



# **Novo**Touch Remote Viewer

## **User Manual**

(For LK6530i, LK7530i, and LK8630i models)



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## **1. Getting Started**

## **1.1 Introduction**

Remote Viewer is the application that runs on NovoTouch machines with the Android OPS installed. It allows users to present content located on their own devices wirelessly on the NovoTouch display in either a conference room or a classroom setting.

This document describes how to use Remote Viewer and its associated applications. For information on the NovoTouch display itself including how to setup the display, please refer to the NovoTouch user manual.

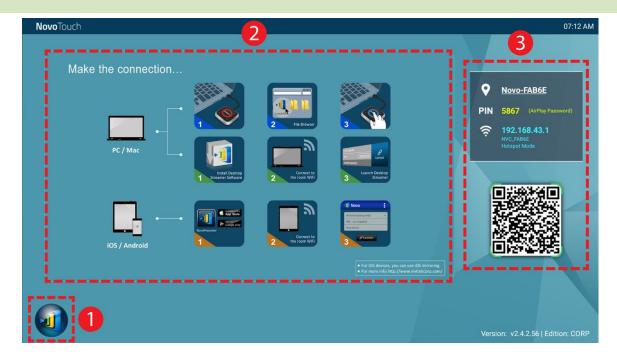
## 1.2 Hardware Setup

In order to run the Remote Viewer software you must first install the Android OPS module included with the NovoTouch display and then properly power on the display, see the NovoTouch user manual for more information on how to install the OPS module and power on the display.

After installing the Android OPS module you may also connect an optional USB mouse/keyboard to any of the display's USB ports for navigation of the Remote Viewer outside of touch gestures.

## **1.3 NovoTouch Remote Viewer Home Screen**

After launching the Remote Viewer application on the NovoTouch, the NovoTouch will show the following screen, which is referred to as "NovoTouch Remote Viewer home screen" or just "home screen" in this document.



#### 1 Basic Device Configuration and Settings

NovoTouch Remote Viewer is default at Wi-Fi Hotspot mode with its SSID name displayed at

the home screen (e.g. NVC\_528FB in box <sup>3</sup>). Alternatively, you can connect the NovoTouch

to any existing network via a wireless and/or a wired connection. Click on the  $extsf{eq}$  button,

then "WiFi" to make the necessary changes.

Similarly, 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 <a href="http://vivitekcorp.com/">http://vivitekcorp.com/</a> for the software download.
iOS/Android Users:	Install NovoPresenter from App or Play Store. (See Section 1.5)
Chomebook Users:	Install Desktop Streamer from Chrome Web Store (See Section 1.5)

## **3** Connection Information

- Device Name / Location 2 Users can change this to a meaningful room name.
- **PIN** PIN This is an optional PIN code to join a presentation session.
- IP address 👪 🛜 Ethernet and WiFi 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:



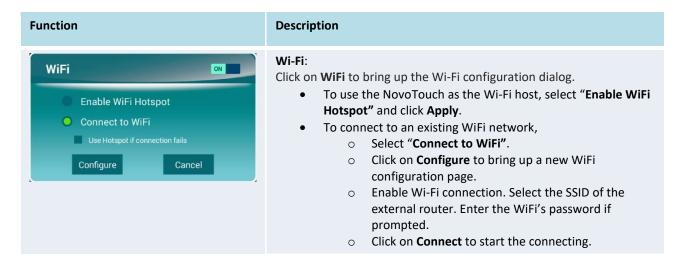
## **1.4 Basic Device Configuration**

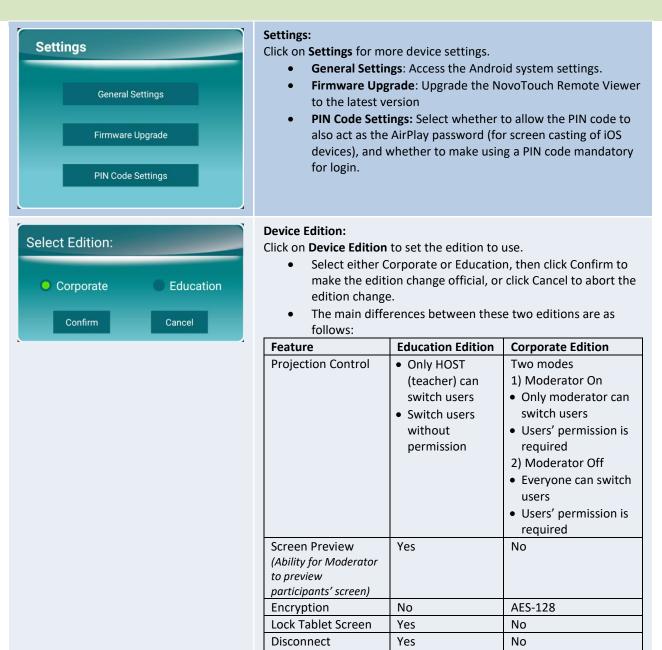
Before being deployed, the NovoTouch may require some basic configuration such as setting up its

network connection, etc. To access the various settings menus click the 💷 button on the Remote

Viewer home screen and click the respective menu you want to open.







NOTE: This manual primarily references the Corporate Edition for instructional examples. Special notes will accompany instructions that are specific to the Education Edition.

#### About:

Everyone

Click on About to view the version of the NovoPRO software.

#### About



#### NovoTouch Version: v2.4.1.41

Copyright © 2013 Delta Electronics, Inc. All Rights Reserved.

This App allows you to share your screen and collaborate with others.

#### Hide Session Info:

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

#### **Configure Slideshow:**

Click on Configure Slideshow to customize the image(s) in the software installation box of the NovoTouch Remote Viewer home screen.

Restart	<b>Restart</b> : Click <b>Restart</b> to restart NovoTouch Remote Viewer.
Do you want to restart this device?	
Yes Cancel	

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



#### Room Name:

Click on the associated text in the connection information box to bring up the "*Edit Room Name*" dialog.

- Enter the new name.
- Click **Save** to confirm the name change, or click **Cancel** to abort the name change.

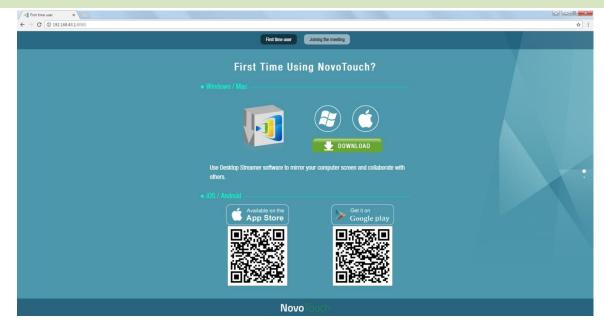
## **1.5 Client software download and installation**

To connect to NovoTouch Remote Viewer, one of two client applications may be needed on your device. They are:

<u>Desktop Streamer</u> : <u>NovoPresenter</u> : Windows, Mac, Chromebook 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 NovoTouch.



- (1) Connect your computer to the same network as NovoTouch.
- (2) Open the IP address shown on the Remote Viewer home screen with a :8080 suffix 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

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

#### 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 NovoTouch Remote Viewer'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 NovoTouch Remote Viewer deployment in your network.

## **2.1 Network connection**

NovoTouch Remote Viewer has three network connection types, Ethernet, Wi-Fi Client, and Wi-Fi Hotspot.

- A) Ethernet NovoTouch can be plugged into your Ethernet via its RJ45 port. Namely, you can connect NovoTouch 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 NovoTouch'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 high-performance Wi-Fi module can operate at two modes.
  - a) **Client Mode** NovoTouch can be connected to your organization's Wi-Fi network via its built-in Wi-Fi module.
  - b) Hotspot Mode NovoTouch can create its own Wi-Fi network, allowing users to connect their mobile devices to this ad hoc network.

-		,, ,
	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

The following table summarizes their feature difference and typical usage.

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

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

#### 2.1.1 Ethernet

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



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

- **DHCP**: NovoTouch obtains its IP address from the DHCP server on the network.
- Static IP: NovoTouch 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 (4  $\rightarrow$  <u>Settings</u>

 $\rightarrow$  <u>General Settings</u>  $\rightarrow$  ... <u>More</u>  $\rightarrow$  <u>Ethernet</u>.

<b>Novo</b> Touch		08:28 AM
Make the connection WiFi Settings Device Edition About Hide Session Info Hide QR Code Configure Slideshow Restart	n Settings General Settings Firmware Upgrade PIN Code Settings	Novo-FAB6E         PIN       9865       (APPay Pasawat)         Image: Pine Pasawat       192.168.2.169         Image: Pine Pasawat       192.168.2.169
		Version: v2.4.2.56   Edition: CORP

÷	Ethernet	
	Ethernet Ethernet is enabled	•
	IP address 192.168.2.169	
	netmask 255.255.255.0	
	gateway 192.168.2.254	
	dns1 192.168.1.202	
	dns2 0.0.0.0	
	Ethernet Ip mode thcp	

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.

#### 2.1.2 Wi-Fi client mode

In this mode, NovoTouch 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 NovoTouch home screen, click on 💷 ightarrow

<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 NovoTouch 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 NovoTouch 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 **NovoTouch** on the home screen to return to the NovoTouch Remote Viewer 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  $\rightarrow$  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 NovoTouch 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" where "XXXXX" is a device-generated text string. Please note that Android mirroring (Miracast) is disabled in this mode. In comparison, AirPlay mirroring has no such limitation.



#### **2.1.4 Dual-Network Configuration**

NovoTouch 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, NovoTouch's RJ-45 port is connected to a wired EMPLOYEE network for employees to securely access it; at the same time NovoTouch'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	CA certificate			
(Unspecified)				
Identity				
Anonymous identity				
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 NovoTouch is available to both guest users and employees.

**Notes on Network Security:** Within NovoTouch, 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**

NovoTouch is a TCP/IP-network-based device, and the communications between a NovoTouch 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 NovoTouch unit and users' devices. (For example, laptops/tablets use this port to establish "connection" to the NovoTouch 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 NovoTouch 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 NovoTouch, these ports should not be blocked by your network's firewall.

## 3. Making a Presentation

NovoTouch 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 NovoTouch to join the presentation session. There are four key features that help facilitate smooth collaboration and coordination of presentations using the NovoTouch:

- 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 *Desktop Streamer* is used to illustrate key operation steps.

#### Launch Presentation Application

Launch the *Novo Desktop Streamer* Application by double clicking icon  $\mathfrak{V}$ . Once launched, the *Desktop Streamer* will appear as follows.

]   :::   8		
192.168.43.1 PIN:	Required	Connect
lvan		Connect

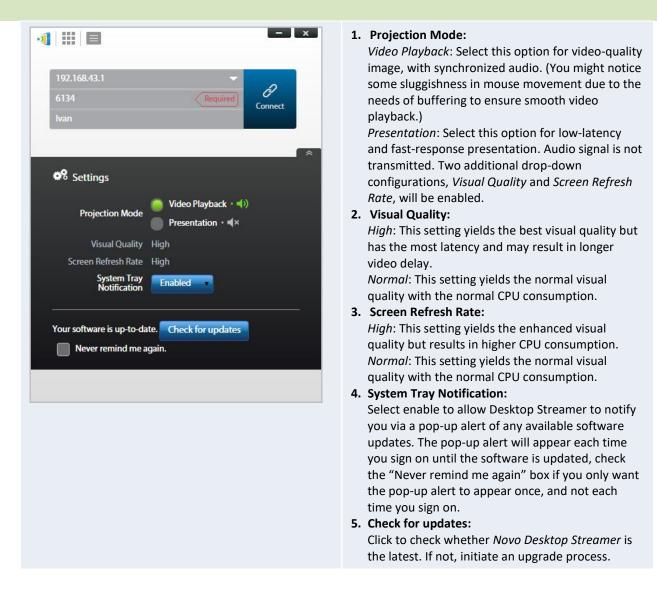
To make a presentation, follow the steps listed below:

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

## 3.1.1 Step 1: Set up session parameters

Before clicking on the connection button 2, some session parameters needs to be set up.

Function	Description
Image: state of the state of t	The main window of <i>Novo Desktop Streamer</i> Application.
192.168.1.4 (Novo-73734) 192.168.1.31 (Meeting Room Name) 192.168.43.1 (Meeting Room Name) 192.168.8.104 (Novo-C7160) 192.168.8.112 (d)	Manually enter the IP address shown on the NovoTouch Remote Viewer home screen, or select an IP address entry from the drop-down menu that matches the IP address shown on the NovoTouch Remote Viewer home screen. <i>NOTE: For NovoTouch displays that have the device</i> <i>name and IP address bound via the DNS mapping</i> <i>procedure, you may also enter the NovoTouch's</i> <i>device name in this field. See 5.3 DNS Mapping for</i> <i>more information.</i>
Your name	(Optional) Manually enter a name for this computer to be identified in the participant list among other <i>participants</i> . Example: Kevin (Note: If a name is not entered in this field, the default name of your device will be used.)
PIN: Not Required PIN: Required	If PIN is required for a presentation session, check the "PIN required" box and enter the four-digit PIN shown on the home screen.
<ul> <li>Settings</li> <li>Novo Lookup Server</li> <li>Connect as Moderator</li> <li>Edit User Group</li> </ul>	Click 🔲 to expand the Settings tab to access additional settings options.



#### 3.1.2 Step 2: Connect to your NovoTouch

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

Function	Description
192.168.43.1 6134 Ivan	Connect to your NovoTouch. Click on button Click on button Click on button Presentation session. If you are the first <i>participant</i> , this will start a presentation session. If you are not the first <i>participant</i> , you will be joining a presentation session.



192.168.43.1

PIN: 1465

Lock Session

믱믠

After a successful connection, you will see the connection tab lit up

If you are the first *participant*, you will see that your desktop is mirrored to NovoTouch 's screen.

Click the left button to access more login options, via the options menu, for other users to connect to this session.

#### Set login options for the presentation.

By clicking the QR code icon in the options menu, you can bring up the session information (including QR code) for other users to connect to this session, as seen in the second screenshot.

You can turn on/off the PIN switch to enable/disable the use of a PIN code for the presentation session.

You can turn on/off the Lock Session switch to prevent any additional participants from joining the presentation session regardless of whether they have the presentation session's login information or not.

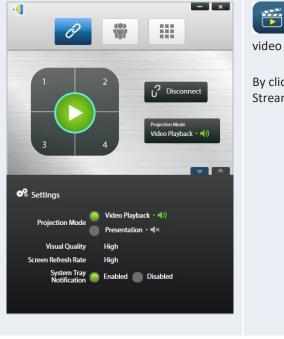
Note: This feature is available in Education Edition only.

Within the session information screen, click the button to ensure that the session information screen is expanded and shown on top regardless of the presentation being shown on the display.



: The Switch Mirroring Mode button allows you to return to the NovoTouch Remote Viewer home screen on the display without exiting the presentation session. By activating the Switch Mirroring Mode button, login information for the session will be accessible to users of iOS or Android devices who then have the ability to mirror their screens using AirPlay or Miracast during an already ongoing session. See 3.3 iOS/Android Full Mirroring, for more information. *NOTE: The Switch Mirroring Mode button can only be activated by the moderator of the session.* 

: The Extend Desktop button allows you to use NovoTouch as an extended desktop for your computer. Settings for the extended desktop mode must be configured in your computer's operating system.



• The Video Clip button allows you to directly play a stored video clip or a Youtube video on the display.

By clicking the right button you can bring up the Desktop Streamer settings menu described above.

Please note that your PC screen resolutions may change to match projector resolution. After disconnecting from NovoTouch, 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 NovoTouch 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:

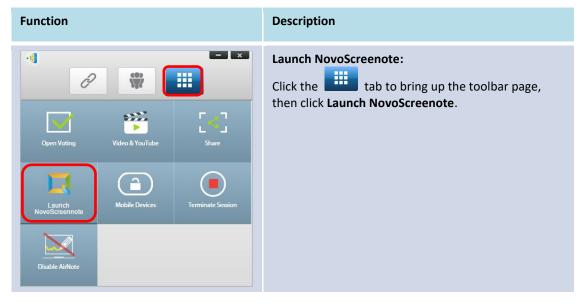


When you click the green play button in the middle of the button pad your desktop will be mirrored on the full screen of the display.

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.

You can mute the audio from your computer by clicking the mute button

**Notes:** 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 <a href="http://www.vivitekcorp.com">http://www.vivitekcorp.com</a>. 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 *3.5 Direct Annotations*.



#### 3.1.4 Step 4: Presentation management

#### 3.1.4.1 Moderator



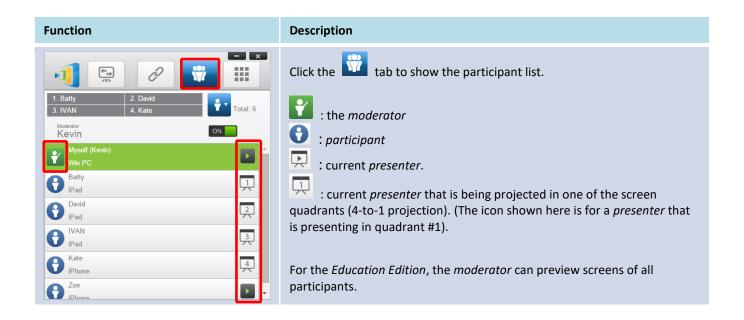


#### 3.1.4.2 Role assignment

There are three roles in a presentation session, the *moderator*, the *presenter*, and the *participant*. The first *participant* to start the presentation session is assigned as the *moderator*. Individuals that join subsequently are *participants*.

By default, the *moderator* assumes the *presenter* role until he hands it over to another *participant*.

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



Example 1:	Indicate the names of the presenters, the participant list sorting method, and the total number of <i>participants</i> .	
	Sorting in the participant list	
Example 2: 1. Batty 2. IVAN 3. David 4. Kate Total: 6	<ul> <li>is sorted by participants' name</li> <li>is sorted by the "join" time (most recent on top).</li> <li>Toggle between is to change the list sorting method.</li> <li>Example 1: Kevin is the only <i>presenter</i>. The participant list is sorted by participants' name. There are currently 6 <i>participants</i>.</li> <li>Example 2: Batty, Ivan, David and Kate are 4 <i>presenters</i>. The participant list is sorted by the "join" time (most recent on top). And there are currently 6 <i>participants</i>.</li> </ul>	

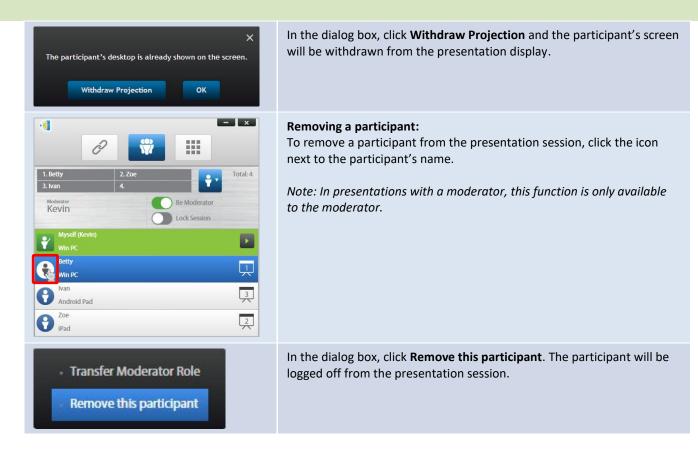
## **3.1.4.3** Role change, screen preview, 4-to-1 projection, withdraw projection, and remove a participant

(Note: For Education Edition the moderator can preview screens of all participants.)

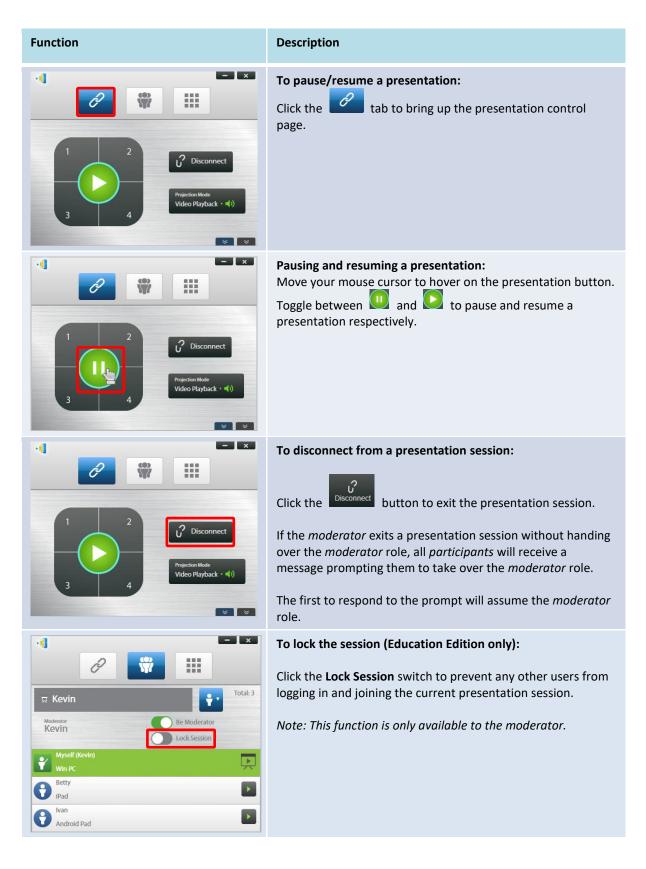
Function	Description
Image: Second secon	Role change: transfer the moderator role         Click the       Itab to list all participants. If you want to transfer the         moderator role to another participant, click on the participant's       Itab         icon.       Note: only the moderator is allowed for this operation.





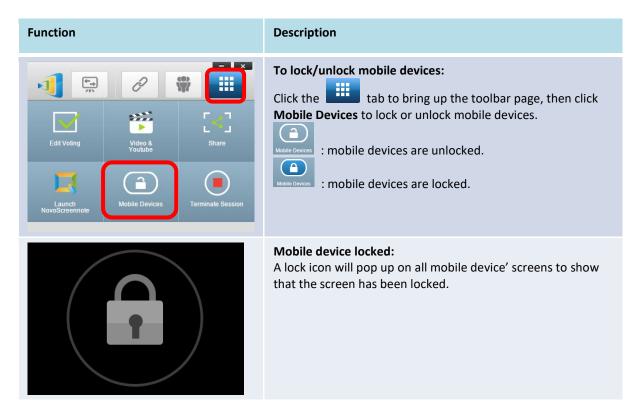


### 3.1.4.4 Pause, resume, disconnect and lock session

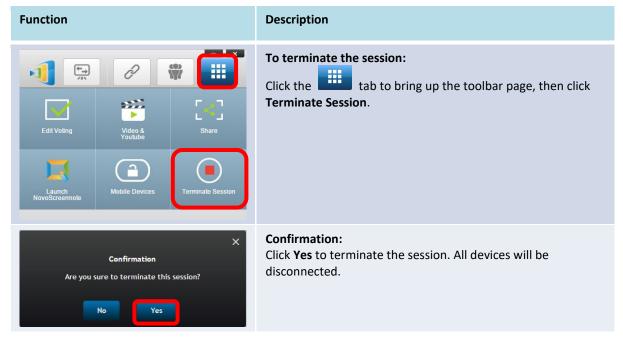


## 3.1.4.5 Lock/Unlock students' tablets/phones (Education Edition only)

This feature allows the moderator to lock down student tablets. This feature is only available in the *Education Edition*.



### 3.1.4.6 Terminate session (Education Edition only)



## **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 **u** on your

iPad.

To make a presentation, follow the steps below:

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

#### 3.2.1 Step 1: Connect to your NovoTouch

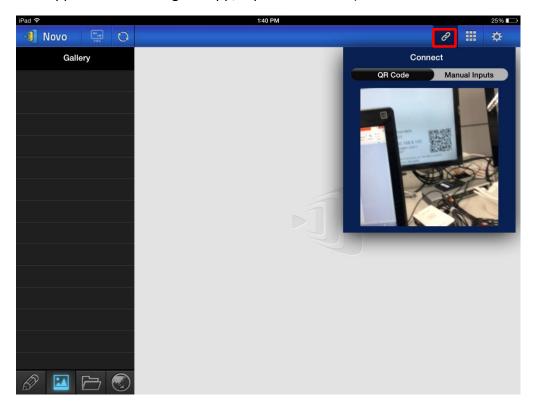
There are two ways to connect to your NovoTouch:

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

#### 3.2.1.1 Connect via QR Code

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

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



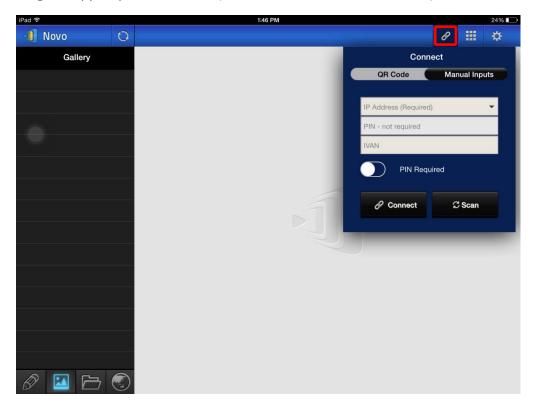
Function	Description
Connect OR Code Manual Inputs	<ul> <li>Connect via QR Code:</li> <li>The QR Code / Manual Inputs switch will be in the QR Code position by default (if not, just tap the switch once).</li> <li>Aim your tablet's camera at the QR code.</li> <li>If the network connection is set up properly, <i>NovoPresenter</i> will automatically login to your NovoTouch.</li> <li>Should automatic login fail, you may check for your network connection or try manual login (Section 3.2.1.2).</li> </ul>
Image: Descent equation of the second equation of the sec	<ul> <li>Successful Connection:</li> <li>After NovoPresenter is connected successfully to your NovoTouch, the connection tab will become lit up .</li> <li>If you are the first participant, you will see that your iPad screen is mirrored to NovoTouch's screen.</li> <li>You can turn on/off the PIN switch to enable/disable the use of the PIN code for the presentation session.</li> </ul>
Novo       PN       IP 192.168.43.1       IP 192.168.43.1       IP IP	<ul> <li>View participants list: You can tap the interpretation table to see the participant list.</li> <li>Example: There are a total of six participants in the presentation group shown at left.</li> <li>The moderator is Ivan.</li> <li>Ivan is not making a presentation</li> <li>Batty David Kate, and Kovin are</li> </ul>

• Batty, David, 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 NovoTouch.

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



Function	Description
Connect QR Code Manual Inputs	Manual configuration option: Toggle the QR Code / Manual Inputs switch to the Manual Inputs position.
IP Address (Required)	
PIN Required	

Connect CR Code Manual Inputs 192.168.43.1 PIN - not required IVAN PIN Required Connect CS Can	<ul> <li>IP Address:</li> <li>Manually enter the IP address shown on your NovoTouch Remote Viewer home screen, or select an entry from the drop down menu that matches the IP address shown on your NovoTouch Remote Viewer home screen.</li> <li>You can tap the Scan button to scan the IP addresses of all available NovoTouch displays within the same subnet. Select the drop-down menu to see the available NovoTouch displays within your area.</li> <li>Example: 192.168.43.1.</li> <li>NOTE: For NovoTouch displays that have the device name and IP address bound via the DNS mapping procedure, you may also enter the NovoTouch's device name in this field. See 5.3 DNS Mapping for more information.</li> </ul>
PIN PIN Required PIN Required	<ul> <li>PIN:</li> <li>If a PIN code is required to connect to the NovoTouch, slide the PIN Required switch to the ON position and enter the PIN shown on the NovoTouch Remote Viewer home screen.</li> <li>If the PIN code is not required, slide the PIN Required switch to the OFF position.</li> </ul>
Your Name	Your Name: (Optional) Manually enter a name for this tablet to be identified by in this presentation session. Example: Jennifer. (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 Connect Connect	Make Connection:         Tap the Connect button.         If you are the first participant, this will start a presentation session on your NovoTouch.         If you are not the first participant, you will be joining a presentation session.

#### NovoTouch Remote Viewer User Manual

After your *NovoPresenter* app connects successfully to your NovoTouch, the

connection tab will become lit up

that your iPad screen is mirrored to

You can turn on/off the PIN switch to

If you are the first participant, you will see

enable/disable the use of the PIN code for the





#### **View participants list:**

**Successful Connection:** 

NovoTouch's screen.

presentation session.

You can tap the 📅 tab to see the current participant list.

Example: There are a total of six *participants* in the presentation group shown at left.

- The *moderator* is Ivan.
- Ivan is not making a presentation
- Batty, David, Kate, and Kevin are assigned to be the four presenters.

#### **Switch Mirroring:**

The Switch Mirroring Mode button allows you to return to the NovoTouch Remote Viewer home screen on the display without exiting the presentation session.

By activating the Switch Mirroring Mode button, login information for the session will be accessible to users of iOS or Android devices who then have the ability to mirror their screens using AirPlay or Miracast during an already ongoing session. See 3.3 iOS/Android Full Mirroring, for more information.

NOTE: The Switch Mirroring Mode button can only be activated by the moderator of the 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



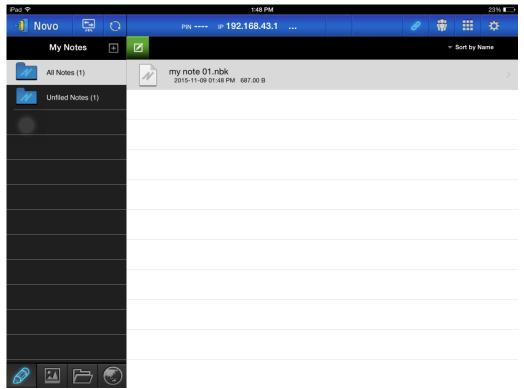
Image: Gallery – browse and show images/videos stored on your iPad

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



: Web – browse the Internet

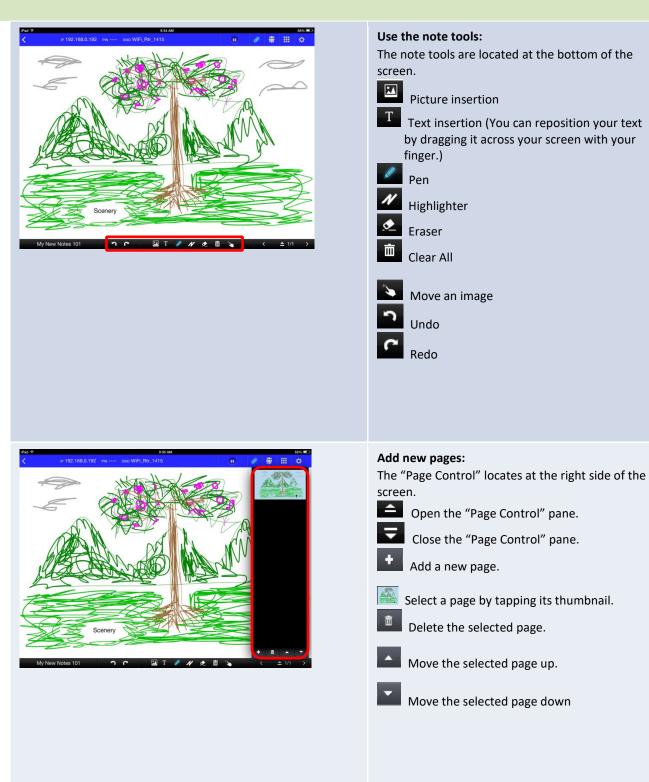
#### 3.2.2.1 My Notes

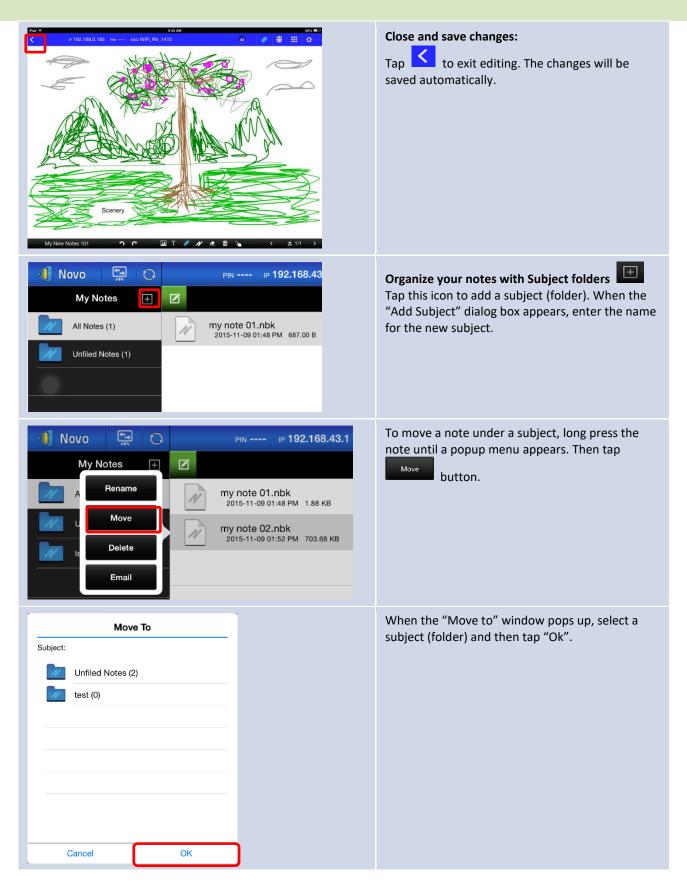


#### Create and share custom screen notes

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

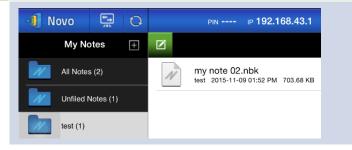
Function	Description
More the set of the set	Launch My Notes: Tap at the bottom left corner of the screen
Novo       Image: Constraint of the second sec	Create a new note: Tap at the top of the screen.
Add Note       Please enter its name:       Cancel	Enter a note name: Type a name for your note in the "Add Note" dialog box and tap Yes.
Max     # 20 AM     # 20 AM            • 102.168.0.102 mm ···· max WiFLRr_1415           • 1         • 1         • 1	<b>Start making a note:</b> A blank note is ready.



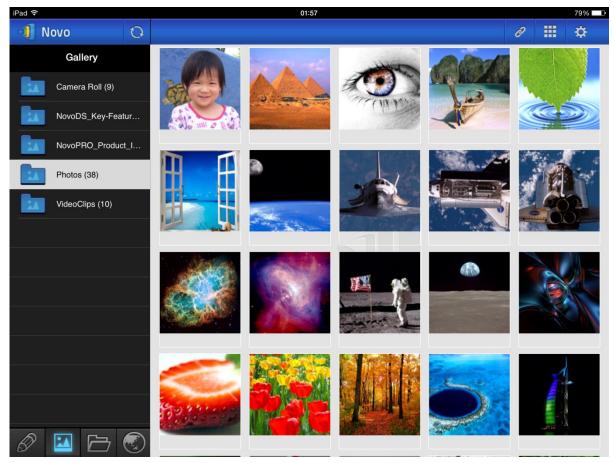


The chosen file has been moved to the selected

subject (folder).



### 3.2.2.2 Gallery

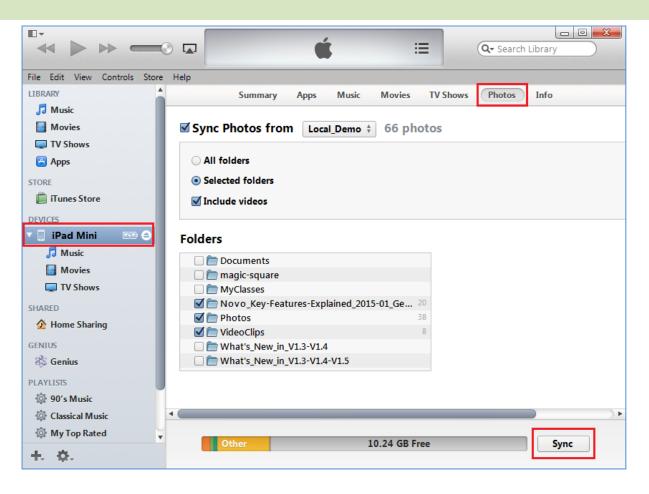


To import images/videos to an iPad, you can follow the steps described below.

- (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.

#### NovoTouch Remote Viewer User Manual

### **Novo**Touch



#### 3.2.2.3 Documents (Local Storage)

🜗 Novo 🖷 🤅	PIN IP 192.168.43.1	2 🏶 🎞 🌣
Documents	<	✓ Sort by Name
Local Storage	.aide	
GroupShare	.estrongs	
My Dropbox	Alarms	
My Google Drive	Android	
	Арр	
	AppProjects	
	backups	
	DCIM	
0 🖬 🗁 📀	Download	

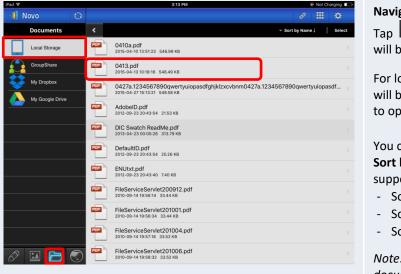
To import images/videos to an iPad, you can follow the steps described below.

- (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 center-top 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

#### Navigate document list:

Tap 🖾 tab to access Documents. The folder icon will become lit up.

For local storage, tap

Local Storage . Documents

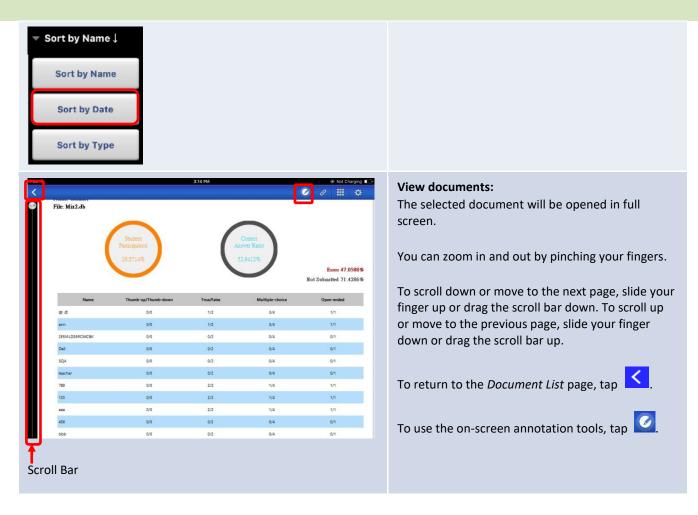
will be listed on the right pane. Tap the desired one to open for viewing.

You can change sorting method by tapping button **Sort by...**. The following sort-by methods are supported:

- Sort by Name (default)
- Sort by Date
- Sort by Extension

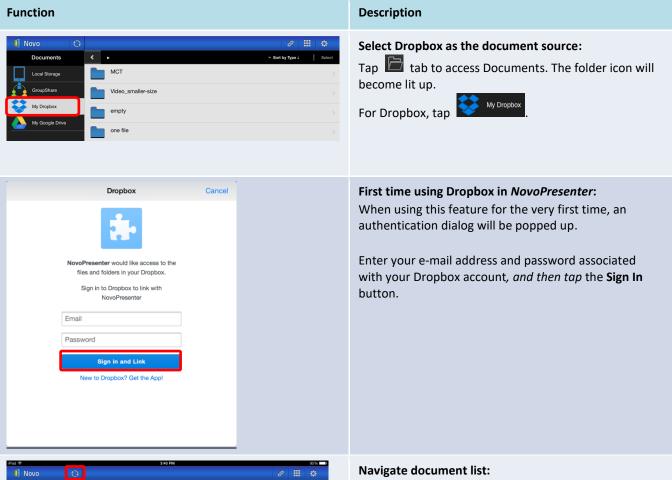
Note: You can tap the 🔯 tab to refresh the document list.

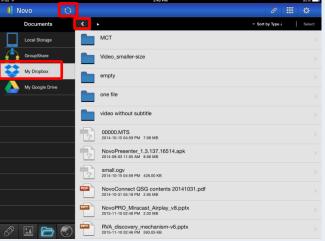
NovoTouch Remote Viewer User Manual



### 3.2.2.4 Documents (Dropbox)

iPad ᅙ			3:40 PM			95% 📖
Novo	0			P		¢
Documents		<	▼ Sort	by Type↓		Select
Local Storage			MCT			
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			
		POF	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			
		PPT	RVA_discovery_mechanism-v6.pptx 2015-11-10 02:46 PM 593.05 KB			





By default, your Dropbox's home directory is shown. Navigate to a folder by tapping the desired folder.

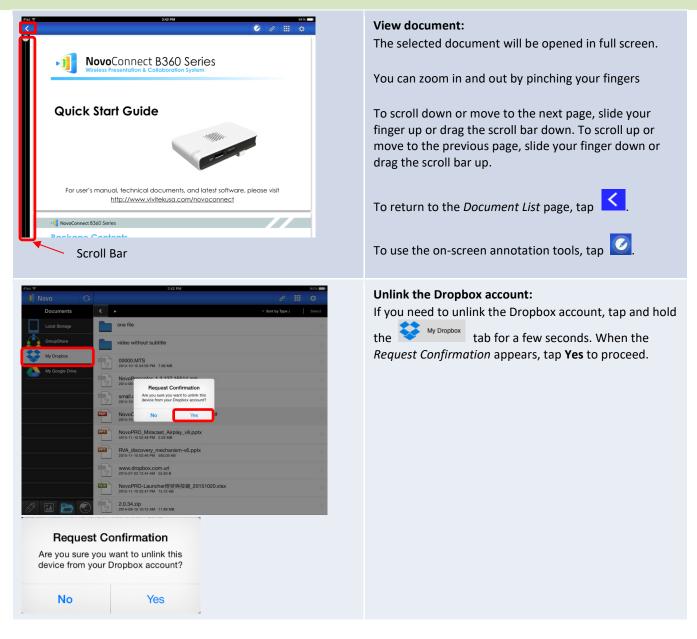
You can change sorting method by tapping button Sort by....

Note:

- Tap the 🚺 tab to return to the parent folder. •
- You can tap the VI Dropbox tab to go back • to Dropbox's home directory.
- You can tap the 🖸 tab refresh the • document list.



#### NovoTouch Remote Viewer User Manual



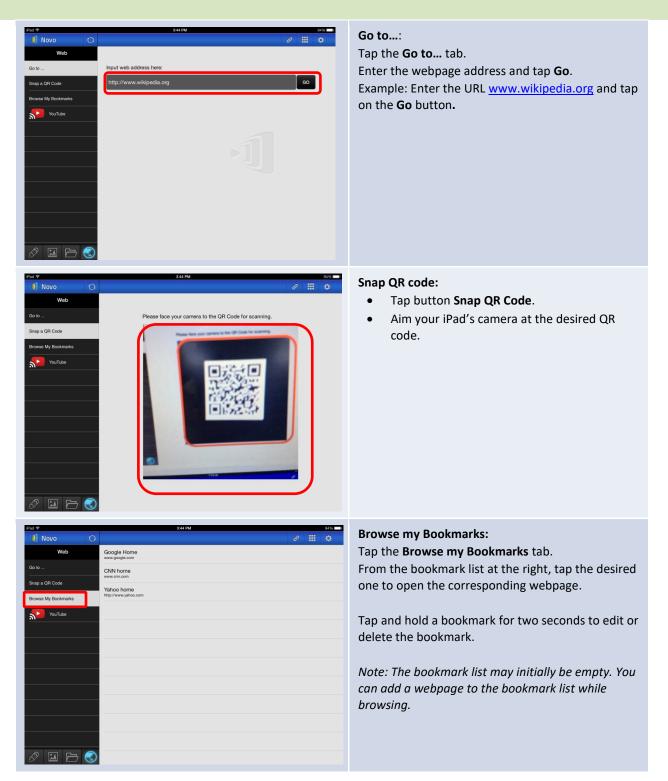
#### 3.2.2.5 Web

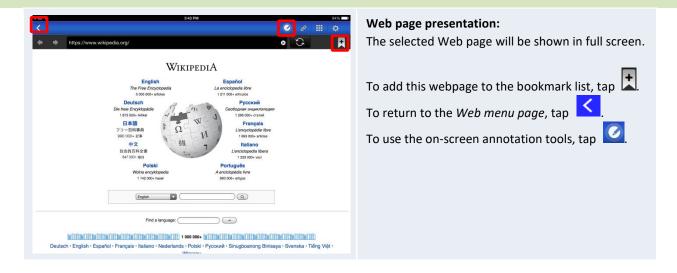
You can open any website for sharing with *NovoPresenter*. An example screen is shown below.



Deutsch · English · Español · Français · Italiano · Nederlands · Polski · Русский · Sinugboanong Binisaya · Svenska · Tiếng Việt ·

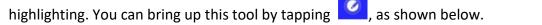
Function	Description
Novo     Image: Constraint of the second secon	<ul> <li>Browse a webpage:</li> <li>Tap the internet tab  C. It will light up blue.</li> <li>Select one of the three options to access a Web page:</li> <li>Go to (enter webpage address[default])</li> <li>Snap a QR Code</li> <li>Browse My Bookmarks (Web site bookmarks)</li> </ul>



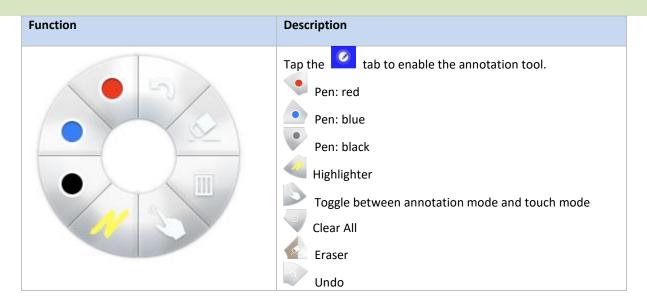


#### 3.2.2.6 Annotation

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



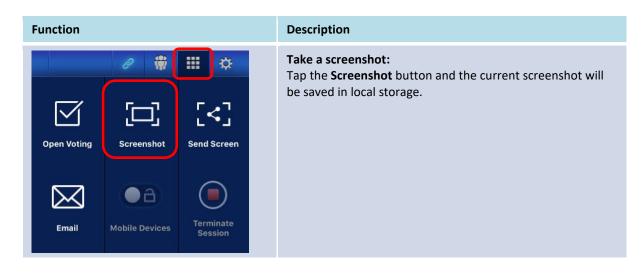




#### 3.2.2.7 Screenshot

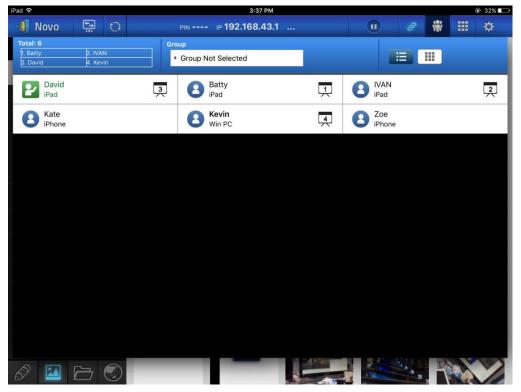
This feature allows users to take tablet screenshots.

iPad 🗢	3:34 PM			④ 32% □
🜗 Novo 🖷 🔾	PIN IP 192.168.43.1		0	## Ø
Documents	<			
Local Storage	Mix2.db 2015-10-30 14:11:08 54.00 KB			[<]
GroupShare	NavigationItemProbes.pdf 2015-03-20 18:12:44 207.34 KB	Open Voting	Screenshot	Send Screen
My Dropbox	POF quiz.pdf 2015-01-29 16:09:44 104.06 KB	$\boxtimes$		
My Google Drive		Email	Mobile Devices	Terminate Session
			_	_
1				



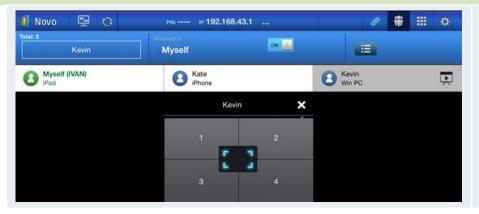
#### 3.2.3 Step 3: Manage the presentation

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



#### 3.2.3.1 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*. The first *participant* to start the presentation session is assigned as the *moderator*. Individuals that join subsequently are *participants*.

By default, the *moderator* assumes the *presenter* role until he hands it over to another *participant*.

To show all current *participants* who have joined the presentation session, tap the  $\frac{1}{100}$  tab.

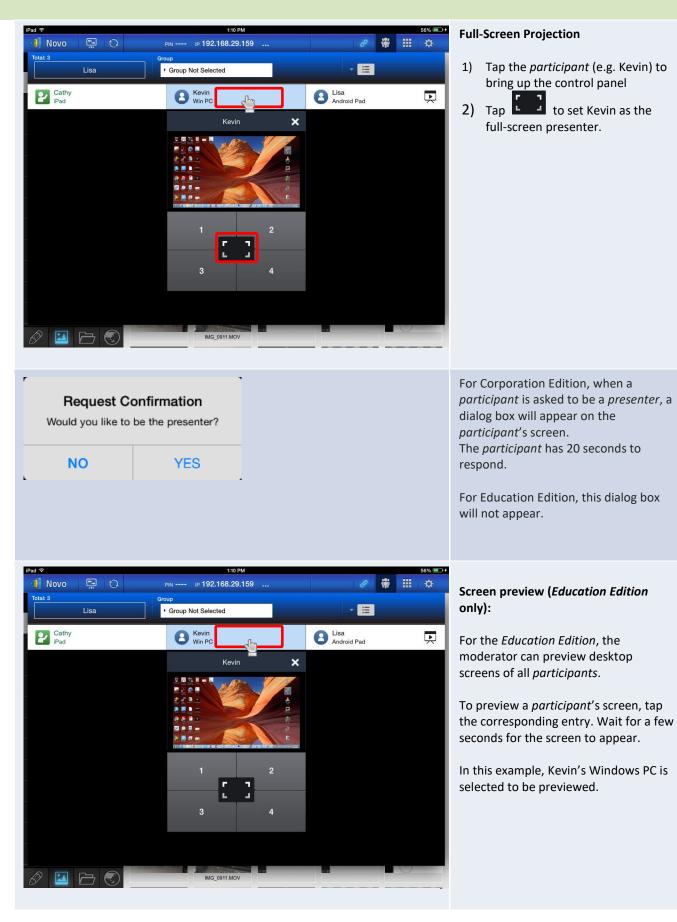
Function	Description
Novo PN   Proup   Coup   Coup  <	Select the $\widehat{participant}$ tab to show the participant list. $\widehat{participant}$ : the moderator $\widehat{participant}$ : the moderator $\widehat{participant}$ : current presenter $\widehat{participant}$ : current presenter that is being projected in one of the screen quadrants (4-to-1 projection). (The icon shown here is for a presenter that is presenting in quadrant #1). Example: There are six participants in the presentation session (3 iPads, 1 Windows PC, 1 Android phone, and 1 iPhone.) Kate, Batty, David, and Kevin are presenters in 4-to-1 projection.
Example 1: Total: 2 IVAN Example 2:	Total <i>participants</i> and current presenter(s). Example 1: Currently there are 2 <i>participants</i> and Ivan is the only <i>presenter</i> in full-screen projection. Example 2: Currently there are 6
	participants. Kevin, Kate, Batty, and

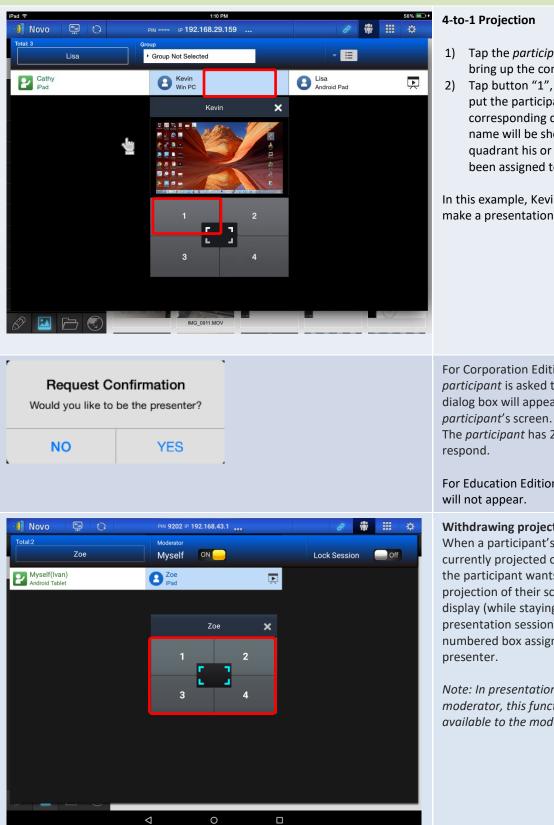
Total: 6	
1. Kate	2. Batty
3. David	4. Kevin

David are 4 *presenters* in 4-to-1 projection.

# **3.2.3.3** Role change, screen preview, four-way split screen, withdraw projection, and remove a user

Function			Description
Total: 6 1. Kate 2. Batty 3. David 4. Kevin Pad Pad Phone	PIN IP 192.168.43.1	David Pad Pad Pad Pad Pad Pad	role Tap 📅 tab to show the <i>participant</i>
On moderator's scre <b>Request Co</b> Transfer moderat	onfirmation		A confirmation dialog pops up. You have 20 seconds to respond.
NO	YES		
-	een: onfirmation be the moderator? YES		After the moderator confirms the role transfer, a dialog box will appear on the <i>participant</i> 's screen to ask his/her confirmation. The <i>participant</i> has 20 seconds to respond.





- 1) Tap the *participant* (e.g. Kevin) to bring up the control panel
- Tap button "1", "2", "3", or "4" to put the participant in the corresponding quadrant. The user name will be shown in the guadrant his or her device has been assigned to on the display.

In this example, Kevin is assigned to make a presentation in Box #1.

For Corporation Edition, when a participant is asked to be a presenter, a dialog box will appear on the The *participant* has 20 seconds to

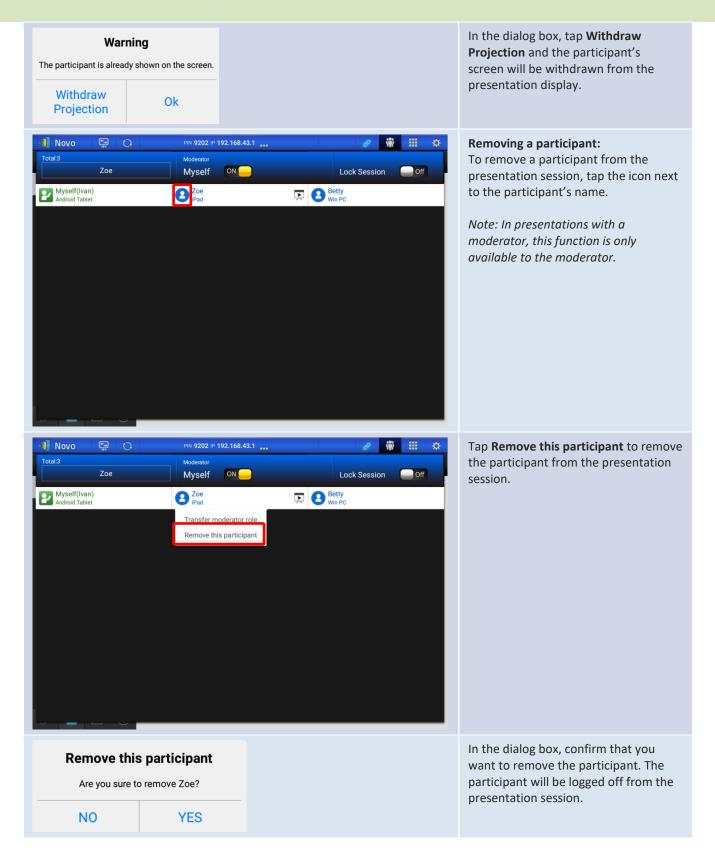
For Education Edition, this dialog box

#### 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), tap the numbered box assigned to the

Note: In presentations with a moderator, this function is only available to the moderator.

NovoTouch Remote Viewer User Manual



### 3.2.3.4 Pause, resume, disconnect and lock session

Function	Description
	Pause and resume a presentation: While presenting, the presenter can toggle between and to pause and resume the presentation respectively.
IVAN, You are connected. IP 192.168.43.1 PIN IM OFF	Disconnect from a presentation session: Tap Disconnect button to exit the presentation session. If the moderator exits the presentation session without handing over the moderator role, all participants will receive a message prompting them to take over moderator role. The first to respond to the prompt will assume the role of moderator.
Novo PN 5135 IP 192.168.43.1     Totald     1. Kevin     2. Betty     Android Tablet     Image: Control of the second secon	To lock the session (Education Edition only) Tap the Lock Session switch in the participant list screen to prevent any other users from logging in and joining the current presentation session. Note: Only the moderator can lock a session.

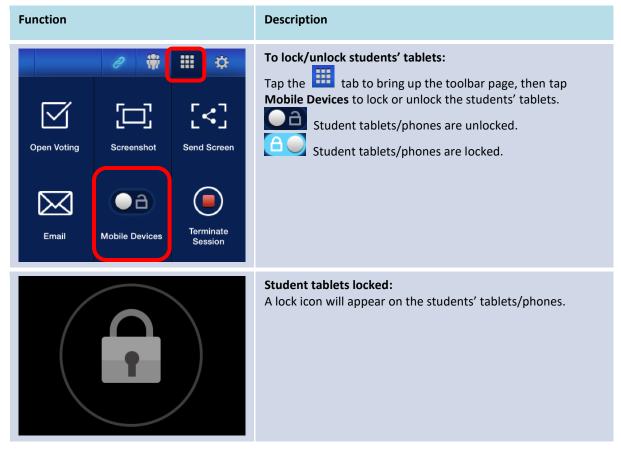
#### 3.2.3.5 Reset

In case you run into cases where NovoTouch Remote Viewer may have weird behavior or lock up, you could reset NovoTouch Remote Viewer from your iPad.

Function	Description
Image: IVAN   Connect as Moderator   User Groups   Screen Mirroring Quality   Novo Lookup Server   Software Version: 2.1.0_trunk_25082   Remote Device   Device's Reset   © 2013 Delta Electronics, Inc. All right reserved.	Reset NovoTouch Remote Viewer:         First tap       Itab and tap       Image: Comparison of the Device's Reset window.
Image: Construction of the section of th	<ul> <li>Quick Reset and Full Reset:</li> <li>Tap Quick Reset to do a soft reset (restarting the software on NovoTouch).</li> <li>Tap Full Reset to do a hard reset (restarting NovoTouch Remote Viewer)</li> <li>Conflicts may occur when multiple <i>participants</i> simultaneously attempt to reset NovoTouch Remote Viewer. The reset priorities are as follows:</li> <li>Moderator: The moderator has the sole privilege to Quick Reset and Full Reset when the moderator stays connected to the NovoTouch.</li> <li>Presenter: If the moderator loses connection to the NovoTouch, the current presenter inherits the privilege to Quick Reset and Full Reset.</li> <li>Participant: If the moderator and all presenters lose connection to the NovoTouch, any participant can perform Quick Reset and Full Rest.</li> </ul>

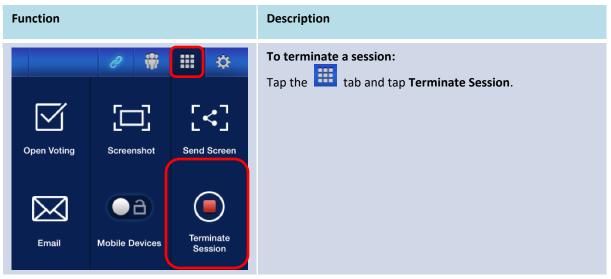
### 3.2.3.6 Lock/Unlock students' tablets (Education Edition only)

This feature allows the moderator to lock down student tablets/phones. This feature is only available in the *Education Edition*.



### 3.2.3.7 Terminate session (Education Edition only)

The moderator can disconnect all devices with one touch. This feature is only available in the *Education Edition*.





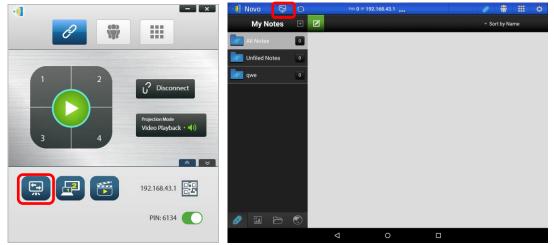
### 3.3 iOS/Android Full Mirroring

When NovoTouch Remote Viewer 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. This is true even when collaboration connections are already set up using *Desktop Streamer* or *NovoPresenter* app. To do so the moderator should follow the steps below:

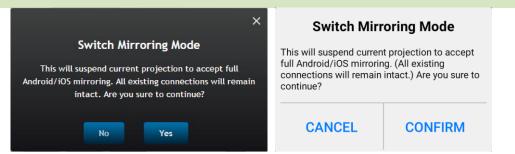
1. [For Dekstop Streamer Only] Click the left options menu button on the connections page.



2. Click the "Switch to mirroring mode" button.



3. Then a pop up window asks you to confirm you'd like to switch to mirroring mode. Once you confirm your choice, NovoTouch Remote Viewer will return back to its home screen to allow you to start iOS/Android full mirroring by following the steps described in 3.3.1 and 3.3.2.

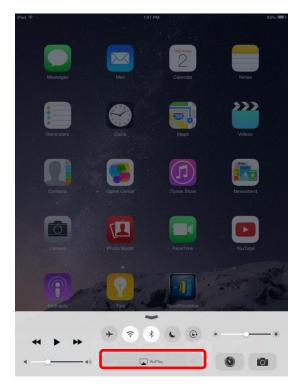


*Note: After the iOS/Android device has finished mirroring its device, the moderator can return to the original presentation session by pressing any of the buttons on the projection button pad.* 

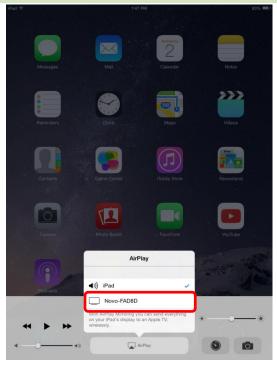
#### 3.3.1 iOS Full Mirroring

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

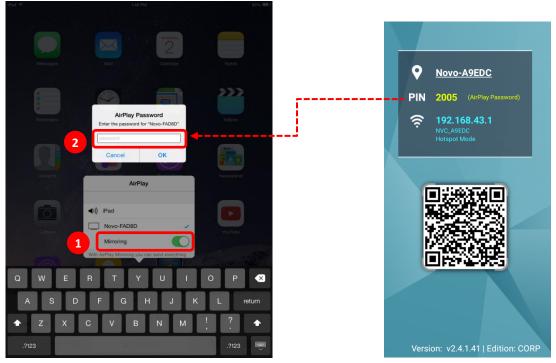
- 1. Connect your iPad/iPhone to the same network where your NovoTouch stays.
- 2. Swipe up from the bottom of the iPad or iPhone to show the Control Center.



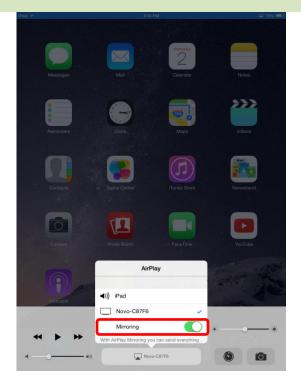
3. Tap AirPlay and select NovoTouch's AirPlay device name. By default NovoTouch's AirPlay device is named as "Novo-XXXXX", where XXXXX is a device-generated name.



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

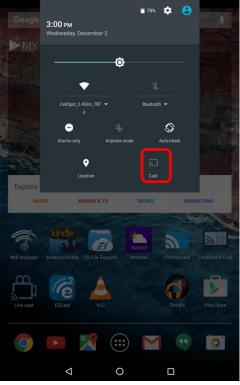


#### 3.3.2 Android Full Mirroring

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

Please 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.

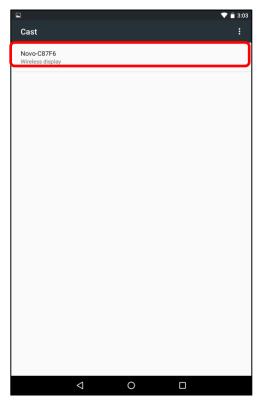
- 1. Connect your Nexus 7 the same network as your NovoTouch.
- 2. Swipe down from the top of Nexus 7 to show the Control Center, and then tap **Cast** button.



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 NovoTouch in the list, tap "MORE SETTINGS".

Google		<b>7</b> 4%	<b>\$ 8</b>	J
	Cast			
Explore				
ML				TAND
		MORE SETTINGS	DONE	Mar I
Wifi Analyzer	Amazon Kindle ES File E	xplorer Weather	Chromecast	Dashboard Cast
Live cast	EZCast	c	Google	Play Store
9				0
	$\bigtriangledown$	0		

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



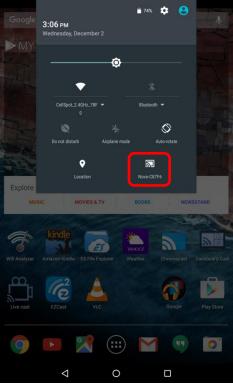
5. Establishing such a connection could take up to 15 seconds. The following "**Connecting...**" message may appear.

	🔊 文 📋 3:03
Cast	:
Novo-C87F6 Connecting	\$

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

	🔊 💎 📋 3:04
Cast	:
Novo-C87F6 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 NovoTouch's name ("Novo-xxxxx").



8. Tap 🗵 icon to stop the Miracast session.

Google	Cast	<b>a</b> 74%	\$ ⊖	
	Novo-C87F6 Connected		٢	
Explore Mu		MORE SETTINGS	DONE	ITAND
Wifi Analyzer	Kindle Amazon Kindle ES File Ex	xplorer	Chromecast	Dashboard Cast
Live cast	EZCast		Google	Play Store
9				0
	$\bigtriangledown$	0		

## 4. Collaboration Tools

NovoTouch 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.



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.



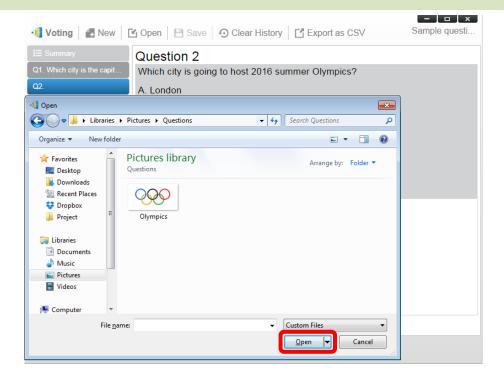
3. Enter the text of your question by clicking on the text field at the top. If the question is a multiple-choice question, please label the choices as "A.", "B. ", "C.," etc.



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 Thumb Up/Down Done Delete	

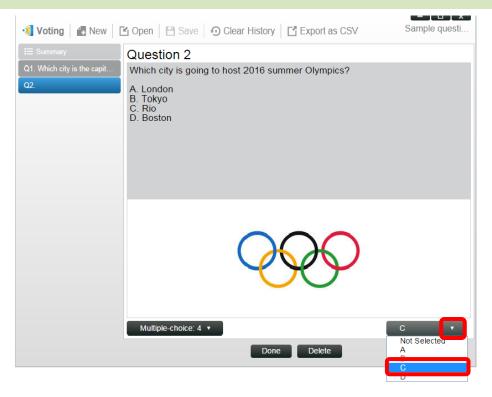
Select the image (.png, .jpeg, .jpg) and click "Open." The image should now appear below the text area.



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

🗐 Voting 🛛 🖪 New 🛛	🖌 Open   🖻 Save   🖸 Clear History   🗗 Export as CSV Sample questi	
Voting     Aew       Image: 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	
	Multiple-choice: 4 * Not Selected *	
	ThumbUp/Down True/False Done Delete	

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.



- 7. 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.

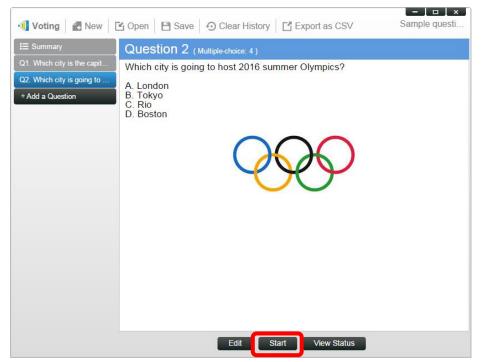
#### 4.1.2 Administer voting/polling

#### Start voting

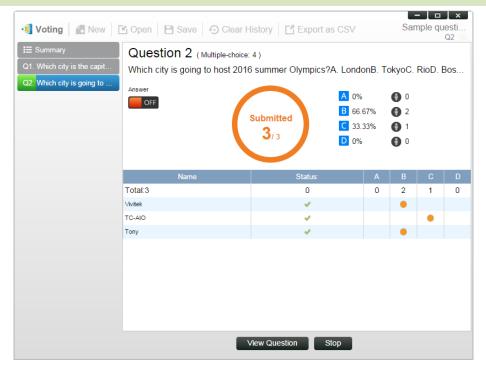
1. Click on the "Tools" tab and select "Edit Voting." This will open the Voting window.



- 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.



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.

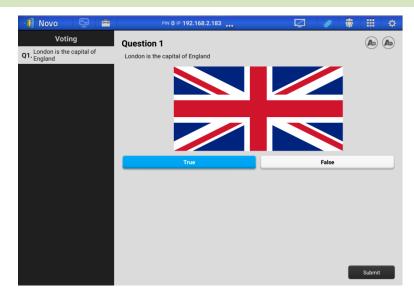


- 5. To return to the question, click "View Question."
- 6. The *moderator* needs to stop the current voting before starting another voting question,.
- 7. At the end of the voting/polling session, you can export the result as a CSV file by clicking "Export as CSV."

#### 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** 

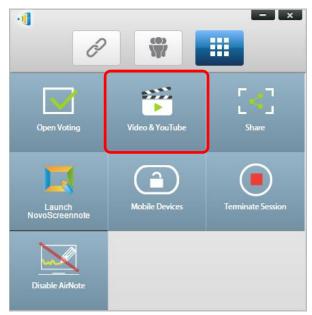
# 4.2 Video Clips and YouTube Streaming

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

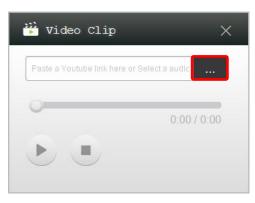
Please note that only the presenter in full-screen projection is able to use this feature. (Presenters in 4-to-1 projection are not able to do so.)

# 4.2.1 Streaming local video files

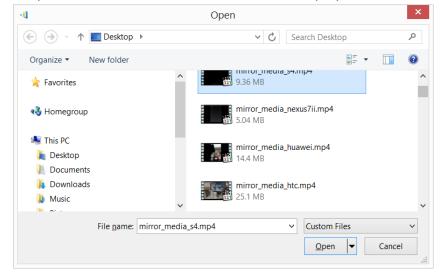
1. From the "Tools" menu, click on button "Video & YouTube".



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.

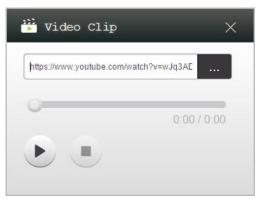


# 4.2.2 Streaming YouTube video

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

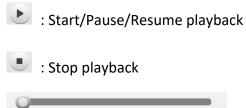


2. When the video player bar open, paste or type the URL for the YouTube video you wish to play in the window.



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

### 4.2.3 Video controls



0:03 / 13:08

: Progress bar. You can skip forward/backward by moving its control knob.

# 4.3 File Sharing

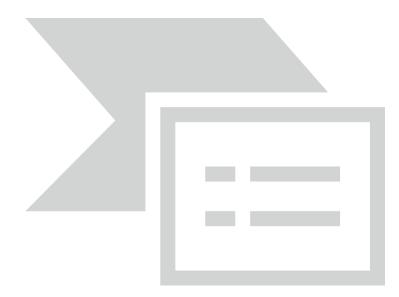
This feature allows the *moderator* and *participants* to shares resources (like files, screenshots, and webpage links) between their devices. The *moderator* can send resources to all *participants* while a *participant* can only send resources to the *moderator*.

### 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.

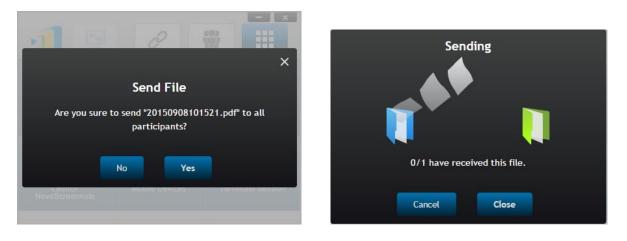
- 2. Clicking on this button will bring up five options
  - a. Share a File: Select a file for sharing
  - b. <u>Send Desktop Screenshot</u>: Send the current deskstop screenshot for sharing.
  - c. <u>Share a Webpage</u>: Send a webpage link for sharing.
  - d. <u>Browse "GroupShare" Folder</u>: Open 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

#### <u>Share a File</u>

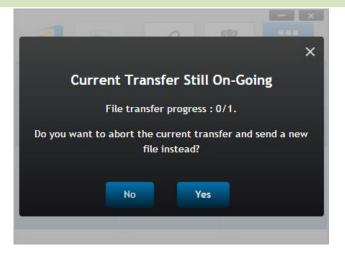
 To share a file, click on "Share File" to bring up a file explorer. Select the desired one to continue. You will be prompted with the following dialog on the left. If you click on "Yes", a status dialog (on the right) will appear. You have the option to click on "Cancel" to abort the transfer.



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

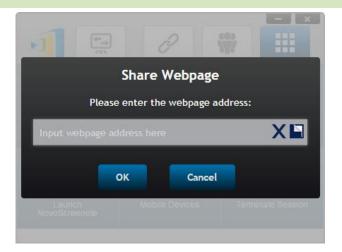
1. To send the current desktop screenshot, click on "Share Desktop Screenshot" to start the process. A dialog box will appear after a few seconds, as shown below.

		Send Screen	
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	😫 🛄 🖪 🛄 🖉	LE	<u></u>
AND N N AND ADDRESS OF A DATA STRATEGY AND A STRATEGY AN	e 🖪 🖉 🖉 🖉		
4 6 <b>7 8 6 9 5 1 8 6 9 5 1 8 0</b> •	Ø 🛯 🖉 🖓 🖓	u D	<b></b>
		a a la G e la G	
	i o you sui o co se	end this screenshot to al	, par cicipanes

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

### Share a Webpage

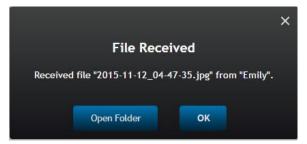
 To send a webpage link, click on "Share a Webpage..." to start the process. A dialog box will be prompted for the user to enter the webpage link, as shown below.



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.)

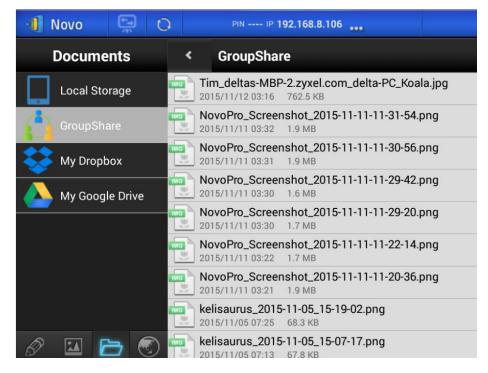


You have the options of opening the storage folder or opening the webpage link with your default browser.

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.



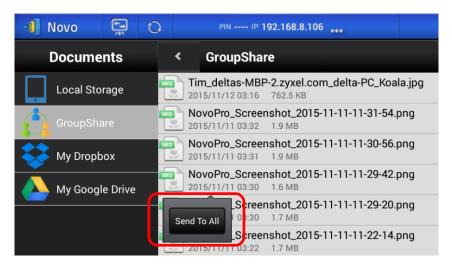
### 4.3.2.1 Sending

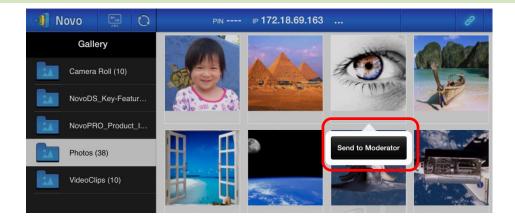
Share a File/Image

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.

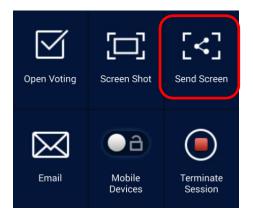
Then follow the on-screen instructions to start the transfer process.





#### 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"

📲 Novo	<b>€</b> ) Æ	0	PIN	₽ 172.18.69.163		
We	b		Google Home			
Go to			CNN home			
			www.cnn.com		Edit	
Snap a QR Code						
			Yahoo home http://www.yahoo.com		Delete	
Browse My Bookm	arks				Share Webpage	
					onale webpage	
Received Webpage	e Address	es				
YouTube	9					

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



Notes: 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 presentation session. In this case, only participants with a matching name can connect successfully.

Group		Moderator (Teacher)
Name:	Math Class	Name: Kevin Device: (Optional)
Memb	ers (Students)	+ Member
A	Emily	
U	(Optional) Device	
0	David	
U	(Optional) Device	
	Robert	
0	(Optional) Device	
	Jessica	
0	(Optional) Device	
Ŷ	Willson	Ī _
	(Optional) Device	

#### 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 presentation 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.

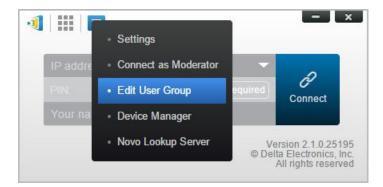
Group	)	Moderator (Teacher)	
Name:	Math Class	Name: Kevin	
		Device: (Optional)	
Memb	ers (Students)		+ Member
0	Emily		
U	Tablet-01		
9	David		
0	Tablet-02		
0	Robert		
0	Tablet-03		
0	Jessica		
0	Tablet-04		
•	Willson		-
	Tablet-05		<b>— ^</b>

### 4.4.2 Creating User Group

#### **Creating User Groups Manually**

*Notes: This feature is available to Desktop Streamer for PC/Mac but not to Chromebook/tablet/phone Apps.* 

1. Open the *Deskstop Streamer* application and expand "Settings" tab. Click on button "Edit" to add, change, and delete user groups.



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

∢]		- X
IP address (required) PIN: Your name	▼	Соппест
User Groups Create Import		
Math Class     test		(5) Kevin (30) teacher
	© Deli	ersion 2.1.0.25195 ta Electronics, Inc. All rights reserved

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.

#### Saving a Presentation Session as a User Group

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.

- ×	📲 Novo 🚍 🗘	PIN 9202 IP 192.168.43.1 ***	2 0 🗰 🏭 🌣
8 😲 🏢	Total:4	Lock Session	: =
	Android Tablet	B Kevin Win PC	Betty Win PC
👳 Ivan 📑 📑	2oe IPad		
Lock Session Total: 4			
Myself (Kevin) Win PC			
Betty Win PC			
Van Android Pad			
Voe IPad		d 0 ⊑	

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

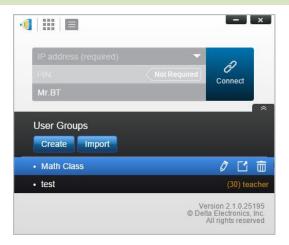
	- ×	🕕 Novo 📮 🔾	PIN 9202 IP 19	2.168.43.1 🔐	2 0 🗰 🖽 🌣
2	*	Total:4	Lock Sessio	on Off	: =
		Ivan Android Tablet	Revin Win PC		Choose User Group Save User List
⊐ Ivan	Choose User Group	2 Zoe iPad			
	Save User List				
Lock Session	tal: 4				
Myself (Kevin)					
Win PC					
Win PC					
Nan Ivan					
Android Pad	►.				
Zoe					
iPad IPad			$\bigtriangledown$	0	

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

Add Group	Add (	Group
Please enter group name: Enter Group Name	Please enter	group name:
Save Cancel	Cancel	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.



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

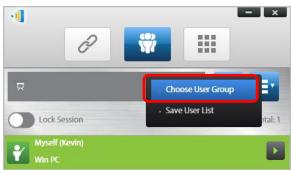
### 4.4.4 Applying User Group

#### Windows/Mac

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



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



3. Select the desired group.

	>
Math (3) Kevin	
Kevin	

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.



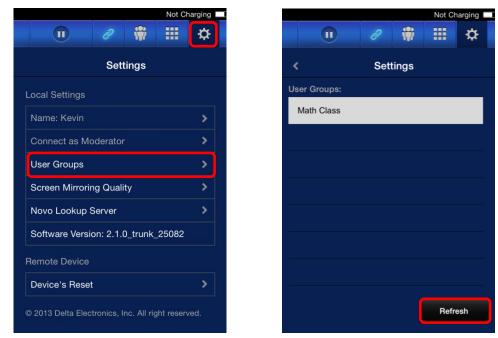
5. To de-select this group, click on the user group button and then click "De-Select this Group".



#### <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

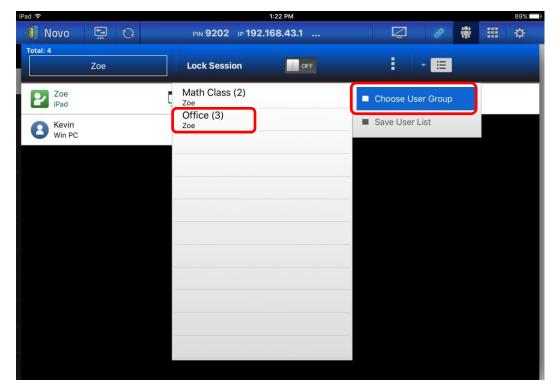
 Launch NovoPresenter. Go to "Settings" → "User Groups" → "Refresh" to import the User Group files you just copy.



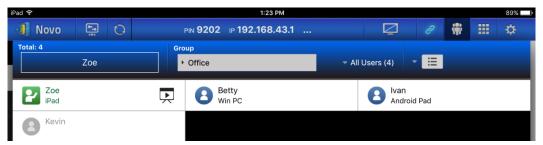
3. After connecting to the NovoTouch, tap the user groups button.



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



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.



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

ad ବ	1:23 PM				89%
🌒 Novo 🖼 🕻	PIN 9202 IP 192.168.43.1	Q	0	•	₽
Total: 4	Group				
Zoe	✓ Office	✓ All Users (4)	• 🗄		
Zoe	× De-select this group	<b>B</b> Ivan	antar st		
iPad	Math Class (2)	Androi	d Pad		
Kevin	Zoe				
•	Office (3)				
	Zoe				

#### **Android Tablets**

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

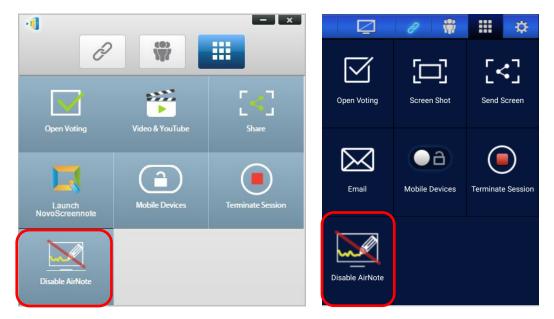
The rest of the operation is the same as the iPad's.

# 4.5 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

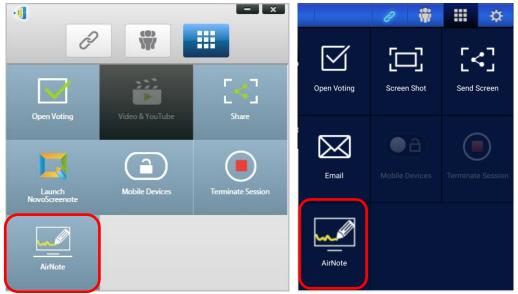
When a participant's screen is projected as a full screen presentation on a device they may enable other participants to directly annotate on the screen from their device via the AirNote button in the collaboration tools menu.



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".

### 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 are the same as the note tools used in the Note function for Desktop Streamer. See 3.2.2.1 My Notes for more information on the note tools.

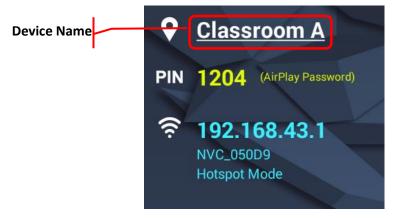


IMPORTANT: Only NovoPresenter participants using a tablet are able to draw annotations on their device. Smartphones users are unable to draw annotations due to screen size, and are only able to allow other participants to annotate on their projected screen.

# **5. DNS Mapping**

DNS mapping is a capability that allows network technicians to bind the device name and the IP address of a NovoTouch 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.



		1			- ×
Device Name in IP Address			Classroom A 1204	Required	<b>P</b> Connect
	-		lvan	_	

DNS mapping is allowed on the NovoTouch 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.



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