability to select participant(s) for projection.</td>	Manage presentation: The moderator has the capability to select participant(s) for projection.

3.1.4.2 Role assignment

There are three roles in a presentation session, the *moderator*, the *presenter*, and the *participant*. By default, the first *participant* assumes the *presenter* role until he hands it over to another participant. Individuals that join subsequently are *participants*.

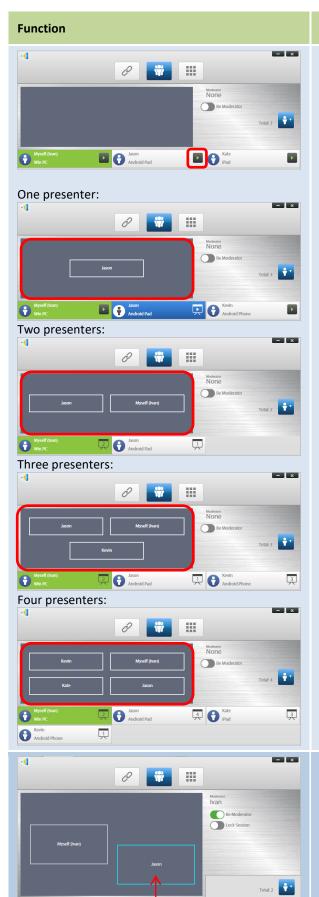
To show all current *participants* who have joined the presentation session, click the 🛱 tab.



Function	Description
Example 1:	Indicate the names of the presenters, the participant list sorting method, and the total number of <i>participants</i> .
Jacon Noderator Verification 2 Statement Verification 2 Statement V	 Sorting in the participant list is sorted by participants' name is corted by the "join" time (most recent on top).
Example 2:	Toggle between 💟 or 🕙 to change the list sorting method.
Myself (vorr) Myself (Example 1: Kevin is the only <i>presenter</i>. The participant list is sorted by participants' name. There are currently 2 <i>participants</i>. Example 2: Jason and Ivan are 2 <i>presenters</i>. The participant list is sorted by the "join" time. And there are currently 2 <i>participants</i>.

3.1.4.3 Multi-screen projection, withdraw projection, and remove a participant

Function	Description
Mysel (krew) Win K Mysel (krew) Mysel (kr	Full-Screen Projection Click the tab to list all <i>participants</i> . If you want to promote one <i>participant</i> to be a presenter, click on the <i>participant's</i> icon. A bigger icon window pops up, where you can click the center button to pass presentation role to that <i>participant</i> .
Would you like to be the presenter? 22 No Yes	 When a <i>participant</i> is asked to be a <i>presenter</i>, a dialog box will appear on the <i>participant</i>'s screen. The <i>participant</i> has 23 seconds to respond. For Education Edition, this dialog box will not appear. In the dialog box, we see that Jason has received a request to assume the <i>presenter</i> role. After Jason clicks Yes to accept being a <i>presenter</i>, Jason's screen will appear in one of the screen quadrants.
Moderator Total 3 Moderator Total 3 Moderator Total 3 Moderator Total 3 Moderator Total 3 Moderator Total 3 Moderator Moderator Total 3 Moderator Moderator Total 3 Moderator Moderator Moderator Total 3 Moderator Moderat	Multi-screen Projection: Click the tab to view the <i>participant</i> list.



Andro

Þ

Description

1. Move cursor over to highlight *participant* Jason.

2. Click on the *participant's*

icon and then click a

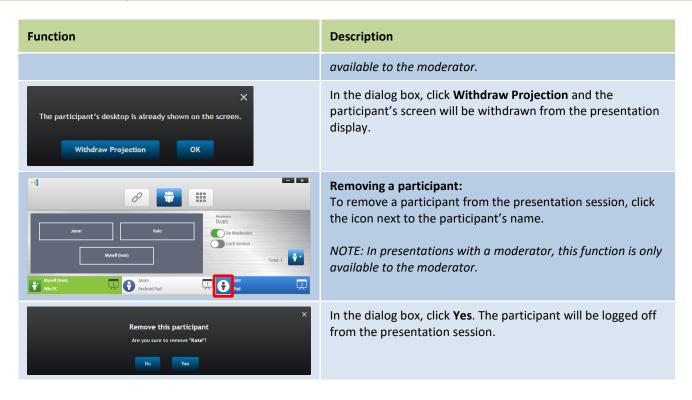
numbered box ³ to assign the *presenter* to be projected at the corresponding screen quadrant. The user name will be shown in the quadrant his or her device has been assigned to on the display.

3. When less than 4 participants are assigned as presenters, the NovoEnterprise will display their screens in a layout based on the number of presenters.

NOTE: The images to the left display the different layouts of the quadrant.

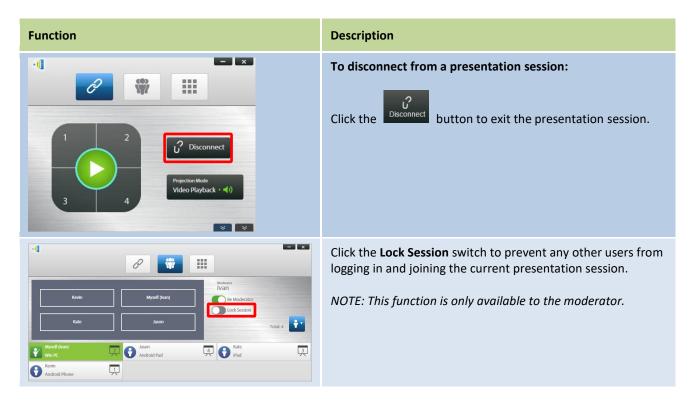
You are also allowed to assign a *participant* to be projected by directly dragging the participant into the quadrant window.





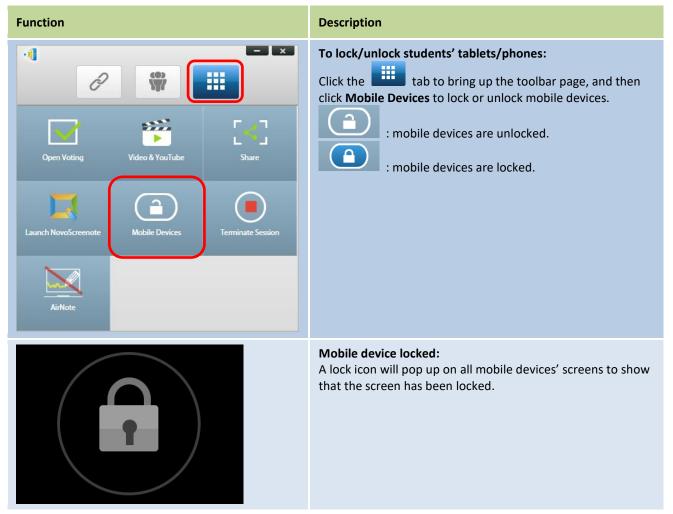
3.1.4.4 Pause, resume, disconnect and lock session

Function	Description
Image: state	To pause/resume a presentation: Click the tab to bring up the presentation control page.
 × ×	Pausing and resuming a presentation: Move your mouse cursor to hover on the presentation button. Toggle between and is to pause and resume a presentation respectively.



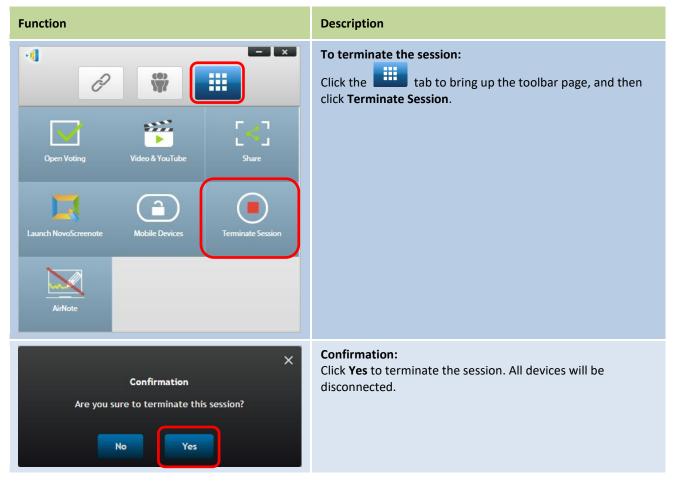
3.1.4.5 Lock/Unlock students' tablets/phones (Education Edition only)

This feature allows the moderator to lock down students' tablets or phones. This feature is only available in the *Education Edition*.



3.1.4.6 Terminate session (Education Edition only)

This feature allows the moderator to terminate a session. This feature is only available in the *Education Edition*.



3.2 Presenting with Android/iOS Devices

NovoPresenter App has similar functionalities as Desktop Streamer software. It is available for both for iOS and Android devices. Here an iPad is used as an example to illustrate its key functions.

Launch Presentation Application

Launch the *NovoPresenter* application by tapping on the *NovoPresenter* App icon **1** on your iPad.

To make a presentation, follow the steps below:

- Step 1: Connect to your NovoEnterprise device
- Step 2: Make a presentation
- Step 3: Manage the presentation

3.2.1 Step 1: Connect to your NovoEnterprise device

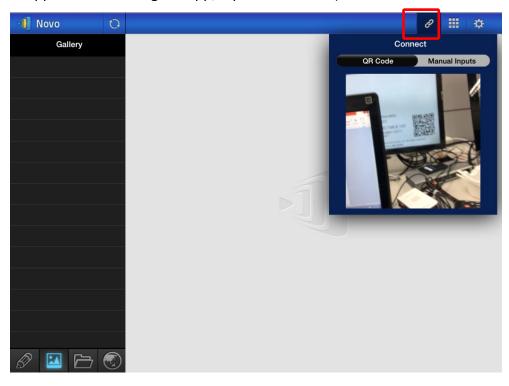
There are two ways to connect to your NovoEnterprise device:

- 1. Connect to your NovoEnterprise device automatically via QR code.
- 2. Connect to your NovoEnterprise device manually.

3.2.1.1 Connect via QR Code

The easiest way to connect to your NovoEnterprise is to use the QR-code scan feature in

NovoPresenter App. After launching the app, tap the *lab* tab (as seen in the screenshot below).

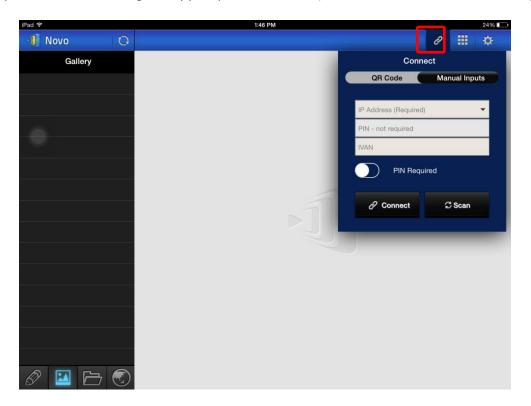


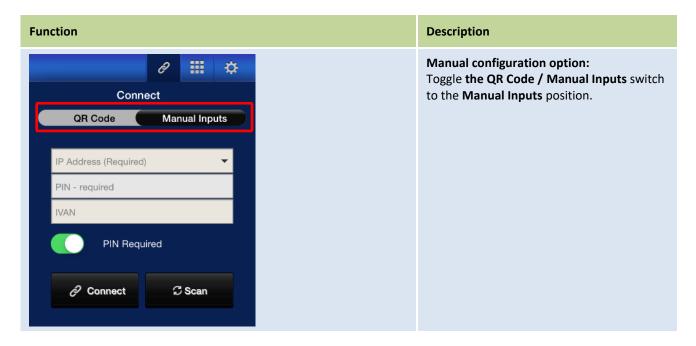
Function	Description
Connect QR Code Manual Inputs Connect QR Code Care Area	 Connect via QR Code: The QR Code / Manual Inputs switch will be in the QR Code position by default (if not, just tap the switch once). Aim your tablet's camera at the QR code. If the network connection is set up properly, <i>NovoPresenter</i> will automatically login to your NovoEnterprise. Should automatic login fail, you may check for your network connection or try manual login. See Section 3.2.1.2.
Jason, You are connected. IP 192.168.43.1 PIN 9882 ON	 Successful Connection: After NovoPresenter is connected successfully to your NovoEnterprise, the connection tab will become lit up If you are the first participant, you will see that your iPad screen is mirrored to NovoEnterprise's screen. You can turn on/off the PIN switch to enable/disable the use of the PIN code for the presentation session.
Novo Priv 2548 pr 192.168.43.1 Kate Jason None Moderator Ivan Kevin Be Moderator Total: 4 Myself (Kate) I Nan Pad Jacon Total: 4 Kevin Que Phone	 View participants list: You can tap the importicipant list. Example: There are a total of four participants in the presentation group shown at left. Ivan, Jason, Kate, and Kevin are assigned to be the four presenters.

3.2.1.2 Connect via Manual Input

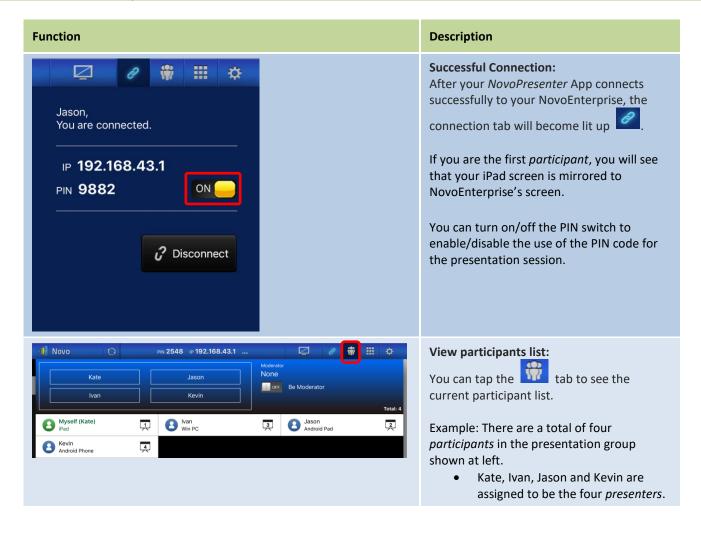
Use this method if you need to configure some login information before connecting to

NovoEnterprise. After launching the app, tap the *lab* tab (as seen in the screenshot below).





Function	Description
Connect CR Code Manual Inputs 192.168.43.1 PIN - not required IVAN PIN Required Connect C Scan	 IP Address: Manually enter the IP address shown on your NovoEnterprise home screen, or select an entry from the drop down menu that matches the IP address shown on your NovoEnterprise home screen. You can tap the Scan button to scan the IP addresses of all available NovoEnterprises within the same subnet. Select the drop- down menu to see the available NovoEnterprises within your area. Example: <u>192.168.43.1</u>. NOTE: For NovoEnterprise devices that have the device name and IP address bound via the DNS mapping procedure, you may also enter the NovoEnterprise's device name in this field. See 5.2 DNS Mapping for more information.
PIN PIN Required PIN Required	 PIN: If a PIN code is required to connect to the NovoEnterprise, slide the PIN Required switch to the ON position and enter the PIN shown on the NovoEnterprise home screen. If the PIN code is not required, slide the PIN Required switch to the OFF position.
Your Name	Your Name: (Optional) Manually enter a name for this tablet to be identified by in this presentation session. NOTE: If a name is not entered in this field, your iPad's default will be used.
Connect QR Code Manual Inputs 192.168.43.1 PIN - not required IVAN PIN Required VAN Connect C Scan	 Make Connection: Tap the Connect button. If you are the first participant, this will start a presentation session on your NovoEnterprise. If you are not the first participant, you will be joining a presentation session.



3.2.2 Step 2: Make a presentation

Once you have started/joined a presentation session, you can present the content stored on your iPad, local network, or the Internet. There are four tabs at the bottom left corner of the NovoPresenter home screen:



MyNotes – create and share screen notes



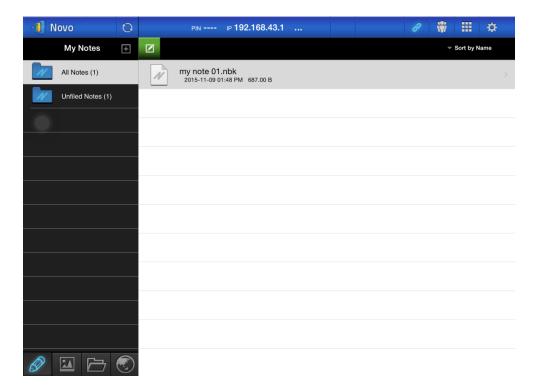
Images/videos stored on your iPad

🗁 : Documents – browse and show documents stored on your iPad



💿 : Web – browse the Internet

3.2.2.1 My Notes

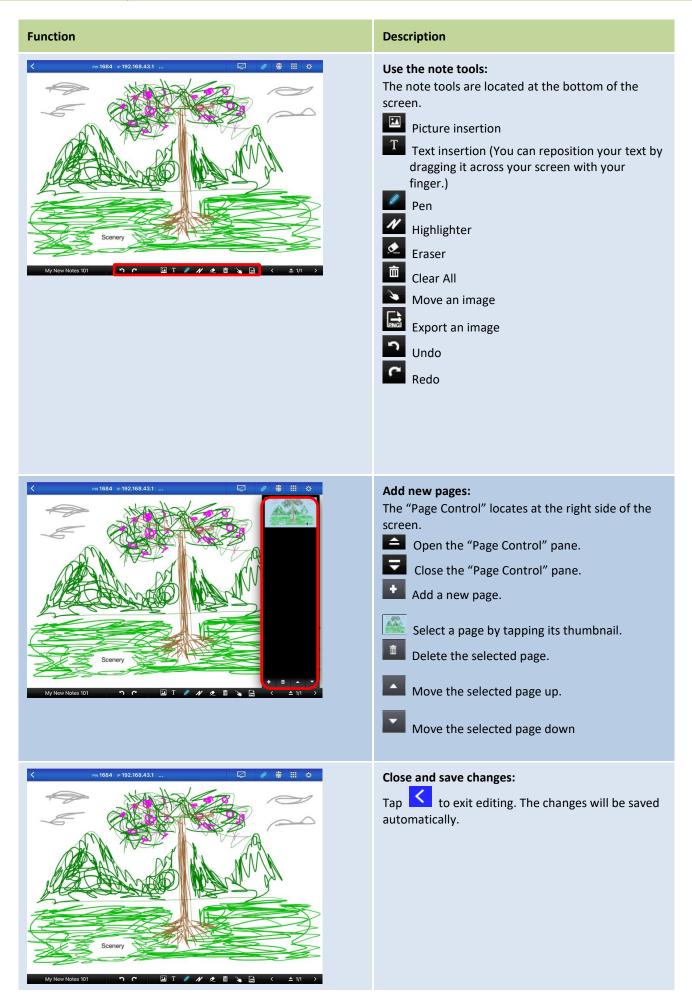


Create and share custom screen notes

This is a virtual whiteboard that allows tablet users to create, edit and display.

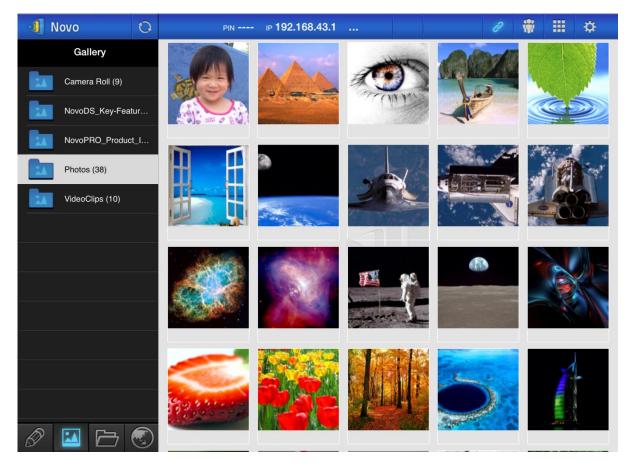
Function	Description
Novo PR IP 192.188.43.1 IP	Launch My Notes: Tap
Image: Novo Image: Novo	Create a new note: Tap at the top of the screen.
Add Note Please enter its name: Cancel Ok	Enter a note name: Type a name for your note in the "Add Note" dialog box and tap Ok .
✓ mvi 1884 # 192.168.43.1 …	Start making a note: A blank note is ready.

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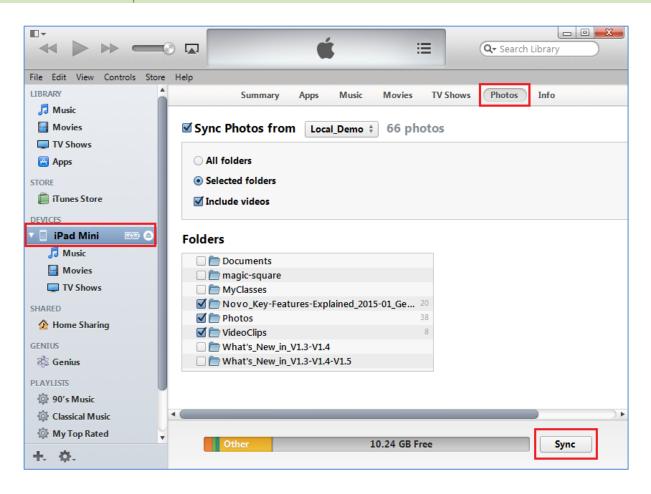
Function	Description
Novo PIN IP 192.168.43. My Notes Image: Comparison of the state of the s	Organize your notes with Subject folders Tap this icon to add a subject (folder). When the "Add Subject" dialog box appears, enter the name for the new subject.
Novo Pix IP 192.168.43.1 My Notes Image: Constraint of the second sec	To move a note under a subject, long press the note until a popup menu appears. Then tap button.
Move To Subject: Image: Dufiled Notes (2) Image: test (0) test (0)	When the "Move to" window pops up, select a subject (folder) and then tap "Ok".
Novo Image: Constraint of the sector of	The chosen file has been moved to the selected subject (folder).

3.2.2.2 Gallery



To import images/videos to an iPad, you can follow the steps described below.

- (1) Connect your iPad to your computer.
- (2) In iTunes, select your device ("iPad Mini" in this case), and tap the Photos button at the center-top area.
- (3) Select the folders we want to sync' the photos/videos from.
 - Please check "Include videos" if you want to sync' videos to your iPad
- (4) Tap "Sync" to start synchronization process.



3.2.2.3 Documents (Local Storage)

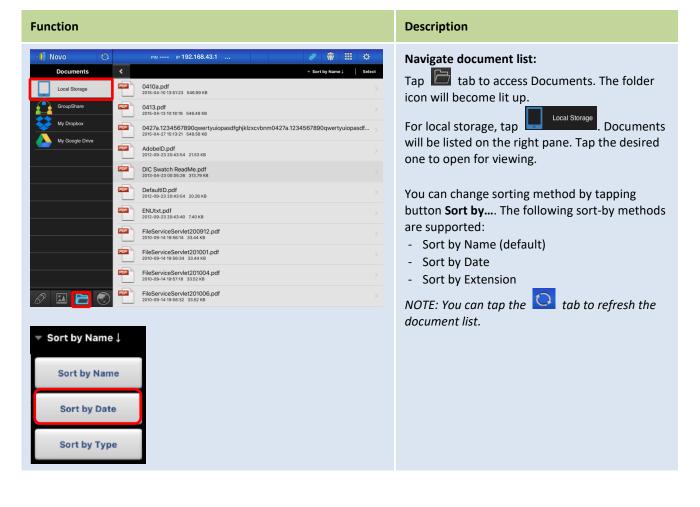
1 Novo	PIN IP 192.168.43.1	e 🛊 🏼 🜣
Documents	<	✓ Sort by Name
Local Storage	.aide	
GroupShare	.estrongs	
My Dropbox	Alarms	
My Google Drive	Android	
	Арр	
	AppProjects	
	backups	
	DCIM	
Ø 🖬 🖻	Download	

To import images/videos to an iPad, you can follow the steps described below.

- (1) Connect your iPad to your computer.
- (2) In iTunes, select your device ("iPad Mini" in this case), and tap the Apps button at the centertop area.
- (3) Below File Sharing, select NovoPresenter from the Apps list.
 - Then you can specify the files for transfer by either tapping button "Add File..." or dragging files into the Document list.
 - If you want to delete existing files, highlight them and press "Delete" button on the keyboard.

(4) Tap "Sync" to start transferring the selected files.

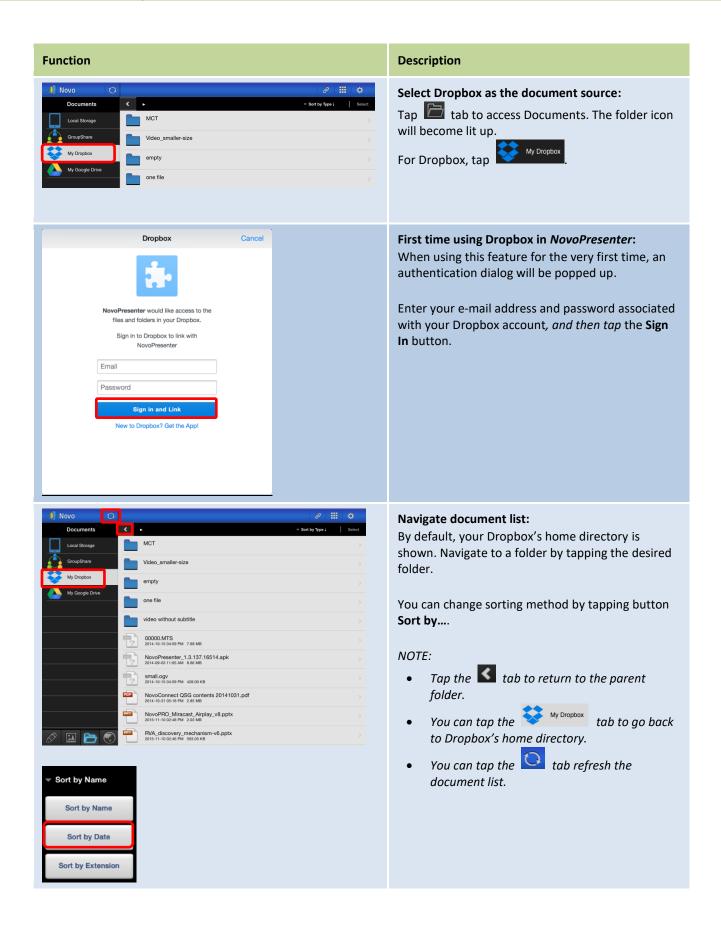


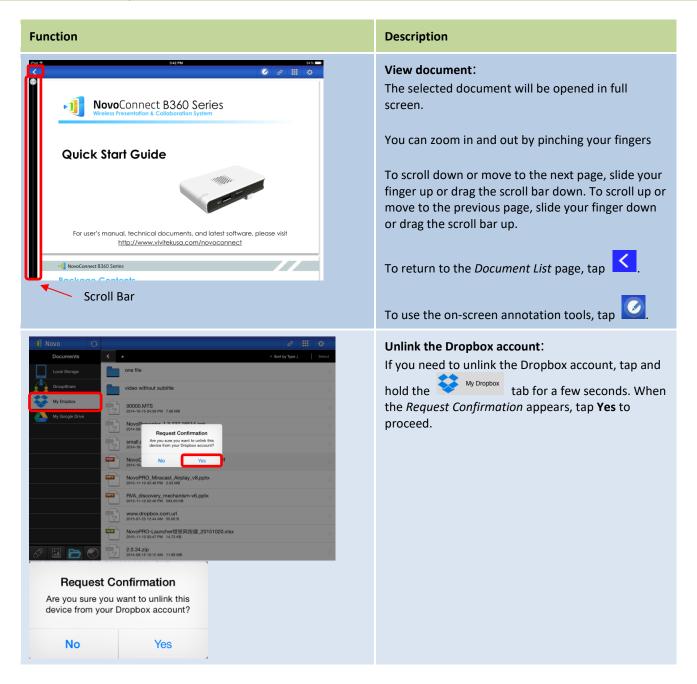


Function					Description
File: Mix2.db	Student Pataicipation 28:5714%		Consot aswer: Ratio 52.9412%	Ø Ⅲ ↔ Error 47.0588% Hot Submitted 71.4286%	View documents: The selected document will be opened in full screen. You can zoom in and out by pinching your fingers.
Name	Thumb-up/Thumb-down	True/False	Multiple-choice	Open-ended	
± 4	0/0	1/2	3/4	1/1	To scroll down or move to the next page, slide
ann	0/0	1/2	3/4	1/1	your finger up or drag the scroll bar down. To
2ESMLD35RC5KCBK	0/0	0/2	0/4	0/1	
Del	0/0	0/2	0/4	0/1	scroll up or move to the previous page, slide
SQA	0/0	0/2	0/4	0/1	your finger down or drag the scroll bar up.
teacher	0/0	0/2	0/4	0/1	
789	0/0	2/2	1/4	1/1	
123	0/0	2/2	1/4	1/1	To voture to the Decument List page top
888	0/0	2/2	1/4	1/1	To return to the <i>Document List</i> page, tap 1 .
456	0/0	0/2	0/4	0/1	
bbb	0/0	0/2	0/4	0/1	
↑ Scroll Bar					To use the on-screen annotation tools, tap 🤷.

3.2.2.4 Documents (Dropbox)

📲 Novo	0			Ø		\$
Documents		<	► ~!	Sort by Type	↓	Select
Local Storage			МСТ			
GroupShare			Video_smaller-size			
My Dropbox			empty			
My Google Drive			one file			
			video without subtitle			
		?	00000.MTS 2014-10-15 04:59 PM 7.68 MB			
		?	NovoPresenter_1.3.137.16514.apk 2014-09-03 11:05 AM 8.66 MB			
		?	small.ogv 2014-10-15 04:59 PM 428.00 KB			
		PDF	NovoConnect QSG contents 20141031.pdf 2014-10-31 05:18 PM 2.85 MB			
		PPT	NovoPRO_Miracast_Airplay_v8.pptx 2015-11-10 02:48 PM 2.03 MB			
Ø 🖬 🗁		PPT	RVA_discovery_mechanism-v6.pptx 2015-11-10 02:46 PM 593.05 KB			





3.2.2.5 Web

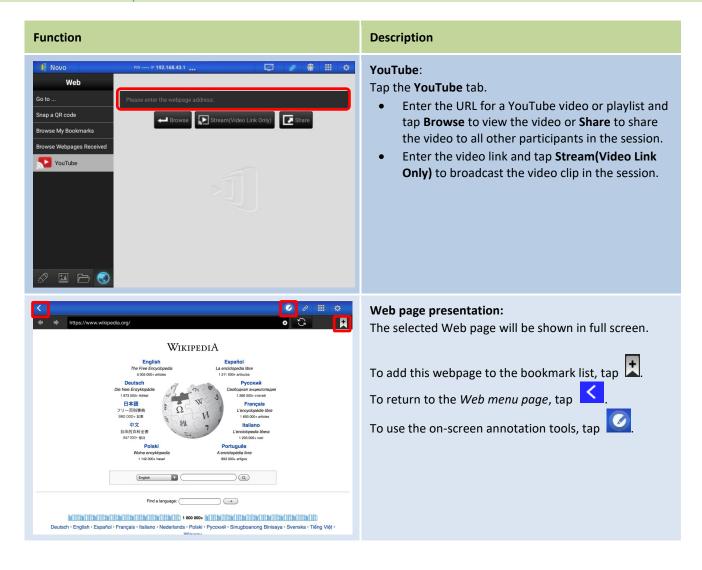
You can open any website for sharing with *NovoPresenter*. An example screen is shown below.



Milei Milei

Function	Description
Novo PN P 192.168.4.21 Web Go to Snap a QR code Browse My Bookmarks Browse Webpages Received YouTube Image: Contract of the second seco	 Web: Tap the Internet tab one of the five options to access a Web page: Go to (enter a URL) Snap a QR Code Browse My Bookmarks (Web site bookmarks) Browse Webpages Received YouTube
Novo PH IP 192.168.4.31 Web Go to Shap a QR code Browse My Bookmarks Browse Webpages Received TouTube Image: Contract Cont	 Go to: Tap the Go to tab. Enter the URL for a website and tap Browse to browse the webpage or Share to share the webpage to all other participants in the session. Enter the video link and tap Stream(Video Link Only) to broadcast a streamable video clip in the session.

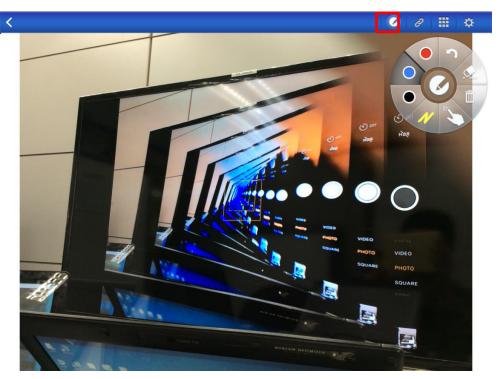
Function	Description
Novo PN #F 192.148.43.1 Web Go to Shipp a QR code Please face your camera to the OR code for scanning. Browse My Bookmarks Please face your camera to the OR code for scanning. Image: Contract of the original intervence of the oris of the oris of the original intervence of the origina intervenc	 Snap a QR code: Tap button Snap QR Code. Aim your iPad's camera at the desired QR code.
Novo Me wee 1922.148.4.31 Web My Bookmarks Go to Www.google.com Shap a OR code Mo Browsee Webpages Received Image: Common state of the state of	 Browse My Bookmarks: Tap the Browse My Bookmarks tab. From the bookmark list at the right, tap the desired one to open the corresponding webpage. Tap and hold a bookmark for two seconds to edit or delete the bookmark. NOTE: The bookmark list may initially be empty. You can add a webpage to the bookmark list while browsing.
Novo PN + 192.168.43.1, Image: Constraint of the second of the	 Browse Webpages Received: Tap the Browse Webpages Received tab. From the Browse Webpages Received menu of webpages received from the other participants, tap the desired link to open the corresponding webpage. Tap and hold an entry for two seconds to delete or share the entry.



3.2.2.6 Annotation

NovoPresenter has a built-in drawing tool for on-screen annotation, such as handwriting and

highlighting. You can bring up this tool by tapping *(C)*, as shown below.





3.2.2.7 Screenshot

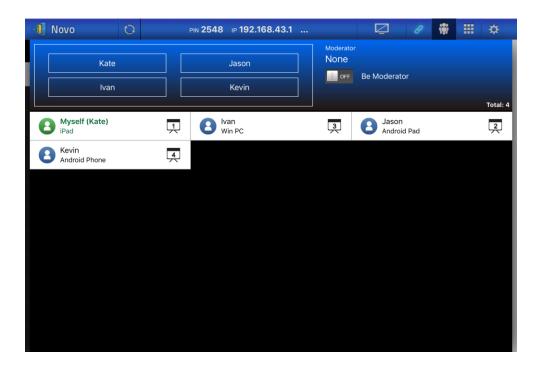
This feature allows users to take tablet screenshots.

🗐 Novo 🖸	PIN 2372 IP 192.168.43.1		8	# ¢
Documents	<			
Local Storage		\square		[<]
GroupShare		Open Voting	Screenshot	Send Screen
My Dropbox				
My Google Drive		Email	AirNote	
My OneDrive				
				_
1				

Function			Description	
	reenshot	₩ 🌣 [<] Send Screen		Take a screenshot: Tap the Screenshot button and the current screenshot will be saved in local storage.
Email Ai	irNote			

3.2.3 Step 3: Presentation management

You can manage the presentation through the *participants* panel, as shown in the figure below.



3.2.3.1 Moderator

Function			Description
Novo Kate Ivan Myself (Kate) iPad Kevin Android Phone	Kevin Van Win PC	or Be Moderator Total: 4	Set the moderator mode: Tap the tab and tap the Moderator On/Off switch to set the moderator mode. The moderator mode is off. The moderator mode is on.
Novo Myself (Kate) iPad Nan Win PC	PIN 6013 IP 192.168.43.1 Moderate Mysel I I I I I I I I I I I I I I I I I I I	Be Moderator	Manage presentation: The moderator has the capability to select participant(s) for projection.

3.2.3.2 Role assignment

There are three roles in a presentation session, the *moderator*, the *presenter*, and the *participant*.

By default, the first *participant* assumes the *presenter* role until he hands it over to another participant. Individuals that join subsequently are participants.

To show all current *participants* who have joined the presentation session, tap the 🙀 tab.

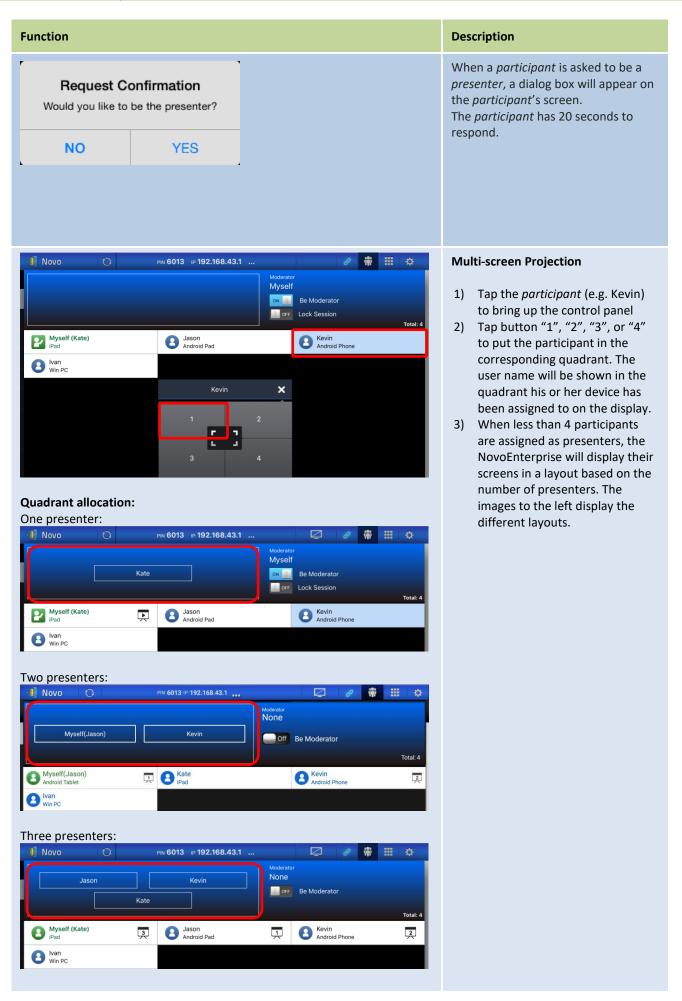


Function		Description
Example 1:	pin 6013 ip 192.168.43.1 🔽 🖉 🏶 🏭 🔅	Total <i>participants</i> and current presenter(s).
	Kate Moderator Myself Miself Be Moderator	Example 1: Currently there are 4 <i>participants</i> and Kate is the only <i>presenter</i> in full-screen projectio
Myself (Kate) iPad	Jason Kevin Android Pad Android Phone	presenter in run-screen projectio
Wan Win PC Example 2:		Example 2: Currently there are 4 <i>participants</i> and they are the 4 <i>presenters</i> in 4-to-1 projection.
Novo Q	pin 6013 ip 192.168.43.1 🔽 🥒 🏶 🏢 🔅	
Ivan Kevin	Jason Kate	
Myself (Kate) iPad	Tothe Solution PC	
Android Phone	3	

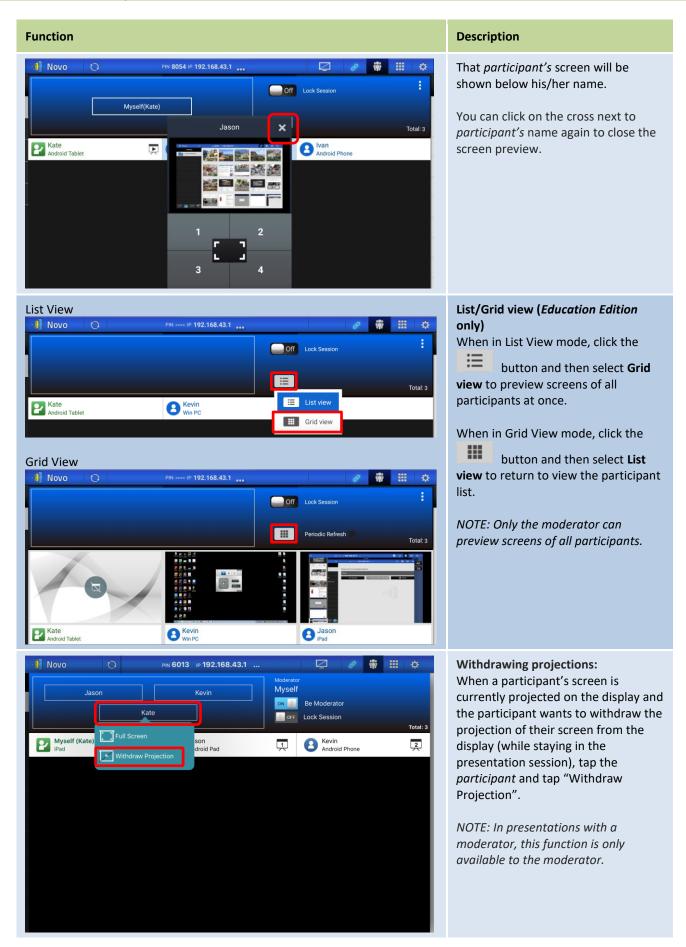
4 on.

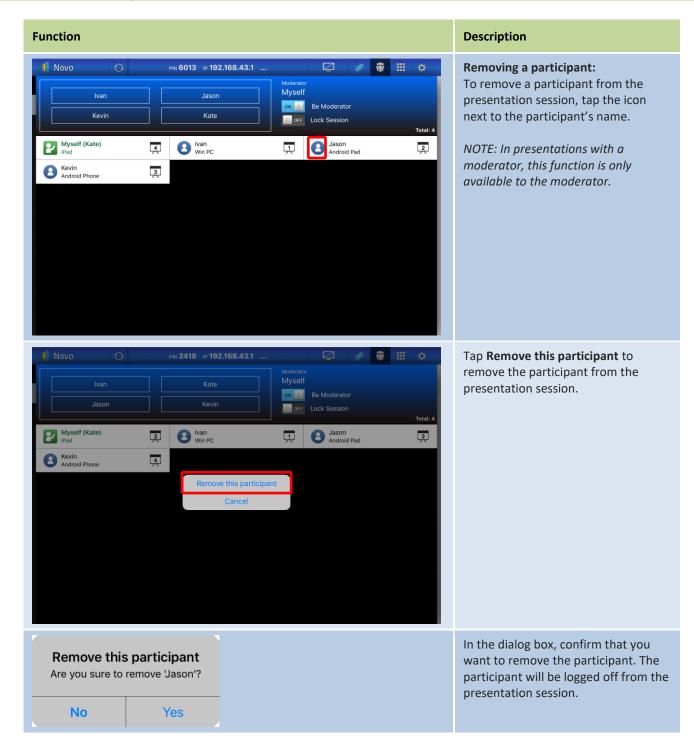
3.2.3.3 Role change, multi-screen, withdraw projection, and remove a user

Function	Description
On the current moderator's screen:	Role change: transfer the moderator role The current moderator: Tap the tab and tap the Switch to turn off the moderator mode and withdraw from the moderator role. The <i>participant</i> assigned as the next moderator: Tap the tab and tap the Switch to turn on the moderator mode.
Novo Prix 6013 IP 192.168.43.1 Moderator Myself Pad Myself (Kate) IPad Nan Win PC Kevin Kevin Xandroid Phone Myself (Kate) IPad Myself (Ka	 Full-Screen Projection 1) Tap the <i>participant</i> (e.g. Kevin) to bring up the control panel 2) Tap to set Kevin as the full-screen presenter.



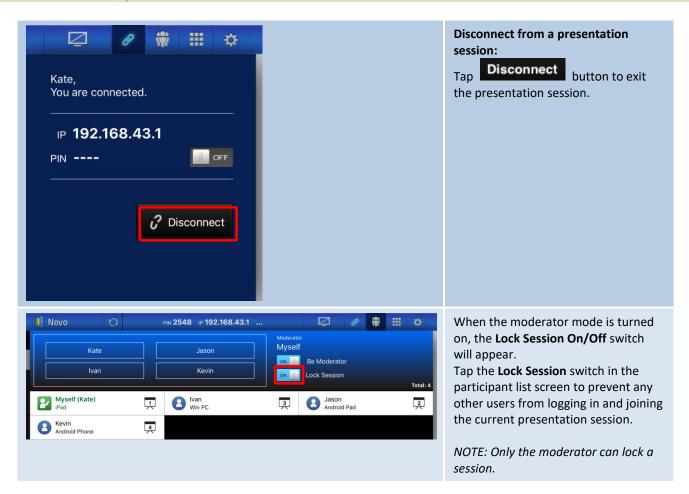
Function	Description
Four presenters:	
Image: Solution of the second sec	You are also allowed to assign a <i>participant</i> to be projected by directly dragging the participant into the quadrant window from the participant list.
Novo Priv 6665 IP 192.168.43.1 Myself(Jason) Myself(Jason) Android Tablet Novo Priv 6665 IP 192.168.43.1 Myself(Jason) Myself(Jason) Novo Priv 6665 IP 192.168.43.1 Myself(Jason)	You are allowed to move the presenters to different positions in the quadrant by dragging and dropping the presenters.
Novo PHN 8054 IP 192.168.43.1 Myself(Kate) Kate Android Tablet Novo PHN 8054 IP 192.168.43.1 Myself(Kate) E Novo Myself(Kate) E Novo PHN 8054 IP 192.168.43.1 Myself(Kate) E Novo Myself(Kate) E Novo Myself(Kate) E Novo Myself(Kate) E Novo Myself(Kate) E Novo Myself(Kate) E Novo Myself(Kate) E Novo Novo Myself(Kate) E Novo	 Screen preview (Education Edition only) 1. Click the initial tab to view the participant list. 2. Click on the participant's name. NOTE: Only the moderator can preview screens of all participants.





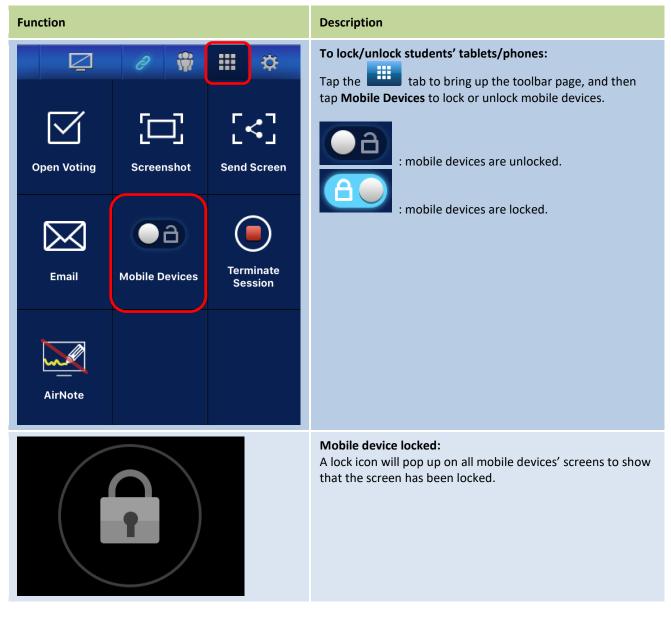
3.2.3.4 Disconnect and lock session

 Function
 Description



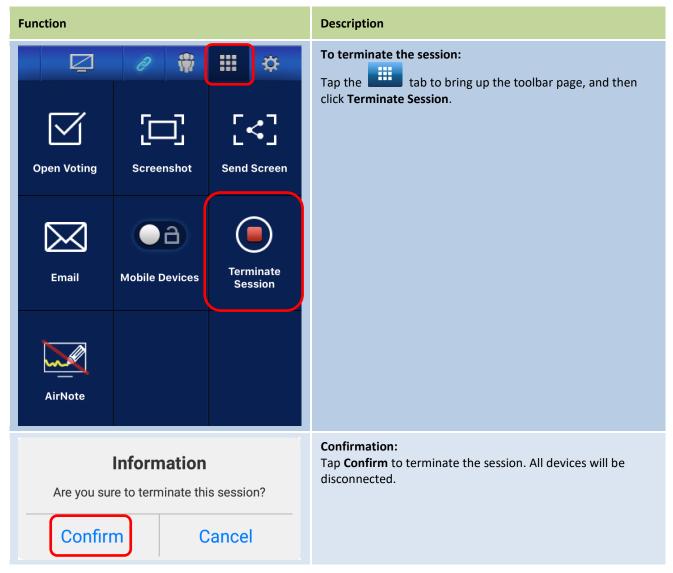
3.2.3.5 Lock/Unlock students' tablets/phones (Education Edition only)

This feature allows the moderator to lock down students' tablets or phones. This feature is only available in the *Education Edition*.

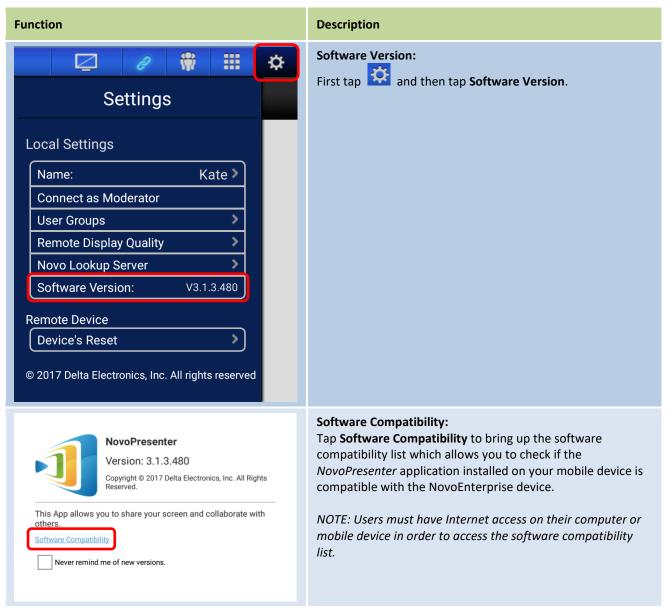


3.2.3.6 Terminate Session (Education Edition only)

This feature allows the moderator to terminate a session. This feature is only available in the *Education Edition*.

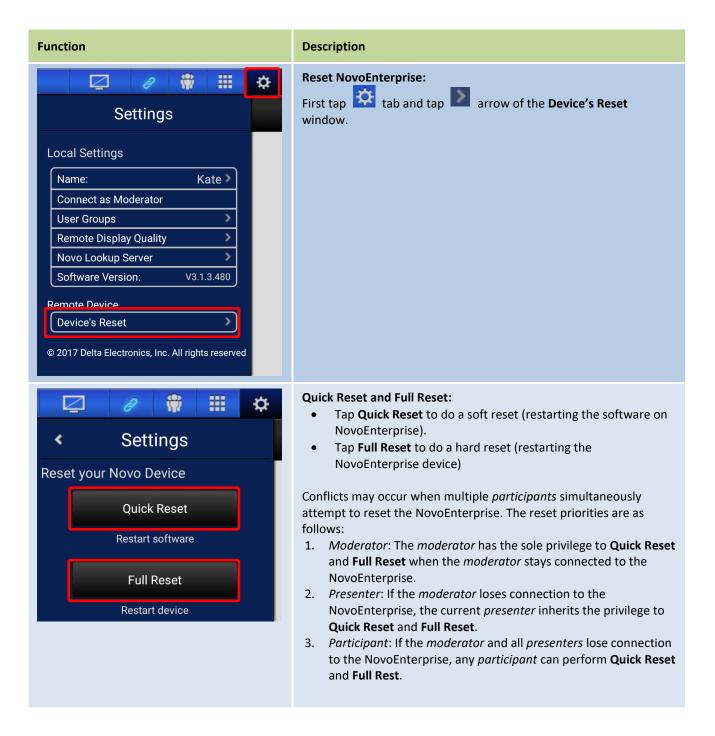


3.2.3.7 Software Compatibility



3.2.3.8 Reset

In case you run into cases where NovoEnterprise may have weird behavior or lock up, you could reset NovoEnterprise from your iPad or Android devices.



3.3 Session management via NovoEnterprise Home Screen

The NovoEnterprise's main app, the *Remote Viewer*, allows you to manage a session from the NovoEnterprise home screen without having to join the presentation session. You can manage a

session via the NovoEnterprise home screen by using the supplied remote control, a mouse, or a touchscreen display.

NOTE:

- If you want to manage a session using a touchscreen display, connect the touch port of the touchscreen display to the NovoEnterprise's Type A USB port.
- The mouse button on the remote control functions like the left click of a mouse. You can point the remote control at the desired items or functions then press the mouse button to select it.

3.3.1 Step 1: Bring up the participant list



Function	Description
Total: 4 Kate Kevin Jason Ivan	Participants Select the individual participant to bring up more projection options (Section 3.3.2.3).
	 Participant List Control Buttons Tap or click the button to view the next page of the participant list. Tap or click the button to view the previous page of the participant list. Tap or click the button to close the participant list.

3.3.2 Step 2: Manage the presentation

3.3.2.1 More Options

Function	Description
Total: 4 Kate Lock Session Terminate Session Session Info	 More Options Tap or click on More Options to bring up more option items. Lock Session: Prevents any other users from logging in and joining the current presentation session. Terminate Session: Disconnects all devices from the current session. Session Info: Brings up the session information for other users to connect to this session. NOTE: Session Info appears only when at least one participant's screen is projected (Section 3.3.2.2).

3.3.2.2 Bringing up Session Info

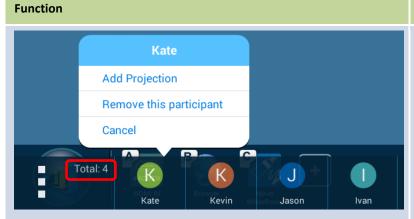
You are allowed to bring up the session information via the direct annotation tool (Section 3.6) to let other users to connect to the session while the presenters are projecting their screens to NovoEnterprise.

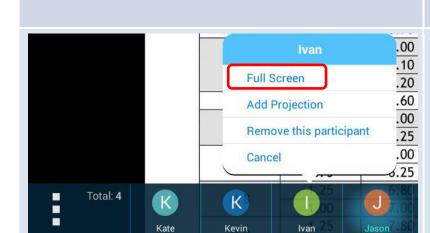
Function							Description
c	No Thread (clearance Drill Sizes) Sizes Thread (clearance) Mathematical Sizes Thread (clearance) M1.5 0.35 M1.6 0.35 M1.6 0.35 M1.6 0.35 M1.6 0.35 M2 0.46 M2.2 0.46 M3 0.80 M4 0.75 M.5 0.60 M.5 0.60 M.5 0.60 M.5 0.60 M.5 0.60 M.5 1.00 M.5 1.00 M.7 1.00 M.7 1.00 M.7 1.00 M.7 1.00 M.7 1.00 M.8 1.23		Construction Construction Drill Soft Three of the second	Cleara Close Fi Close Fi Trill Size Close fi Close	Image: Provide and the system Image: Provide and the system Standard Fit Closest Drill Size American 1.65 52 1.75 50 2.00 5/64 2.20 44 2.40 41 2.75 7/64 3.30 30 3.85 24 4.40 17 5.00 9 5.50 7/32 6.10 8 6.60 G 7.70 N 8.80 5		During the presentation: Click (if using a mouse) or tap (if using a touchscreen display) either one of the arrow buttons on the side of the presentation.
C	Metric Tap & Sizes Metric Clearance Drill Sizes Sizes simmer Pirted mm M1.5 0.35 M1.6 0.35 M1.6 0.35 M1.6 0.35 M1.8 0.35 M2 0.45 M3 0.60 M4.5 0.75 M4.5 0.73 M5 0.60 M4.5 0.73 M5 0.60 M5.5 0.60 0.77 0.70 M5 0.80 M7 1.00 M8 1.23 M8 1.23		P 192.168.43.1 Drill Drill Drill Drill Drill Drill Site Conset for Sters, Stanles, Carlos Drill Site Conset Drill Site	Close Fit Close Fit Close Fit Close Fit Close Fit Close Fit Close Fit Close Fit Close Fit Drill Sup Transformation Drill Sup Close Fit Drill Sup Transformation Drill Sup Drill	Image: Close of the second s	0	A set of annotation tools will appear.
							Click on the button to bring up the participant list.
	DVO Partial (mm) Partial participant M13 0.35 M13 0.35 M14 0.45 M13 0.40 M2.2 0.45 M3 0.40 M2.2 0.45 M3 0.40 M2.2 0.45 M3 0.40 M4 0.70 M4 0.70 M3 0.80 M5.5 0.60 M5.5 0.70 M6 0.75 M8 1.03 M9 1.03 1.30 1.30 M9 1.33 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30	Pill Size (mm) Closest (merican (merican) 1.15 56 1.25 55 1.46 33 1.75 40 2.05 46 2.40 41 2.50 30 3.30 30 3.75 2.5 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 20 4.00 10 5.00 8 6.23 D 6.80 H 7.00 J 7.00 N 8.00 1.02 8.00 1.02 <td>Clock.43.1 Drill Stee (mmn) Choset Drill 1.25 Choset Drill 1.25 1.35 35 1.55 37.6 1.70 55 1.70 50 2.20 44 2.60 37 2.70 36 3.50 28 3.50 28 4.40 17 4.40 16 5.40 4 5.50 F 7.20 J 7.40 L 8.20 P 8.40 21/64 9.00 T 7.40 L 8.20 P 8.40 21/64</td> <td>Image: Consett (mm) Consett (mm) 1.60 17.0 51 1.70 51 75 1.70 51 73 2.10 45 2.65 2.65 37 3.70 2.70 4.20 19 4.75 13 5.25 5.80 1 6.30 6.30 E 7.40 8.40 Q 9.50 9.50 3.78 10.50</td> <td>Ø ₩ III Cleaset American (mm) Cleaset American 1.65 52 52 52 1.75 50 7/34 30 2.20 44 2.40 41 2.75 7/64 30 30 3.85 24 4.40 17 5.60 7/32 6.10 8 6.40 6 7.70 N 8.80 5 9.900 25/64 11.00 7/16 7/16</td> <td></td> <td>The participant list appears.</td>	Clock.43.1 Drill Stee (mmn) Choset Drill 1.25 Choset Drill 1.25 1.35 35 1.55 37.6 1.70 55 1.70 50 2.20 44 2.60 37 2.70 36 3.50 28 3.50 28 4.40 17 4.40 16 5.40 4 5.50 F 7.20 J 7.40 L 8.20 P 8.40 21/64 9.00 T 7.40 L 8.20 P 8.40 21/64	Image: Consett (mm) Consett (mm) 1.60 17.0 51 1.70 51 75 1.70 51 73 2.10 45 2.65 2.65 37 3.70 2.70 4.20 19 4.75 13 5.25 5.80 1 6.30 6.30 E 7.40 8.40 Q 9.50 9.50 3.78 10.50	Ø ₩ III Cleaset American (mm) Cleaset American 1.65 52 52 52 1.75 50 7/34 30 2.20 44 2.40 41 2.75 7/64 30 30 3.85 24 4.40 17 5.60 7/32 6.10 8 6.40 6 7.70 N 8.80 5 9.900 25/64 11.00 7/16 7/16		The participant list appears.

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	M 2	0.40	1.60	52	1.75	50	2.10	45	2.20	44				
	M 2.2 M 2.5	0.45	1.75	50 46	1.90	48 44	2.30	3/32 37	2.40	41 7/64				
	M 3	0.60	2.40	41	2.60	37	3.15	1/8	3.30	30				
	M 3.5	0.50	2.50 2.90	39 32	2.70 3.10	36 31	3.70	27	3.85	24				
	M 4	0.75	3.25	30	3.50	28	4.20	19	4.40	17				
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	M 6	1.00	5.00 5.25	8	5.40 5.50	4 7/32	6.30	E	6.60	G				
	M.7	1.00	6.00	В	6.40	E	7.40	L	7.70	N				
		0.75	6.25 6.80	D	6.50 7.20	F	-	115524						
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	M.9	1.25	7.80 8.00	N	8.20 8.40	P 21/64	9.50	3/8	9.90	25/64				
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r 13 J	Novo Screw Size (mm)	1.00	9.00 7-00 10.30 10.50 10.50	T 11/12 2 N 5569 IP 192 Closest American Drill	9,40	U 27/24 7/16 7/16	11.00 12.40 Drill Size (mm)	Closest American Drill	11.10 12.20 Drill Size (mm)	1347 A.		•	×	
	Novo Screw Size (mm) M1.5	1.00	9.00 1.50 1.53 10.50 10.50 Prill Size (mm) 1.15	T 11/32 2 N 5569 IP 192 Closest American Drill 56	9.40	U 27/25 7/16 7/16 Closest American Drill 55	11.60	Closest American Drill 1/16	13.10 13.10 Drill Size (mm) 1.65	15732 31764		•	×	Click on the Session Info button to b up the session information.
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	Kas Novo Screw Size (mm) M1.5 M1.6 M1.8 M2	1.00 Kove Thread Pitch (mm) 0.35 0.35 0.35 0.45 0.40 0.45	9.00 7.50 10.50 10.50 10.50 10.50 1.15 1.25 1.45 1.55 1.60 1.75	T 1/17 1/17 1/17 2 2 2 2 2 2 2 2 2 2 2 2 2	9.40 9.40	U X 27744 277747 27774 27774 27774 27774 27774 27774 27774 27774 27	11.60 12.60 Drill Size (mm) 1.60 1.90 - 2.10 2.30	Closest American Drill 1/16 51 49 45 3/32	12.10 13.10 Drill Size (mm) 1.65 1.75 2.00 2.20 2.40	Cic Ame D) Novo-3 N 5498 (▼ 3F85E	×	
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	Kee Novo Screw Size (mm) M1.5 M1.6 M1.8 M.2 M2.5 M.3	1.00 Konstant Thread Pitch (mm) 0.35 0.35 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.50	9.00 1.01 0.03 0.03 0.03 0.03 0.03 0.05 0.250 0.250	T 11 13 2 2 Closest American Drill 56 55 53 1/16 52 50 46 41 39	9.40 9.40 9.40 9.40 9.40 9.40 9.40 9.40 9.40 1.09 1.10 0.100 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	U 27/54 27/54 Closest American Drill 55 54 1/16 51 51 51 51 51 51 51 51 36	11.00 12.00 Drill Size (mm) 1.60 1.70 1.70 1.70 2.10 2.10 2.30 2.65 3.15	2 1764 172 Closest American Drill 1/16 51 49 45 3/32 37 1/8	12.10 11.10 Drill Size (mm) 1.65 1.75 2.00 2.20 2.40 2.75 3.30	Cic Ame D PIN	N 5498 @	AIPTKy Password)	×	
.	Krass Novo Screw Size (mm) M1.5 M1.6 M1.8 M.2 M.2.5 M.3	1.00 Key 200 Thread Pitch (mm) 0.35 0.35 0.35 0.45 0.45 0.45 0.60 0.50	9.00 5.00 10.00 Drill Size (mm) 1.15 1.25 1.60 1.75 1.60 1.75 1.60 2.05 2.40 2.90	T 11 12 2 Closest American Drill 56 55 53 1/16 55 50 46 41 39 32	9.40 9.40 9.40 9.10 90 9.10 90 9.11 100 0.11 100	U 2774 2774 2774 2774 2774 2774 2774 277	11.00 12.00 Drill Size (mm) 1.60 1.70 1.90 2.10 2.10 2.30 2.65 3.15 3.70	2 1764 172 Closest American Drill 1/16 51 49 45 3/32 37 1/8 27	Drill Size (rmm) 1.65 1.75 2.00 2.20 2.40 2.75 3.30 3.85	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K Screw Size (mm) M1.5 M1.6 M 1.8 M 2 M 2.2 M 3.5 M 4	1.00 Kee Thread Pitch (mn) 0.35 0.35 0.45 0.40 0.45 0.60 0.50 0.60 0.70	9.00 9.00 9.00 9.00 9.00 0.115 1.25 1.25 1.45 1.55 1.60 1.75 2.05 2.40 2.50 2.90 3.25 3.30	T 11 12 2 2 2 2 2 2 2 2 2 2 2 2 2	9.40 9.40 9.40 9.40 9.10 00 11.100 2.168.43.1 Drill Size (mm) 1.25 1.35 1.70 1.75 1.90 2.20 2.60 2.70 3.50 3.50	U 2734 2734 2734 2734 2734 2734 2734 2734	11.00 12.00 Drill Size (mm) 1.60 1.70 2.10 2.10 2.10 2.65 3.15 3.70 4.20	Closest American Drill 1/16 5 3/32 3/7 1/8 27 19	Control Contro	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	Krass Novo Screw Size (mm) M1.5 M1.6 M1.8 M.2 M.2.5 M.3	1.00 Key 2.0 Thread Pitch (ms) 0.35 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.50 0.50 0.50 0.75 0.75 0.75	9.00 9.00 9.00 9.00 0.15 0.15 0.15 1.25 1.45 1.25 1.45 1.50 1.75 2.05 2.40 2.50 2.40 2.50 3.25 3.37 5.25 3.75	T 1172 2 2 2 2 2 2 2 2 2 2 2 2 2	9.40 2.169.43.1 Drill Size (mm) 1.25 1.35 1.75 1.75 1.75 2.20 2.70 3.50 3.50 3.50	U Closest American Drill 55 54 1/16 51 50 48 44 37 36 31 28 28 28 22	11.00 12.00 Drill Size (mm) 1.60 1.70 1.90 2.10 2.10 2.30 2.65 3.15 3.70	2 1764 172 Closest American Drill 1/16 51 49 45 3/32 37 1/8 27	Drill Size (rmm) 1.65 1.75 2.00 2.20 2.40 2.75 3.30 3.85	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K Screw Size (mm) M1.5 M1.6 M 1.8 M 2 M 2.2 M 3.5 M 4	1.00 Kee Thread Pitch (mn) 0.35 0.35 0.45 0.40 0.45 0.60 0.50 0.60 0.70	9.00 9.00 9.00 9.00 9.00 0.115 1.25 1.25 1.45 1.45 1.45 1.60 1.75 2.05 2.40 2.50 2.90 3.25 3.30	T 11 12 2 2 2 2 2 2 2 2 2 2 2 2 2	9.40 2.168.43.1 Drill Size (mm) 1.25 1.35 1.55 1.70 2.20 2.60 2.70 3.50 3.50 3.50 4.00 4.40	U 2734 2734 2734 2734 2734 2734 2734 2734	11.00 12.00 Drill Size (mm) 1.60 1.70 2.10 2.10 2.10 2.65 3.15 3.70 4.20	Closest American Drill 1/16 5 3/32 3/7 1/8 27 19	Control Contro	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K Novo Screw Size (mm) M1.5 M1.6 M1.7 M2.2 M2.5 M3.5 M4 M4.5 M5	1.00 Kee Thread Pitch (mm) 0.35 0.35 0.45 0.40 0.45 0.40 0.45 0.40 0.45 0.60 0.75 0.70 0.70 0.70 0.70 0.80	9.00 Prill Size (mm) 1.15 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.40 1.75 2.05 2.90 3.25 3.30 3.75 4.00 4.20	T Closest American Drill 56 55 51 1/16 52 50 46 41 39 30 30 25 21 20 19	9.40 2.168.43.1 Drill Size (mm) 1.25 1.35 1.75 1.70 2.20 2.60 2.70 3.10 3.50 3.50 3.50 4.40 4.40	U Closest American Drill 55 54 1/16 51 50 48 44 43 7 36 31 31 28 22 28 22 11/64 17 16	E 10 C C C C C C C C C C C C C C C C C C	Closest American Drill 1/16 51 49 45 3/32 37 1/8 27 19 13 5	Control Contro	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K xars Novo Screw Stze (mm) M1.5 M1.6 M1.8 M2.2 M2.2 M2.2 M3. M3. M4 M4.5 M5 M5.5	1.00 	9.00 Prill Size (mm) 1.15 1.25 1.45 1.45 1.45 1.45 1.45 1.45 2.90 3.25 2.90 3.25 3.30 3.75 4.00 4.10 4.20 4.20 4.20	T 11172 2 Closest 56 55 50 1/16 52 50 46 41 39 32 30 30 30 25 21 20	9.40 2.168.43.1 Drill Size (mm) 1.25 1.35 1.75 1.75 1.70 2.20 2.60 2.70 3.10 3.50 4.40 4.40 4.40 4.50 9.540	U Closest American Drill 55 54 1/16 51 50 48 44 43 7 36 31 31 28 22 11/64 17 16 10 4	L. 60 Drill Size (mm) 1.60 1.70 2.10 2.30 2.65 3.15 3.70 4.20 4.75 5.25 5.80	Closest American Drill 1/16 51 45 3/32 37 1/8 27 19 13 5 1	Control Contro	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K Screw Size (mm) M1.5 M2.2 M2.5 M3 M4.5 M5 M6	1.00 1.00	9.00 2.00 2.00 0.00	T Closest American Drill 56 55 50 46 41 39 30 30 30 30 30 30 30 30 46 41 45 46 41 39 32 21 20 19 44 4 4 4	9.40 2.168.43.1 Drill Size (mm) 1.25 1.70 1.75 1.70 2.20 2.60 2.60 2.70 3.50 3.50 3.50 3.50 4.00 4.40 4.40 4.50 5.50	U Closest American Drill 55 54 1/16 51 50 48 44 44 36 31 28 28 28 22 11/64 17 16 10 4 7/32	Drill Size (mm) 1.60 1.70 2.10 2.30 2.65 3.15 3.70 4.20 4.75 5.25 5.80 6.30	Closest American Drill 1/16 3/32 3/32 37 1/8 27 19 13 5 1 E	Control Contro	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K xars Novo Screw Stze (mm) M1.5 M1.6 M1.8 M2.2 M2.2 M2.2 M3. M3. M4 M4.5 M5 M5.5	1.00 	9.00 Prill Size (mm) 1.15 1.25 1.45 1.45 1.45 1.45 1.45 1.45 2.90 3.25 2.90 3.25 3.30 3.75 4.00 4.10 4.20 4.20 4.20	T Closest American Drill 56 55 53 11/16 55 50 52 50 46 41 39 32 30 30 30 25 21 20 19 14 8	9.40 2.168.43.1 Drill Size (mm) 1.25 1.35 1.75 1.75 1.70 2.20 2.60 2.70 3.10 3.50 4.40 4.40 4.40 4.50 9.540	U Closest American Drill 55 54 1/16 51 50 48 44 43 7 36 31 31 28 22 11/64 17 16 10 4	Line Drill Size (mm) 1.60 1.70 2.10 2.30 2.65 3.15 3.70 4.20 4.75 5.25 5.80	Closest American Drill 1/16 51 45 3/32 37 1/8 27 19 13 5 1	Control Contro	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K Screw Size (mm) M1.5 M2.2 M2.5 M3 M4.5 M5 M6	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.25 1	9.00 Drill Size (mm) 1.15 1.25 1.45 1.55 1.45 1	T Closest American Drill 55 55 55 55 55 55 55 55 55 55 55 55 5	9.40 2.169.43.1 	** Closest American Drdi 54 54 54 54 54 54 54 54 54 54	Drill Size (mm) 1.60 1.70 2.10 2.30 2.65 3.15 3.70 4.20 4.75 5.25 5.80 6.30	Closest American Drill 1/16 3/32 3/32 37 1/8 27 19 13 5 1 E	Control Contro	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K Novo Screw Size (mm) M1.5 M1.6 M1.7 M2.2 M2.2 M2.5 M4 M4.5 M5.5 M6 M7	1.00 1.00	9.00 2.00 2.00 0.00	T Closest American Drill 55 55 57 1/16 52 50 46 41 39 32 30 30 30 25 21 20 19 14 8 4 8 D	9.40 2.168.43.1 Drill Size (mm) 1.25 1.35 1.75 1.75 1.75 2.20 2.60 2.70 3.50 3.50 4.40 4.40 4.40 4.50 6.50 6.40	U Closest American Drill 51 54 17/16 51 55 44 44 37 36 31 28 22 21/164 17 16 10 4 7 732 E F F	Drill Size (mm) 2.10 2.10 2.30 2.65 3.15 3.70 4.20 4.75 5.25 5.80 6.30 7.40 8.40	Closest American Drill 17/16 51 45 3/32 37 1/8 27 19 45 3/37 1/8 27 19 13 5 1 1 E L Q	Drill Size (mm) 2.20 2.40 2.75 3.30 3.85 4.40 5.00 5.50 6.10 6.60 7.70 8.80	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	Kore Screw Size (mm) M1.5 M1.6 M1.7 M1.6 M2.2 M2.5 M3 M3.5 M4 M4.5 M5.5 M6 M7	1.00 *** Thread Pitch (mm) 0.35 0.45 0.40 0.45 0.40 0.45 0.40 0.45 0.40 0.50 0.75 0.75 0.70 0.75 1.00 1.00 1.20 1.20 1.20	9.00 Prill Size (mm) 1.45 1.45 1.45 1.45 1.45 2.05 2.40 2.50 2.90 3.25 3.30 3.75 4.00 4.10 4.20 4.00 5.25 6.00 5.25 6.00 7.80 8.00	T Closest American Drill Sti 55 55 55 55 55 55 55 55 55 55 55 55 55	9.40 1.100 2.168.43.1 Drill Size (mm) 1.25 1.35 1.70 1.75 1.70 2.20 2.60 2.70 3.50 2.70 3.50 3.50 4.40 4.40 4.450 4.450 4.450 5.40 5.40 5.40 8.40 8.40 8.40	U Closest American Drill Sil Sil Sil Sil Sil Sil Sil Sil Sil	Drill Size (mm) 1.60 1.70 2.00 2.65 3.15 3.70 4.20 4.75 5.25 5.80 6.30 7.40	Closest American Drill 1/16 5/ 3/32 37 1/8 27 19 13 5 1 E L	Drill Size (mm) 2.20 2.40 2.75 3.30 3.85 4.40 5.00 5.50 6.10 6.60 7.70	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K Novo Screw Size (mm) M1.5 M1.6 M1.7 M2.2 M2.2 M2.5 M4 M4.5 M5.5 M6 M7	1.00 Verse Thread Pitch (mn) 0.35 0.35 0.45 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.50 0.55 0.75 1.00 0.75 1.2	9.00 1.15 Drill Size (mm) 1.15 1.25 1.45 1.55 1.60 2.05 2.05 2.05 2.05 3.05 3.05 3.05 4.00 4.10 4.10 4.20 5.00 6.25 7.30 6.25 6.25 6.25 7.30 6.25 7.30 6.25 7.30 6.25 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.50 7.30 7.50	T Closest American Drill 56 55 53 1/16 52 50 30 30 30 30 30 30 30 30 30 30 30 30 30	9.40 11.100 2.169.43.1 Drill Size (mm) 1.55 1.70 1.75 1.75 1.70 2.20 2.60 3.60 3.50 3.50 3.50 3.50 3.50 4.40 4.40 4.40 4.40 4.40 4.40 4.40 4.50 5.90 4.40 4.50 7.20 7.40 8.20	U Closest American Drill 55 54 17/16 51 55 44 44 35 36 31 36 36 31 36 36 31 17 6 10 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Drill Size (mm) 2.10 2.10 2.30 2.65 3.15 3.70 4.20 4.75 5.25 5.80 6.30 7.40 8.40	Closest American Drill 17/16 51 45 3/32 37 1/8 27 19 45 3/37 1/8 27 19 13 5 1 1 E L Q	Drill Size (mm) 2.20 2.40 2.75 3.30 3.85 4.40 5.00 5.50 6.10 6.60 7.70 8.80	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	
	K Novo Screw Size (mm) M1.5 M1.6 M1.7 M2.2 M2.2 M2.5 M4 M4.5 M5.5 M6 M7	1.00 	9.00 Provide the second secon	T Closest Closest Closest Closest Closest Drift Drift Drift Drift S5 55 53 1/16 55 53 1/16 52 55 53 1/16 55 52 21 20 30 25 21 20 30 25 21 20 30 30 25 21 20 30 30 25 21 20 30 30 30 25 21 21 20 30 30 30 25 21 21 20 30 30 30 25 21 21 21 21 21 21 21 21 21 21	9.40 2.169.43.1 Drill Size (mm) 1.55 1.70 1.75 1.70 1.75 1.70 2.20 2.60 2.70 3.10 2.270 3.50 3.50 3.50 4.40 4.40 4.40 4.40 4.40 4.40 4.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 5.50 6.40 6.50 7.20 7.40 8.40 7.20 7.40 8.40 7.40	U Closest American Drill 55 54 1716 51 55 54 44 35 1716 51 55 54 44 35 1716 51 52 28 28 28 22 21 177 17 10 48 44 47 17 17 17 17 17 17 17 17 17 1	Drill Size (mm) 1.90 2.10 2.10 2.65 3.15 3.70 4.20 4.75 5.25 5.80 6.30 7.40 8.40 9.50	Closest American Drill 17/16 51 49 45 3/32 37 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 1/8 27 27 1/8 27 27 27 27 27 27 27 27 27 27 27 27 27	Drift Size (rmn) 1.65 1.75 2.00 2.40 2.75 3.30 3.85 4.40 5.00 5.50 6.10 6.60 7.70 8.80 9.90	Cic Ame D PIN	N 5498 @	■ ■ BF85E (ArPlay Password) (8.43.1	×	

3.3.2.3 Add projection, full screen, withdraw projection, and remove a participant





Description

Add Projection:

When a participant's screen is not currently projected to the display, and you want to assign the participant to be a presenter, click on or tap the participant then click on or tap **Add Projection**. There will be a halo around the presenter's icon.

NOTE 1: Once you select **Add Projection**, the participant's screen will be projected to the display immediately without the participant's confirmation.

NOTE 2: The first presenter's screen will be projected in full screen automatically.

Remove a participant:

When a participant's screen is not currently projected to the display and the participant wants to leave the session, click on or tap the participant then click on or tap **Remove this participant**.

Cancel:

Click on or tap **Cancel** to abort the selection.

Full Screen:

When at least one participant's screen is projected to the display and you want another participant to be the presenter in full screen mode, click on or tap the participant then click on or tap **Full Screen**.



Withdrawing projections: When a participant's screen is currently projected on the display and the participant wants to withdraw the projection of their screen from the display (while staying in the presentation session), click on or tap the participant and click on or tap Withdraw Projection.

3.3.2.4 Allocation of the display

One presenter: Image: Contract of the state of the	
Tep Drill Clearance Drill Metric Tap B Clearance Drill Sizes Tap Drill 7% Thread for Aumrium, Brass, 5tres, Stahles, 8 fron Clearence Drill Sizes Thread for Aumrium, Brass, 6 fron Close Fit American Standard Fit American Sizes Thread for Aumrium, Brass, 6 fron Close Fit Standard Fit Sizes Thread for Aumrium, Brass, 8 fron Close Fit Standard Fit Sizes Thread for Aumrican, Brass, 8 fron Close Fit Standard Fit Mi.6 0.15 1.25 56 1.01 57 50 Mi.6 0.15 1.25 50 1.26 51 1.76 50 Mi.6 0.35 1.45 52 1.75 50 1.20 48 2.20 44 N.2 0.45 1.55 50 1.99 48 2.30 37.32 2.40 41 M.3 0.60 2.40 41 2.20 37 3.15 1/8 3.30 30 M.3 0.62 2.40	
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M.4 0.70 3.30 3.50 28 4.20 19 4.40 17 M.4 0.70 3.30 3.50 28 4.20 19 4.40 17 M.5 0.70 3.75 2.5 4.00 22 4.75 13 5.00 9 M.5 0.70 4.00 21 4.40 1174 5 5 5.50 7/32 M.5 0.80 4.10 20 4.40 117 5.25 5 5.50 7/32 M.5 0.80 4.20 19 4.50 16 5.80 1 6.10 8 M.6 1.00 5.00 8 5.40 4 6.30 E 6.60 G M.7 1.00 6.00 8 6.40 E 7.40 L 7.70 N M.7 1.00 6.00 8 6.40 E 2.25	
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M.7 1.00 6.00 B 6.40 E 7.40 L 7.70 N * 76012	
• • • • • • • • • • • • • • • • •	
Two presenters:	×
	2
 Total 3 (K) J (K) Total 4 (K) J (K)<	×
Four presenters:	

Description

When you manage the session and assign the presenters to project their screens to the display, the NovoEnterprise will display their screens in a layout based on the number of presenters. The images to the left display the different layouts.

Function	Description

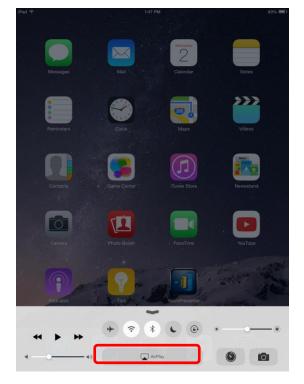
3.4 iOS/Android Full Mirroring

When NovoEnterprise is at its home screen, it can receive requests from either a collaboration connection described in section 3.1 and 3.2, or iOS/Android full mirroring request.

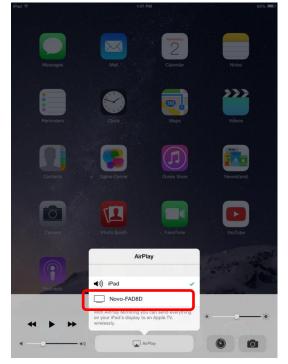
3.4.1 iOS Full Mirroring

All participants using iPads/iPhones can mirror their screens to NovoEnterprise by using iPad/iPhone's built-in Airplay service. No software installation is required in this case. To do so,

- 1. Connect your iPad/iPhone to the same network where your NovoEnterprise device stays.
- 2. Swipe up from the bottom of the iPad or iPhone to show the Control Center.



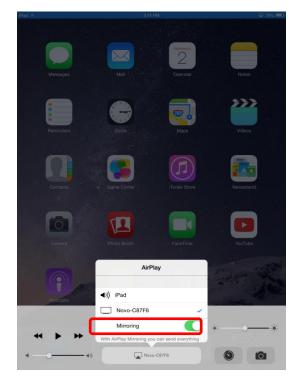
3. Tap AirPlay and select NovoEnterprise's AirPlay device name. By default NovoEnterprise's AirPlay device is named as "Novo-XXXXX", where XXXXX is a device-generated name.



4. Switch on "Mirroring" option. Then an "Airplay Password" prompt pops up. Enter the 4digit "AirPlay password" shown on NovoEnterprise's home screen (illustrated below). Once the correct password is entered, your iPad/iPhone will be mirrored to the NovoEnterprise's screen.



5. To stop mirroring your iPad/iPhone, you should swipe up from the bottom of the iPad/iPhone to access the "AirPlay" menu. Tap "Novo-XXXXX" name, and then switch off mirroring function.

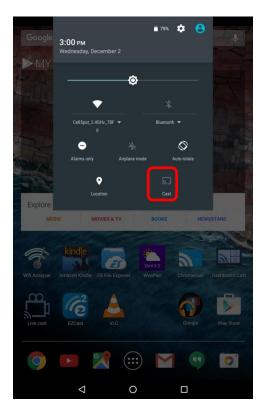


3.4.2 Android Full Mirroring

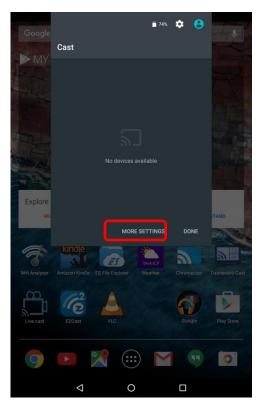
All participants using Android tablets or phones can mirror their screens to NovoEnterprise by using tablets/phones' GoogleCast service. No software installation is required in this case.

NOTE: The actual operation steps might vary due to different Android OS releases and/or manufacturers' Android customization. The following steps are illustrated using Google's Nexus 7 Android tablet.

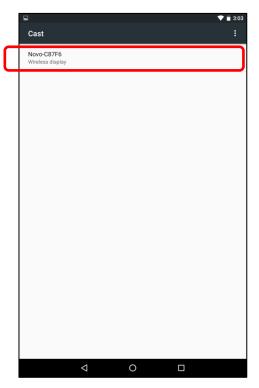
- 1. Connect your Nexus 7 the same network as your NovoEnterprise.
- 2. Swipe down from the top of Nexus 7 to show the Control Center, and then tap **Cast** button.



3. You will see a list of devices you can cast your Nexus 7 to. If this is the first time you set up such a connection, the list may be empty. If you don't see the desired NovoEnterprise in the list, tap "MORE SETTINGS".



4. A new list will pop up with all available GoogleCast-capable devices you can cast to. In this case, "Novo-C87F6" is the desired NovoEnterprise unit. Tap on it and continue.



 Establishing such a connection could take up to 15 seconds. The following "Connecting..." message may appear.

⊾ Cast	ଲ ♥ ∎ 3:03 :
Novo-C87F6 Connecting	

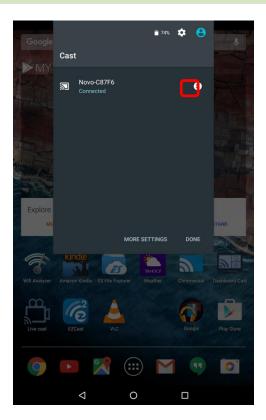
6. If the connection is successful (i.e. a GoogleCast session is started successfully), the status message will change to "**Connected**". At this moment, your Nexus 7 should be mirrored to the NovoEnterprise's screen.

	🔊 文 📋 3:04
Cast	:
Novo-C8716 Connected	•

 To stop mirroring, please swipe down from the top of the Android device to show the Control Center, and then tap Cast Icon. Please note that "Cast" is changed to NovoEnterprise's device name ("Novo-xxxxx").

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8. Tap 🗵 icon to stop the GoogleCast session.



3.4.3 Multi-Screen iOS/Android/PC Mirroring

NovoEnterprise allows multiple users to project their screens to NovoEnterprise simultaneously using AirPlay (iOS), GoogleCast (Android), NovoPresenter (Android or iOS devices) and Desktop Streamer. To do so:

- 1. Project your screen to NovoEnterprise via Desktop Streamer, Apple AirPlay, or GoogleCast using the instructions described in section 3.1.3, 3.4.1 and 3.4.2.
- Assign each presenter to a corresponding screen quadrant using the instructions in section 3.1.4.3.

NOTE: Only 2 users can simultaneously mirror their screen via AirPlay/GoogleCast during a multi-screen presentation.

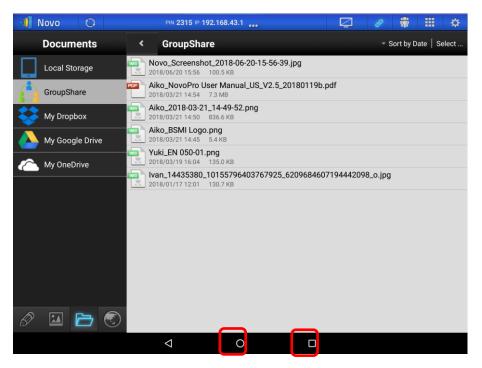
The image below illustrates multi-screen mirroring using different mirroring/projection methods.



NOTE: To ensure the login information is available after the initial projection, make sure that the first participant connects to the NovoEnterprise device using Novo Desktop Streamer otherwise write down the login information for subsequent participants if the first connection is done via AirPlay or GoogleCast.

3.4.4 Default Screen Mirroring (for Android only)

NovoEnterprise allows Android users to mirror their device's screen by default via *NovoPresenter*. While users are making a presentation via *NovoPresenter*, they can tap the home button or previous app button at any time to jump out of the *NovoPresenter* interface and mirror their device's screen or open any app on their device on NovoEnterprise. When another app's screen is projected, the *NovoPresenter* connection will not be disconnected.



NOTE: The appearance and location of home key and previous app key may vary depending on actual models.

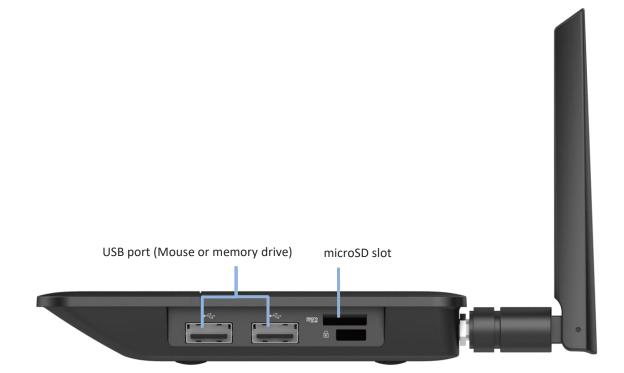
Whenever users want to return to the NovoPresenter window and continue their presentation

session, tap the icon on the desktop or app list of the device.

3.5 Presenting with NovoEnterprise

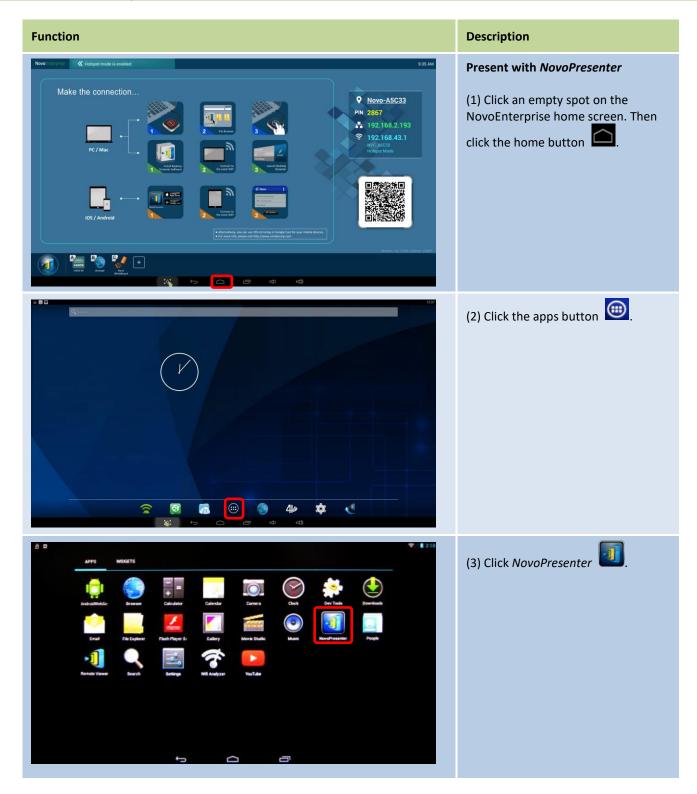
Your NovoEnterprise device allows you to make presentations with the computing power of the device itself without the assistance of a computer. Your presentation files may reside in a microSD card, USB memory drive, the internal storage of your NovoEnterprise device, or in your Dropbox online storage account (Internet connection required for Dropbox access).

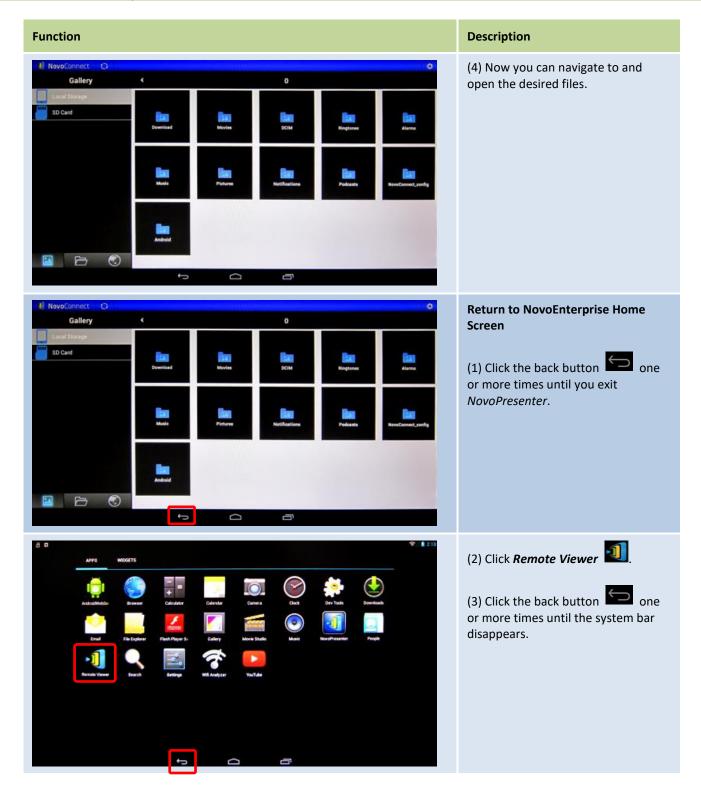
The steps for making a presentation with only your NovoEnterprise are as follows:



- 1) If your presentations are stored on a microSD card, please insert the microSD card into the microSD card slot.
- 2) If your presentations are stored on a USB thumb drive, please first connect a USB hub to your NovoEnterprise device, then connect a mouse and a USB thumb drive to the USB hub.
- 3) You can also save your presentation files in the local storage of your NovoEnterprise or in your Dropbox online.
- 4) Connect a USB mouse to the NovoEnterprise. Or, if you use a touch-screen panel, you can connect its touch port to the NovoEnterprise.

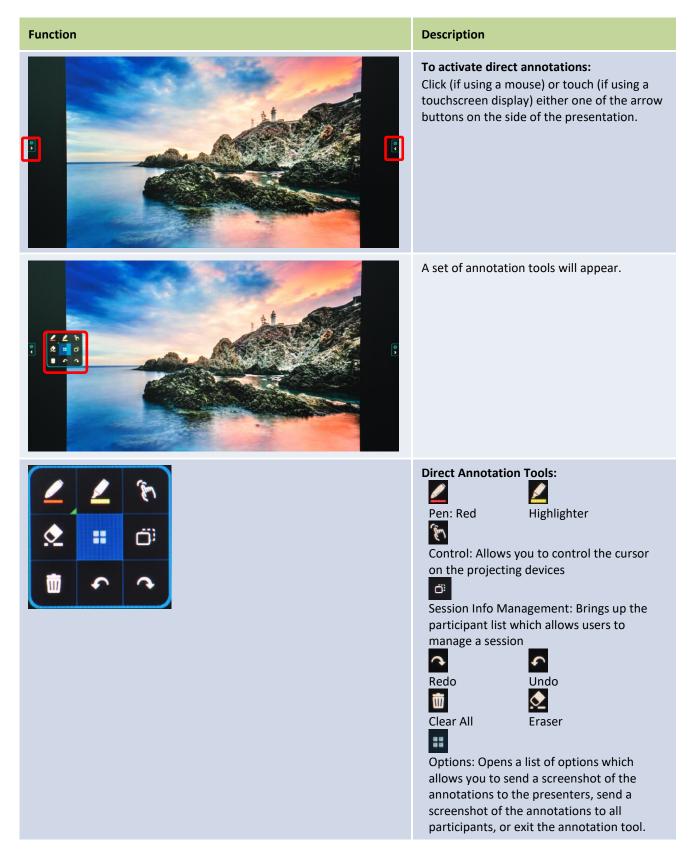
You are now ready to make a presentation with your NovoEnterprise.





3.6 Direct Annotations

During any presentation, NovoEnterprise also allows non-participant users the ability to draw annotations directly on the display. This can be done either via a USB mouse connected to the NovoEnterprise device or via a touchscreen display if the NovoEnterprise device is connected to one.



4 Collaboration Tools

NovoEnterprise is not only a wired/wireless presentation device, but also a collaboration system with a set of built-in tools. You can access these tools by clicking the "Tools" button.

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The middle 3 tools are straightforward and self-explanatory, and this chapter will focus on the 3 tools shown on the top row and the AirNote tool. In addition, a new concept, User Group, is described in details as well.

4.1 Voting/Polling

Voting/Polling allows the *moderator* to create sets of questions or quizzes to post/administer to all *participants*.

- Voting allows the *moderator* to administer a polling question set to all *participants* in a presentation session.
- Voting allows *participants* to respond to questions from their devices.
- The *moderator* can monitor the voting results in real time.

4.1.1 Edit voting/polling

Creating a question set

1. Click on the "Tools" tab and select "Edit Voting." This will open the Voting window.



2. To create a new question set, select "New." This will open the "Question" Editor.



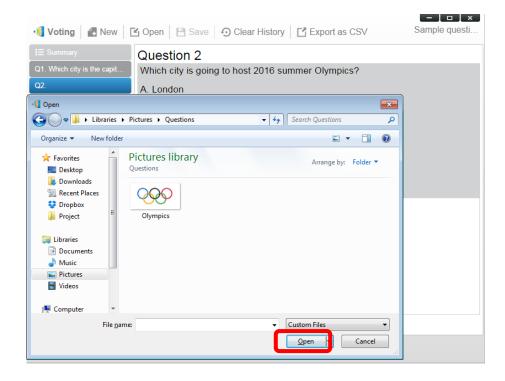
3. Enter the text of your question by clicking on the text field at the top. If the question is a multiple-choice question, please label the choices as "A.", "B. ", "C.," etc.

🗐 Voting 🛛 🛃 New 🛛 [🖺 Open 🛛 💾 Save 🖉 Clear History 🔤 Export as CSV	<u> □ ×</u>
i⊟ Summary	Question 1	
Q1. Which city is the capit + Add a Question	Which city is the capital of U.S.A? A. Beijing B. Banglore C. Washington, D.C. D. Cario	
	Click to Import Image	
	Done Delete Cancel	

4. If you wish to include an image, click on area "Click to Import Image". This will allow you to import an image from your computer.

🜖 Voting 🛛 🛃 New 🛛 [🖆 Open 🛛 🗎 Save 🕤 Clear History 📑 Export as CSV	Sample questi
i≣ Summary Q1. Which city is the capit Q2.	Question 2 Which city is going to host 2016 summer Olympics? A. London B. Tokyo C. Rio D. Boston	
	Click to Import Image	
	Done Delete	

Select the image (.png, .jpeg, .jpg) and click "Open." The image should now appear below the text area.



5. Choose Question Type from the "Type" drop-down list.

Voting A New	🖆 Open 📄 Save 🕤 Clear History 📑 Export as CSV	Sample questi
I≣ Summary	Question 2	
Q1. Which city is the capit	Which city is going to host 2016 summer Olympics?	
Q2.	A. London B. Tokyo	
	C. Rio D. Boston	
	$\gamma \gamma \gamma \gamma$	
		Not Selected •
	Thumb Up/Down True/False Done Delete	
	Multiple-choice: 4	
	Open-ended	

Select the correct answer from the "Answer" drop-down list. If the question does not have a correct answer (such as an opinion poll), you can choose "Not Selected".
 NOTE: Open-ended questions do not have this option.

Q1. Which city is the capit	Question 2	
	Which city is going to host 2016 summer Olympics? A. London B. Tokyo C. Rio D. Boston	
	Multiple-choice: 4 V	C Not Selected

- To add another question, click on the "+ Question" button at the bottom left corner.
 + Add a Question
- 8. When a question set is completed, save it by clicking the "Save" tab.

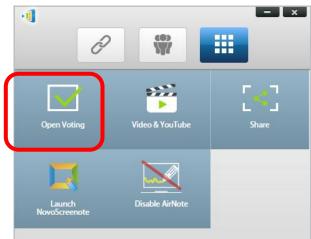


9. Name you quiz and select a location on your computer. This will create a database (.db) file that can be re-opened, edited or administered later.

4.1.2 Administer voting/polling

Start voting

1. Click on the "Tools" tab and select "Edit Voting." This will open the Voting window.



- 2. Open an existing question set or create a new one (as described in the previous section.)
- 3. Select a question and click "Start" to send it to all *participants*. The question will appear on *participants*' screens.

📲 Voting 🛛 🛃 New 🛛 [🖞 Open 🛛 💾 Save 🕤 Clear History 📑 Export as CSV	Sample questi
듣 Summary	Question 2 (Multiple-choice: 4)	
Q1. Which city is the capit	Which city is going to host 2016 summer Olympics?	
Q2. Which city is going to + Add a Question	A. London B. Tokyo C. Rio D. Boston	
	Edit Start View Status	

4. As *participants* answer the question, the *moderator* can monitor the results by clicking the "View Status" button. With the status window opened, the *moderator* can view participants' reaction in real time.

Q1. Which city is the capit Q2. Which city is going to	Open Save Ocear H Question 2 (Multiple-choice: Which city is going to host 2016 Answer OFF	4)	67% 33%		nple qu	Q2 🔵
	Name	Status:	А	В	С	D
	Total:3	0	0	2	1	0
	Vivitek	v		•		
	TC-AIO	×			•	
	Tony	v		•		
		fiew Question Stop				

- 5. To return to the question, click "View Question."
- 6. The *moderator* needs to stop the current voting before starting another voting question.
- 7. At the end of the voting/polling session, you can export the result as a CSV file by clicking "Export as CSV."

4.1.3 Respond to voting/polling

Once a *participant* receives a voting/polling question, the question will pop up automatically on the participant's screen.

- For a multiple-choice question, the *participant* can select the answer and then submit.
- For an open-ended question, the *participant* can select an image file from your device for submission.



NovoPresenter screenshot



Desktop Streamer screenshot

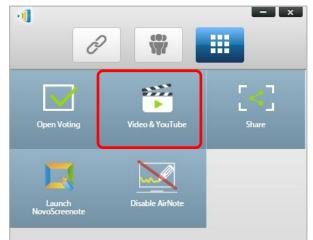
4.2 Video Clips and YouTube Streaming

This feature allows you to smoothly stream your local video clips or YouTube to NovoEnterprise.

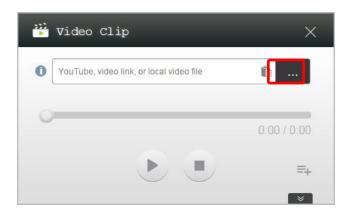
Please note that only the presenter in full-screen projection is able to use this feature. (Presenters in 4-to-1 projection are not able to do so.)

4.2.1 Streaming local video files

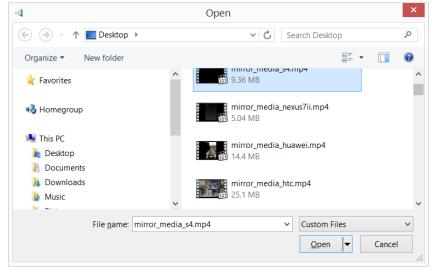
1. From the "Tools" menu, click on button "Video & YouTube".



2. When the "Video Clip" panel shows up, click the Browse button to locate the video clip on your computer.



3. Select the video clip and click on the PLAY button to start the playback.



4.2.2 Streaming YouTube video

1. From the "Tools" menu, click on and launch the "Video & YouTube" tool.



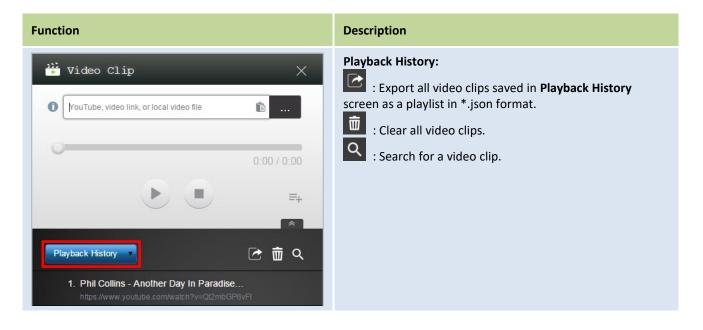
2. When the video player bar opens, paste or type the URL for the YouTube video or playlist you wish to play in the window.

2222	Video Clip	×
•[https://www.youtube.com/watch?v=hcM5n71XmBc	⊗
0		0:00 / 0:00
		=+

3. Click on the PLAY button to start the playback.

4.2.3 Video controls

Function	Description
Video Clip × https://www.youtube.com/watch?v=Cl2mbGP8vFI & 0:00 / 0:00 E+ E+	To control the playback: Click the ▶ button to start/pause/resume playback. Click the ▶ button to stop playback. Click the ▶ button to add the video clip to Library. By clicking the > button you can bring up the Video Clip settings menu described below.
Video Clip × VouTube, video link, or local video file 0:00 / 0:00 0:00 / 0:00 F Library • • • • • • • • • • • • • • • • • • •	 Library: • Add a video clip or local video file to Library. • Import your local video playlist or YouTube playlist. Before importing the video playlist, the playlist should be saved or transferred to *.json format. • Export all video clips saved in Library screen as a playlist in *.json format. • Clear all video clips in Library. • Search for a video clip.
Video Clip YouTube, video link, or local video file 0:00 / 0:00 <th> Video clip management: Move cursor over the desired video clip. Play the video clip. Re-name the video clip. Remove the video clip from the Library. </th>	 Video clip management: Move cursor over the desired video clip. Play the video clip. Re-name the video clip. Remove the video clip from the Library.



4.3 File Sharing

This feature allows the *moderator* and *participants* to shares resources (like files, screenshots, and webpage links) between their devices. The *moderator* can send resources to all *participants* while a *participant* can only send resources to the *moderator*.

4.3.1 File Sharing in Desktop Streamer

1. To open the File Sharing feature, click the tools tab. The File Sharing tool is labeled as "Share".

NOTE: The file sharing button will only be activated when there is at least one other participant connected to the session besides the moderator.

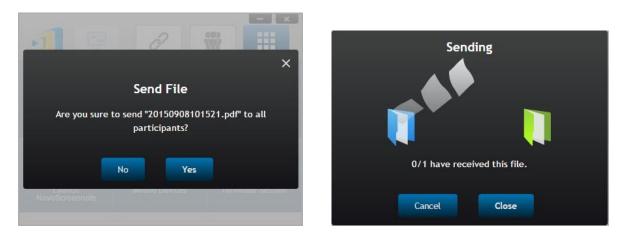
- 2. Clicking on this button will bring up five options
 - a. Share a File: Select a file for sharing
 - b. <u>Send Desktop Screenshot</u>: Send the current desktop screenshot for sharing.
 - c. <u>Share a Webpage</u>: Send a webpage link for sharing.
 - d. <u>Browse "GroupShare" Folder</u>: Open the default folder at "C:\Users\<user name>\GroupShare"
 - e. <u>Browse Webpages Received</u>: View the webpage links received from others.



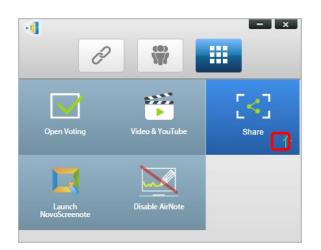
4.3.1.1 Sending

Share a File

 To share a file, click on "Share File" to bring up a file explorer. Select the desired one to continue. You will be prompted with the following dialog on the left. If you click on "Yes", a status dialog (on the right) will appear. You have the option to click on "Cancel" to abort the transfer.



2. When a transfer is active, the will appear next to the "Share" tool button. Clicking on it will bring up the transfer status dialog, as shown in previous item.

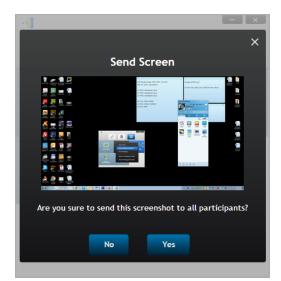


3. If you start sending a new file while the previous one is still in progress, you will be prompted with the following warning.



Share Desktop Screenshot

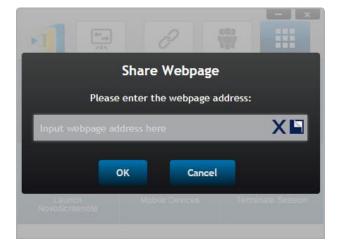
1. To send the current desktop screenshot, click on "Share Desktop Screenshot" to start the process. A dialog box will appear after a few seconds, as shown below.



2. Click on "Yes" to start the transfer.

Share a Webpage

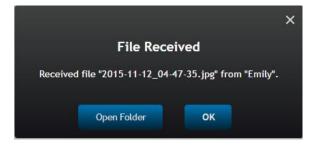
1. To send a webpage link, click on "Share a Webpage..." to start the process. A dialog box will be prompted for the user to enter the webpage link, as shown below.



2. Click on "Yes" to start the transfer.

4.3.1.2 Receiving

Once your computer receives a file, a desktop screenshot, or a webpage link, you will be prompted with a notification dialog, as shown below. ("File Received" is used as an example here.)

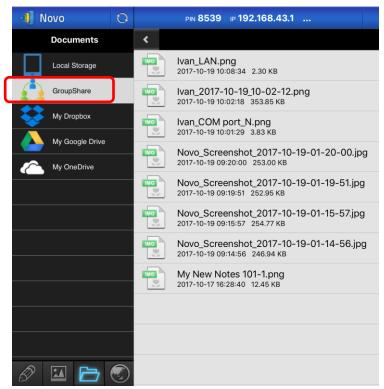


You have the options of opening the storage folder or opening the webpage link with your default browser.

NOTE: The file is named after "sender-name_original-filename".

4.3.2 File Sharing in NovoPresenter App

Folder "GroupShare" is dedicated to this feature, which is used to store received files. You can locate it in "Documents" tab.



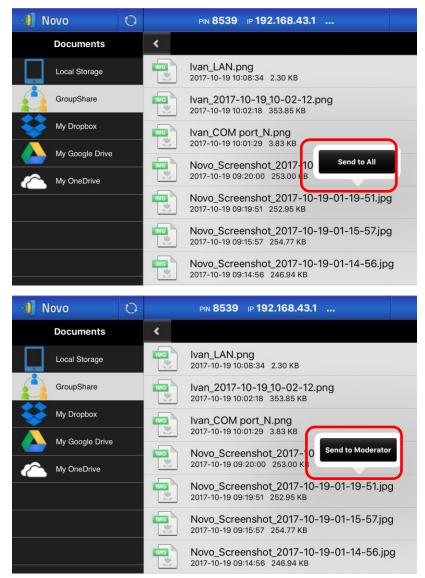
4.3.2.1 Sending

Share a File/Image

To send a file or an image, long-press on the item until a popup menu shows up.

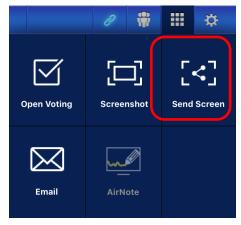
- As the moderator, you can send it to all participants
- As a regular *participant*, you can send it to the *moderator* only.

Then follow the on-screen instructions to start the transfer process.



Share a Screenshot

Click on button "Send Screen" to start the transfer process.



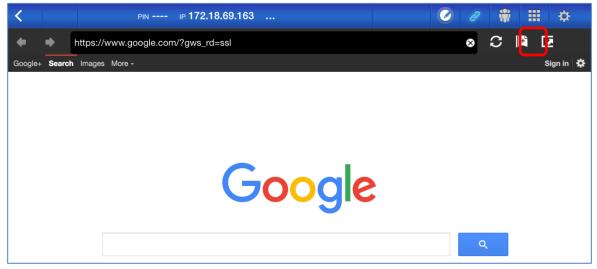
Share a Webpage

There are two ways to initiate sharing a webpage link.

• Long-press on a webpage bookmark in "My Bookmarks"

1 Novo	0	PIN 8539	₽ 192.168.43.1	
Web		Google Home		
Go to		CNN home		
Snap a QR Code		www.cnn.com		
Browse My Bookmarks		Yahoo home http://www.yahoo.com		Edit
Received Webpage Address	20			Delete
				Share Webpage
YouTube				

• In the browser screen, click on "Share" button, as highlighted in the following figure.



NOTE: When sending a file, the system will check to make sure any prior file transfer is completed. If not, an error message will pop up. You will have to resend the file when the current transfer is completed.

4.3.2.2 Receiving

Upon receiving a file, a screenshot, or a webpage link, you will be prompted with a notification dialog, such as the following.



4.3.3 Troubleshooting and rules about File Sharing

- 1. If you attempt to share a file while nobody else is in the session, you will be prompted with message: "No recipient. Nobody else is online."
- 2. If you attempt to start a file transfer when a prior transfer is still in progress you will be prompted with message: "System is busy. Please try again later."
- 3. File transfer is limited to 10 MB. If the transfer size exceeds this limit, you will be prompted with message: "Failed to Send; file exceeds size limit (10 MB)."

4.4 User Groups

This feature allows the *moderator* to organize and monitor *participants*.

4.4.1 Organizing a Group

A Group consists of a group name, the *moderator*, and some members.

- Group name and moderator are self-explanatory.
- A member's entry has two fields, Name and Device
 - Field "Name": member's name
 - Field "Device": device's name or some sort of number (like student ID)

There are two ways to organize a group.

1. Use Member Name

In the following figure, "Device" fields are left empty. *Participants* will use their name to connect to a NovoEnterprise session. In this case, only participants with a matching name can connect successfully.

Name: N	Math Class	Name: Kevin	
		Name. Nevin	
		Device: (Optional)	
Member	s (Students)	+ Membe	er
	Emily		
	Optional) Device		
)avid		
0	Optional) Device		
	Robert		
0	Optional) Device		
o J	essica		
0	Optional) Device		
•	Villson		-
	Optional) Device		Ī

NovoEnterprise

2. Use Device name

In the following figure, "Device" field is filled. For a classroom teacher, the "Device" field could be student ID or a series of numbers, such as Tablet-01, Tablet-02, etc.

In this case, *participants* will use these IDs to connect to a NovoEnterprise session. The *moderator* will use this group feature to turn them into "human-readable" names (Emily, Jerry, etc.) instead of Tablet-01 & Tablet-02 in the *participant* list.

Only devices with matching name can connect successfully.

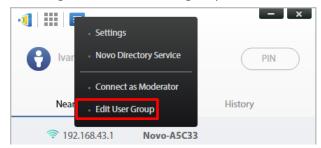
Name:		Moderator (Teacher)
	Math Class	Name: Kevin Device: (Optional)
Membe	rs (Students)	+ Member
A	Emily	
v	Tablet-01	
0	David	
0	Tablet-02	
0	Robert	
0	Tablet-03	
0	Jessica	
0	Tablet-04	
•	Willson	-
	Tablet-05	ū

4.4.2 Creating User Group

4.4.2.1 Creating User Groups Manually

NOTE: This feature is available to NovoEnterprise PC/Mac software but not Chromebook/tablet/phone Apps.

1. Open the NovoEnterprise *Desktop Streamer* application and then click on E. Click on button "Edit User Group" to add, change, and delete user groups.



2. Click on button "Create" to add a new user group.

	- ×
G Kevin	PIN
Nearby Devices	History
192.168.43.1 Novo-A5C33	
Ref. Manually Input IP Address	*
User Groups Create	
Math Class	(1) Ivan

3. A new window, "Edit User Group" will pop up. In this window, you will be able to edit group name, moderator information, and member information.

Group	Moderator (Teacher)
Name: Enter Group Name	Name: Mr.BT] Device: (Optional)
Members (Students)	+ Member
	Done Save Close

4. Once you have finished adding members to a group, click "Save" and "Done to return to the "User Groups" list. This new group should appear in the list of user groups.

4.4.2.2 Saving a Presentation Session as a User Group

NOTE: This feature is only available in Education Edition.

A moderator for a presentation session can also quickly save the participants in a current presentation session as a user group via the *Desktop Streamer* and *NovoPresenter* application.

1. Have all the users you want in the user group login to a presentation session, and then click the user group button.

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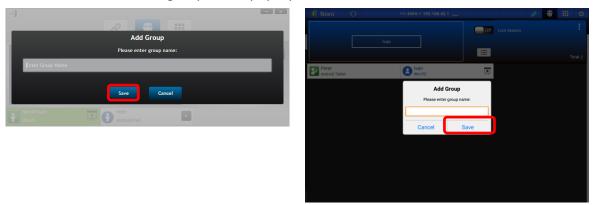




2. Select "Save User List" in the User Group menu.

Coose User Coup Email Save User List Swe User List Email Man Email Man Email

3. Enter a name for the user group in the pop-up window and click "Save".



4.4.3 Managing Existing User Group

Click on one of the user groups and three action buttons will become visible on the right.

NovoEnterprise

	- ×
G Kevin	PIN
Nearby Devices	History
중 192.168.43.1 Novo-A5C33	
User Groups Create Import	
Math Class	010

Ø (Edit)	Open "Edit User Group" window, allowing users to make changes.
🖆 (Export)	Export a User Group as an XML file, which can be loaded to any mobile devices and other PC/Mac.
🛅 (Delete)	Delete a User Group

4.4.4 Applying User Group

Windows/Mac

1. When you connect to a NovoEnterprise device, click the user group button.



2. Select "Choose User Group" in the user group menu.



3. Select the desired group.

-	Math Class (1) Ivan		×
Y		Peter Deter	

4. A user list will be displayed for the group you selected. Tabs "All", "Online", and "Offline" are a quick sorting based on participants' status.



5. To de-select this group, click on the user group button and then click "De-Select this Group".



<u>iPads</u>

- 1. Copy the user group files (*.xml) to NovoPresenter App.
 - These User Group files are generated by using the Export function on the PC/Mac software.
 - Refer to Section 3.2.2.3 on how to copy files to iPad.
- Launch NovoPresenter. Go to "Settings" → "User Groups" → "Refresh" to import the User Group files you just copy.

		ð	*		✿		Q	ð			₽	
		Set	tings			<		Set	tings			
L	ocal Settings					Us	er Groups:					
	Name: Kate				>		History Class					
	Connect as Mo	derator			>							
	User Groups				>							
	Remote Display	/ Quality	y		>							
	Novo Lookup S	erver			>							
	Software Versi	on: 3.0.2	2.36884	1		-						
F	emote Device											
	Device's Reset				>	_						
0) 2017 Delta Elec	tronics, I	nc. All rig	ght reserv	ved.					Refr	esh	

3. After connecting to the NovoEnterprise device, tap the user groups button.



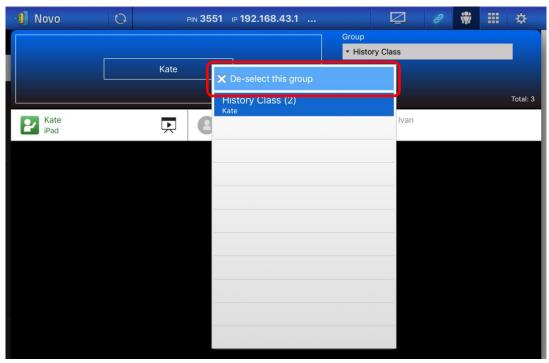
4. Tap on "Choose User Group" to display list of available groups, and then select the desired group.

📲 Novo	0	PIN 2144	⊮ 192.168.43.1		Q	P	Ŵ		₿
				Off	Lock Se	ssion			1
	Kate	H Ka	istory Class (2)			Choose	e User	Group	
Kate iPad	Ņ	8			lvan Win P	I Save U c	ser Lis	t	

5. A user list will be displayed for the group you selected. Using tabs "All", "Online", and "Offline" is a quick way to sort users based on their status.

Group History Class All Users (3) All Users (3)	¢	₩ 🎫	Q	3551 ⊮192.168.43.1	PIN 35	0	1 Novo
All Users (3)			ory Class				
					Kate		
	Total: 3			Peter			Kate
Pad Q Peter Offline (2)				B Peter			

6. To de-select this group, tap the user group button, and then tap "De-select this group".



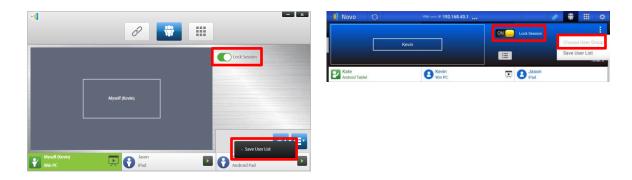
Android Tablets

- 1. Connect your Android tablet to your computer.
- 2. Copy User Group files (*.xml) to tablet's folder "<home>/NovoPresenter/UserGroups".

The rest of the operation is the same as the iPad's.

4.4.4.1 User Group Limitations in Desktop Streamer and NovoPresenter

When managing a presentation session using Education Edition, if "Lock Session" is enabled, "Choose User Group" will not be displayed or will be grayed-out. As a result, the moderator cannot apply an existing user group.

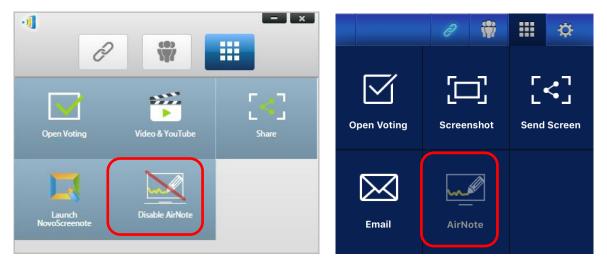


4.5 AirNote Annotation Tool

The AirNote annotation tool allows participants to annotate on the presentation display directly from their device during a full screen presentation.

4.5.1 Enabling AirNote

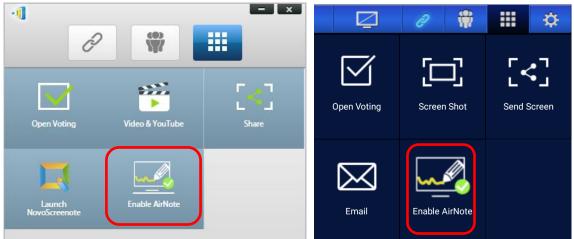
When a participant's screen is projected as a full screen presentation on a device they may enable other participants to directly annotate on the screen from their device via the AirNote button in the collaboration tools menu.



The Collaboration Tools Menu on the presenter's screen (Desktop Streamer / NovoPresenter) NOTE: When AirNote is enabled the button in the collaboration tools menu will show "Disable AirNote". When AirNote is enabled the button in the menu will show "Enable AirNote". AirNote is disabled by default.

4.5.2 Using AirNote

1. Once the presenter has enabled AirNote, participants in the presentation session can click the AirNote button to begin directly annotating from their device.



The Collaboration Tools Menu on a participant's screen (Desktop Streamer / NovoPresenter)

2. A shot of the presentation display will be copied onto the participant's device where they can begin drawing annotations either by mouse (for Desktop Streamer users) or by touch (for

NovoPresenter users), with the annotations made from their device showing up on the presentation display.

NOTE: The drawing tools used in AirNote is the same as the note tools used in the Note function for Novo Desktop Streamer. See 3.2.2.1 for more information on the note tools.



IMPORTANT: Only NovoPresenter participants using a tablet are able to draw annotations on their device. Smartphones users are unable to draw annotations due to screen size, and are only able to allow other participants to annotate on their projected screen.

4.5.3 Assigning AirNote Annotation via the Participants List

The AirNote annotation tool also allows the moderator for a presentation session to assign a participant in the session to annotate via AirNote during a full screen presentation directly from the moderator's participants list.

NOTE: In Corporation Edition, this function only can be used when the moderator function is enabled.

1. Click or tap a participant's icon to bring up the options list when the presenter is making a presentation.





2. Select "Launch AirNote Window".



📲 Novo 🛛 🔾	PIN IP 192.168.43.1		0	
		Off Lock Session		
	Jason			
				Total: 3
Android Tablet	E Kevin Win PC	B Jason IPad		Ĕ
Android Tablet	Transfer Moderator Role	- IPao		~
	Remove This Participant			
	Launch AirNote Window			

3. When the AirNote icon appears, the designated participant can start using AirNote.



5 Configuring NovoEnterprise

As described in Section 1.3, you can configure a NovoEnterprise device from its home screen. On the other hand, you can also configure the device using *Desktop Streamer* App or via a MicroSD card.

5.1 Configuring NovoEnterprise via a MicroSD card

This function allows users to create and install a custom configuration file to automatically configure NovoEnterprise's settings via a microSD card.

Download and open NovoAutoConfig.xml template file

- Visit Vivitek website (<u>http://www.vivitekcorp.com</u>) and download the zip file "SD Configuration".
 Extract the "NovoAutoConfig.xml" file from the zip archive.
- 2. Using either WordPad or another XML editing program, open the file "NovoAutoConfig.xml".
- If you are using WordPad, follow these steps. Otherwise follow the procedures of your preferred XML editor.
- 4. Launch WordPad and open the template file. Use the view "All Documents" option when the Open File window appears.

🖉 l 🖬 🤊 🤻 =	Document - WordPad	- • ×
Home	View	0
Paste Cut	☑ Open ☑ Open ☑ ☑ ♥ ✓ ✓ Configure NovoPRO via a MicroS > SD Configu	onfig - 4 Search SD Config P
Clipboard	Organize 👻 New folder	8≕ ▼ 🗊 🔞
	▲☆ Favorites ▲ Documents library ■ Desktop SD Config	Arrange by: Folder -
	 Downloads Recent Places Dropbox Project Project Documents Music Pictures Videos 	Date modifie 4/7/2016 9:37
	Kevin K. Wang 🔻 K	,
	File name:	All Documents (*.*) Open Cancel

Fill in the values of some settings:

1. When opened, the text will look like this:

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
<NovoEnterprise>
```

NovoEnterprise



2. Change appropriate setting value according to your setup environment, and delete the ones you don't need. The following table describes each setting in details.

Кеу	Value (example)	Explanation		
edition*	CORP or EDU	Edition value. It has to be either CORP or EDU. Refer to Section 1.4 for more details about these two editions.		
wifi-ssid	(example_wifi)	Wi-Fi network SSID name		
wifi-password	(example_wifi_password)	Wi-Fi network password		
remote-manager-ip-address*	(0.0.0.0)	IP address of Remote Manager software		
remote-manager-port-number*	20142	The port number used by Remote Manager software to listen to device reporting. 20142 is the default number. You need change it to match your Remote Manager's setting.		

NOTE: Settings marked with "*" are supported in NovoEnterprise software release V2.2 and above.

3. Save your changes to the template.

Copy and install files

- 1. Copy NovoAutoConfig.xml file to a microSD card.
- 2. Insert the microSD card in the NovoEnterprise device.
- 3. Press the "reset" button to reboot the NovoEnterprise device.
- 4. After the reboot, those settings will be applied to the NovoEnterprise device.

5.2 DNS Mapping

DNS mapping is a capability that allows network technicians to bind the device name and the IP address of a NovoEnterprise device so that both items can be used interchangeably in the IP address field when a user is logging into a presentation session.

This provides convenience to users who want to join a presentation session using just the device name as the login, instead of using the IP address' numeric string.

Devic	e Name	PIN	UI Desig 7018 192.168 NVC_A5C33 Hotspot Mode	.43.1		
		୶ 目			-	×
		Kevin			PIN	
Device Name		Nearby	Devices	History		
in IP Address		중 192.16	i8.43.1 UI Design			

DNS mapping is allowed on the NovoEnterprise device but must be done via third-party software by a network technician. For more information on the DNS mapping procedure, check the network guide document provided on the Delta website.

6 NovoEnterprise Management

"Remote manager" is a stand-alone Windows/Mac application that enables system administrators to manage multiple NovoEnterprise devices from a single PC, making it ideal for corporations, schools or other large institutions.

6.1 Software setup

1. Download the installation package from the Vivitek website (<u>http://www.vivitekcorp.com</u>).

Remote Manager	Windows 7 and above	V2.0.0.73 (7.7MB)
	Mac OS (10.7 and above)	V2.0.0.73 (9.4MB) Download Now

2. Click on the installation package and follow the on-screen instructions.

6.2 Adding/Removing/Grouping devices

Adding a device

1. To add a new device to the device list, click on the "+ Device" button at the top of the screen.

Manager						
+ Device 🖸 Firmware Upo	iate					V 1.0.0.60 © 2015 Delta Electronics, Inc. All Rights Reserved.
Al Devices	O Refresh					🔀 Home Screen Config 🔹 Set Moderator 🕷 🖀
Unassigned Devices	ID	IP Address	Device Name	Firmware Version	Group	Description
	📄 jack	192.168.8.106	Novo-5B905	v2.0.1		
+ Group						

2. This will open the "Create New Device" window. Enter the device's ID, description (such as location), and IP address. You can also select a group (optional) from the group list pull-down menu. Click "OK" to complete adding the new device.

ID	Jackson NovoConnect
Description	Main Meeting Room
IP Address	192.168.2 .100
Group	(

- 3. When the new device is successfully added it will appear in the device list.
- 4. If the device is currently connected, the connection indicator will become green. Otherwise, it is in red.

Connected

NovoEnterprise

🝅 Remote Manager							×
+ Device O Firmware I	Jpdate					V 1.0.0.60	© 2015 Delta Electronics, Inc. All Rights Reserved.
AI Devices	O Refresh						🖪 Home Screen Config 🔒 Set Moderator 🔗 💼
Unassigned Devices	ID	IP Address	Device Name	Firmware Version	Group	Description	¥
+ Group	😑 ack	192.168.8.106	Novo-58905	v2.0.1			

Disconnected

					- • ×
🔁 RemoteManager					
+ Device 🕑 Firmware Update				V 1.0.0.60 © 2015 Delta Electronics, Inc. All Rights	Reserved.
Al Devices O Refresh				🕫 Home Screen Config	eR 💼
Unassigned Devices ID	IP Address Device Name	irmware Version	Group	Description	~
	192.168.8.106 Novo-5B905	v2.0.1			
+ Group					

Removing a device

- To remove a device from the device list, click on the device you wish to remove from the list then click the icon.
- 2. A confirmation dialog will pop up. Click "Yes" to confirm or "No" to cancel.

Refreshing device list

To refresh the list of devices in Remote Manager, click the "Refresh" in the upper left of the program screen.



Grouping devices

Click the "+ Group" button to add a new group, and then give a group name, description and add devices into the group.

🏷 Remote Manager				TROPOLITO.	USCI IVIUITU	141 Y 242 9 1 X 911	LPULINIILY IVIN	ALL HUIL			80	
+ Device Firmware Update		_							V 2.0.0.73 © 201	5 Delta Ele	ctronics, Inc. All Rights Res	erved.
All Devices (5)	C	Refresh							Home Scree	en Config	2 Set Moderator	Î
Unassigned Devices (3)		ID	I	P Address	Dev	vice Name	Firmwar	e Version	Group		Description	
	Θ	Classroom B-207	192.168	.29.160	B207		v2.1.2.130			Building B	B Classroom 207	
Group List: + Group	0	Classroom B-309	192.168	.29.111						Building 8	B Classroom 309	
: Building A (2)		Classroom A-102	Create I	lew Group						Building	A Classroom 102	
	0	Classroom A-101	Name	Building B						Building /	A Classroom 101	
	9	Classroom C-1160	Descrip	tion								
			Device									
			Devices	ID	-	IP Ad	tress		Group			
				Classroom A-101		192.168.29.32		Building A				
				Classroom A-102		192.168.29.45		Building A				
			•	Classroom B-207		192.168.29.16	0					
			~	Classroom B-309		192.168.29.11	1					
				Classroom C-116	0	192.168.1.8						
									OK Cancel			

Once the group is defined, you can click the group name to view group device list and apply the settigs to the group. In addition, you can click the button and stochange and delete group respectively.

🟷 Remote Manager						×
+ Device 🕢 Firmware Update						V 2.0.0.73 © 2015 Delta Electronics, Inc. All Rights Reserved.
All Devices (5)	G	Refresh				👌 Quick Reset 🔵 Full Reset 🙎 Set Moderator
Unassigned Devices (1)		ID	IP Address	Device Name	Firmware Version	Status
	Θ	Classroom B-207	192.168.29.160	B207	v2.1.2.130	
Group List: + Group	0	Classroom B-309	192.168.29.111			
• Building A (2)						
:• Building B (2)						

6.3 Managing device settings

- 1. By selecting a device and clicking the device settings button you will be taken to the device settings management screen. From there you will be able to remotely view and/or configure the settings for each NovoEnterprise device on your network.
 - a. <u>Editable fields</u> are Device Name, Display Setting, Language, and Password (for Settings Protection).
 - b. <u>View-only fields</u> are Model, Edition, App Version, Build Version, Wi-Fi Mode, SSID, Wi-Fi IP, and LAN IP.

Refresh 🗘	Firmware Upgrade 🔰 🧿 Quick Re	eset 🗴 Full Res	et	
	Device Info			Network
Device Name	Meeting Room Name	Ø	WiFi Mode	WiFi Client mode
Model	NovoConnect-B360		SSID	"Jackson"
EDU vs. CORP.	Education		WiFi IP	192.168.2.100
App Version	v1.6		LAN IP	0.0.0.0
Build Version	B360-CORP-EDU-DS-245			🔗 Connect To
Display Setting	Auto Config	÷ 🖉		
Language	English	÷ 🖉		Password

- 2. To edit the editable settings, click on button edit Market to start.
- 3. Click "Refresh" to update the settings information.
- 4. Click "Firmware Upgrade" to check for the latest device firmware. If an upgrade package is available, the upgrade process will be triggered.
- 5. Click "Quick Reset" to reset the application.
- 6. Click "Full Reset" to reboot the device.
- 7. Click "Go Back" to return to the main screen.

6.4 Customizing Home Screen

The top-right region in NovoEnterprise Home Screen is a slideshow area that you can customize with your pictures and videos. Follow the steps below to do so.

1. Click on button "Home Screen Config"



- 2. Then a configuration dialog pops up, with two sections, "Preload" and "User-defined."
 - a. <u>Section "Preload"</u>: the built-in content. It has two video clips and 3 pictures. You can enable/disable their playback as well as adjust their playback duration.

b. <u>Section "User-defined"</u>: the customization content. Users can edit the "playlist" for this slideshow area. The "playlist" consists of any numbers of pictures and videos.

😑 Home Screen Co	nfig - jack	(192.168.8.106	5)	
Preload				
Video 1: Product	t Introductio			
Video 2: Setup (Guide			
Picture 1: Overview			Duration: 10	seconds
Picture 2: First time using NovoPRO			Duration: 10	≜ seconds
Picture 3: Joining the meeting			Duration: 10	seconds
User-defined				
				+ Add 🛅
File Name	Duration			-
🛫 🚑 side_1.png	10			=
🛫 🚑 slide_1.png	10			
🛫 🔜 side_1.png	10			
🛎 🖂 cida 1 nna	10			•
O Sync			+	Go Back Cancel

3. Click on button "Sync" to commit the changes to the NovoEnterprise device (including uploading the content.)

6.5 Updating firmware

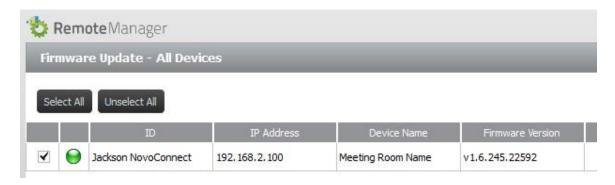
Remote Manager allows you to initiate firmware upgrade for multiple NovoEnterprise devices by clicking on one button.

1. Click "Firmware Update" on the home screen to go the Firmware Update screen.



NovoEnterprise

 A list of connect devices will be displayed with check boxes in the left column. Select the device or devices you wish to check for updates, or click "Select All" to check all devices on the list. Click "Unselect All" to remove all checks.



3. Once you have selected the devices to update, click "Update Now."

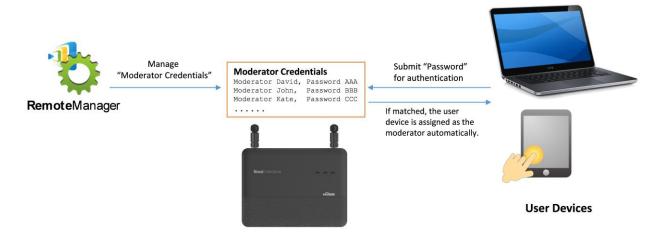
6.6 Setting moderator credentials

When using NovoEnterprise, the first connected user is assigned as the meeting moderator by default. However, this may not be the intended result in real world as the "real" moderator may not be the first user to join the session. The feature "Moderator Credentials" is designed to address this issue.

Here is how it works:

- Moderator Credentials, consisting of a list of moderators and the corresponding passwords, are stored on NovoEnterprise units. (Moderator Credentials are managed via software Remote Manager.)
- 2. When a user device connects to a NovoEnterprise unit, the user device send its moderator password (if any) to the NovoEnterprise unit. If the password matches the one stored on the NovoEnterprise unit, the user device will be assigned as the moderator, regardless it is the first device to connect or not.

The picture below illustrates the process.



Setting up Moderator Credentials in Remote Manager:

1. To set moderator credentials for a device, select the device from the device list and click "Set Moderator."

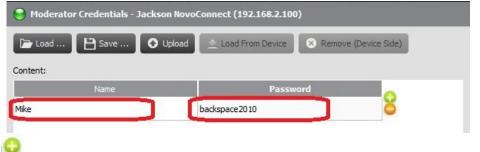
Home Screen Config	Set Moderator	%
		*

2. This will open the Moderator Credentials window. NOTE: For changes to take effect, make sure the green connection indicator is lit in the upper left of the screen.

🕒 Modera	itor Credentials - Jackson i	NovoConnect (192.168.2.100)	
🗁 Load	. 💾 Save 💽 Upl	oad 📃 🖄 Load From Device	× Remove (Device Side)
Content:			
		Password	
Mike		backspace 2010	ö
			🔶 Go Back

NovoEnterprise

3. Enter the moderator name and password in the corresponding windows.



- 4. Use the Solutions to add or delete moderators from the list.
- 5. Click "Save" to save the moderator credential file to the local PC.
- 6. Click "Upload" to upload the new moderator credential file to the device.
- 7. Click "Load from Device" to download a file saved on the device.
- 8. Click "Load" to load a moderator credential file stored on local storage.
- 9. Click "Remove (Device Side)" to remove moderator credentials currently stored on device.

NOTE: Moderator credential files will be stored in the XXXX.NCMC file format.

7 Specifications

Power Supply5.0VDC, 2APower< 10W	
Consumption	
Output Resolutions 1024x768 (XGA), 1280x720 (HD), 1280x800 (WXGA),	
1920x1080 (Full HD), Auto Config	
CPU (SoC) ARM Quad-Core 1.6GHz	
Memory DDR3 2048MB	
Storage Internal: 8GB (eMMC Flash)	
External: microSD Card Slot (Up to 32GB)	
Wi-Fi 802.11 a/b/g/n/ac (2.4GHz & 5GHz)	
External 2T2R up to 300Mbps	
Output USB Input USB Type A x 2	
Video Output HDMI x 1	
Card Reader microSD Card Slot x 1	
Ethernet 10/100/1000 RJ45 type x 1 supported PoE	
Audio Out x 1	
Power Input Micro USB (5V 2A)	
Kensington Lock x 1	
Input Video Input HDMI x 1	
Audio In x 1 , 3.5mm mini jack	
LED IndicatorGreen (System Power On) , Red (System Stand By) , Blue(Network Activity)	
Button/Switch Reset	
Dimensions 165x 123 x 21 mm (L x W x H)	
Weight 250 g	
PC/Notebook Application Requirements	
CPU Intel Pentium, 2GHz (Intel Core i3 and above are preferred)	
Operating System Windows 7/ 8 /10 (32 bits and 64 bits), Mac 10.7 and above	
RAM 4 GB	
Android Mobile Device Application Requirements	
Operating System Android 4.0 and above are recommended	
Resolution 1024x768, 1280x800, or higher are recommended	
iOS Mobile Device Application Requirements	
Operating System iOS 7.0 and above	
Device Type iPad, iPad 2, iPad 3, iPad 4, iPad mini, and iPad Air	

8 Troubleshooting

- Q: NovoEnterprise does not power up or operate.
- A: Check if the proper DC power supply with the appropriate operating voltage and sufficient operating current (5VDC, 2A) is connected to the Micro-USB port of the NovoEnterprise.

Q: My PC cannot link to NovoEnterprise wirelessly.

A: For your PC to link to NovoEnterprise, your PC must either have a built-in a Wi-Fi module or an external Wi-Fi adapter, and Wi-Fi must be enabled. If the NovoEnterprise is set to Hotspot Mode (factory default mode), choose NovoEnterprise's SSID from the available SSID list. If NovoEnterprise is set to Client Mode and is connected to a specific Wi-Fi AP, choose that AP's SSID from the available SSID list.

Q: The play/pause buttons do not work.

A: These buttons are functional only for the current *presenters*.

Q: I cannot connect to the Internet on NovoEnterprise.

A: This is normal if the NovoEnterprise is set to Hotspot Mode, since NovoEnterprise by itself does not support WAN (wireless wide area network) access. To access the Internet for tasks such as Web browsing on NovoEnterprise, please set the Wi-Fi to Client Mode and connect to a Wi-Fi AP that that is connected to the Internet.

Q: My PC or mobile device has failed to connect to NovoEnterprise.

A: First, make sure that Wi-Fi is enabled on your device. If NovoEnterprise is set to Hotspot Mode (factory default mode), choose the NovoEnterprise's SSID from the available SSID list. If NovoEnterprise is set to Client Mode and is connected to a Wi-Fi router, choose that router's SSID from the available SSID list.

Q: I cannot choose to present in full screen or in one of the split screens.

A: Only the *host* has the authority to decide whether your presentation is to be seen in full screen or one of the split screens. You may be invited to be the *host*: 1) if the Reset button is clicked on the NovoEnterprise, 2) if the *host* explicitly hands over *host* control to you, or 3) if all other *presenters* have disconnected from NovoEnterprise.

Q: I am the *host*, but I cannot preview other *participants'* screens.

- A: To preview a *participant's* screen before sending a presentation invitation, that *participant* must have screen preview enabled on his device.
- Q: My device's on-screen display looks stretched or compressed on NovoEnterprise's screen output.

A: There may be an aspect ratio mismatch between the NovoEnterprise's chosen output resolution and your device's screen aspect ratio (e.g. your device's screen has the 4:3 aspect ratio, and you have set NovoEnterprise's output resolution to a 16:9 or 16:10 option). Try to set the display resolution on the NovoEnterprise so that it has an aspect ratio that either matches that of your device or is as close to your device's screen aspect ratio as possible. You have the option of letting NovoEnterprise automatically determines the best output resolution by selecting Auto Config in the display settings.

Q: During the presentation, my PC/Mac computer's cursor is flickering.

A: You can try a different screen resolution for your PC/Mac computer. You can also try different settings for Projection Mode, Visual Quality, and Screen Refresh Rate (which need to be set before you connect your PC/Mac computer to your NovoEnterprise) until the problem disappears or is minimized.

9 Safety Information

Refer to the manual and take note of the safety instructions before operating your device.

- Ensure that the power source's output voltage matches your device's operating voltage.
- To prevent the risk of electric shock, do not operate this device near water or in environments of high moisture.
- Do not disassemble or try to repair this device by yourself. Contact your local Delta service center for assistance.
- Keep the device's plastic packages out of the reach of children.

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