



# NovoPro

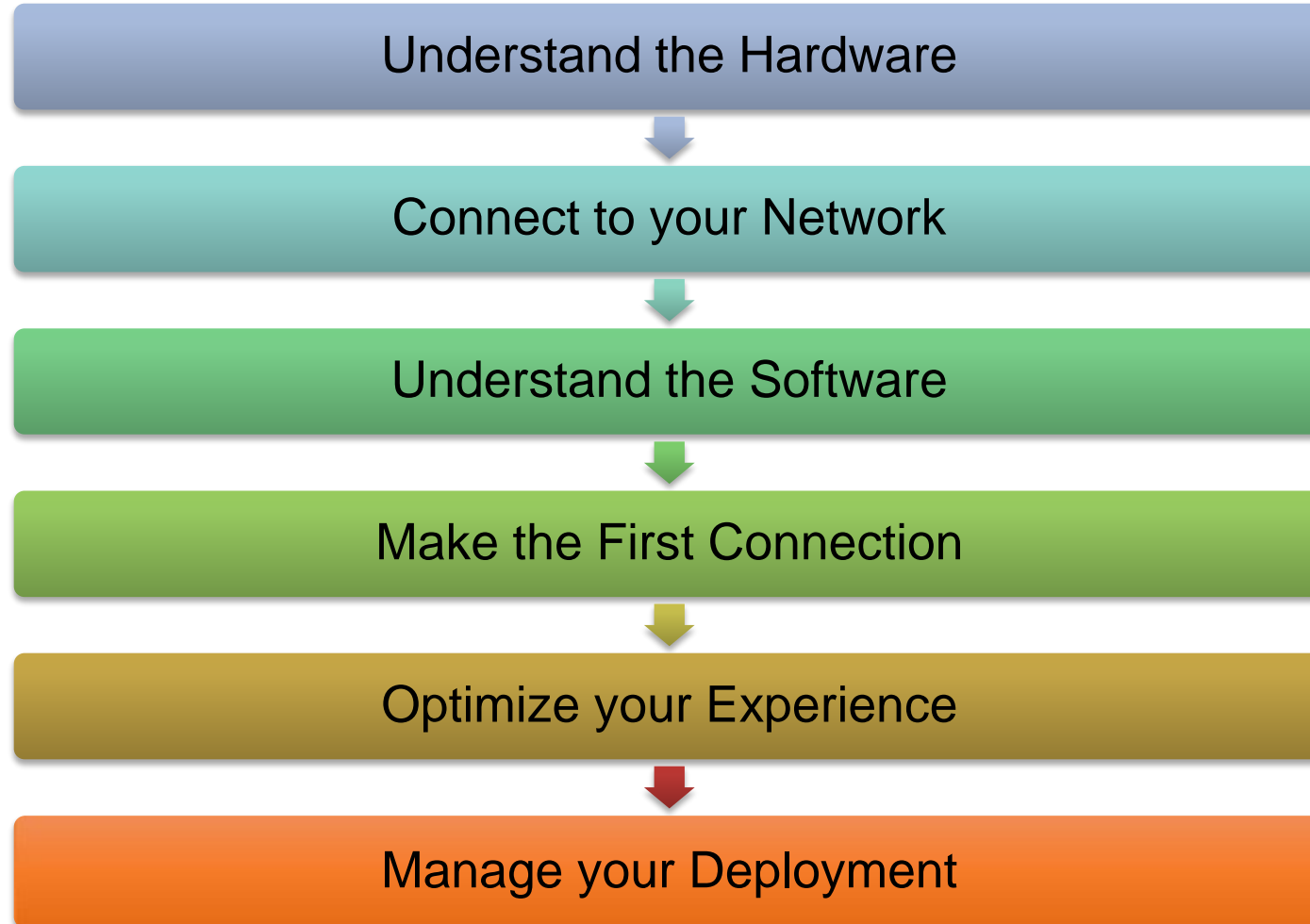
## Quick Start Guide

### For School IT Administrators

April 2017

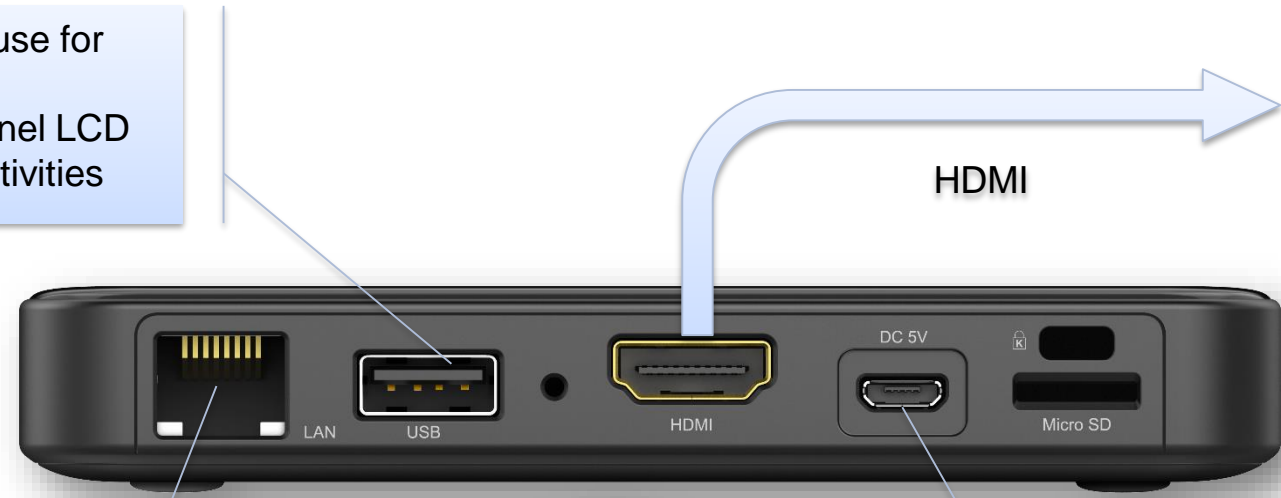
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# Outline



# Understand the Hardware

- Connect to a USB mouse for configuration, or,
- Connect to a touch-panel LCD screen for user interactivities



- Ethernet port (the preferred network connection)
- Built-in WiFi



- Please use the enclosed power adaptor in the product package



# Home Screen

- “Device Edition” – Switch between “Corporation” and “Education” modes.
- Choose “Education” mode for classroom usage.

- “WiFi” – Configure WiFi connection

- Alert message. (like new firmware notification message, etc.)

- Connection Info.

- By default, the device is running at WiFi hotspot mode.

- WiFi
- Display
- Settings
- Device Edition
- About

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- Hide Session Info
- Hide QR Code
- Configure Slideshow

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- Restart

The screenshot shows the NovoPro Home Screen. At the top, there is a status bar with the text "Android Mirroring (Miracast) is disabled when WiFi Hotspot is on." and the time "01:49 AM". The main content area is titled "First Time Using NovoPro?". It features two main sections: "Internet Download" and "Local Download". The "Internet Download" section includes links for "Desktop Streamer" (http://vivitekcorp.com) and "NovoPresenter" (Available on the App Store and Get it on Google play). The "Local Download" section includes a link for "Desktop Streamer" (http://192.168.43.1:8080 and http://192.168.29.149:8080). On the right side, there is a "Connection Info" panel for "Classroom-6" showing a PIN of 8540 (AirPlay Password), an IP address of 192.168.43.1, and the device name NVC\_7306E in Hotspot Mode. A QR code is displayed below the connection info. At the bottom right, the version information is shown as "Version: v2.3.1.226 | Edition: EDU". A taskbar at the bottom contains icons for a browser and Novo WhiteBoard.

Device firmware version. Always check to upgrade to the latest version

# Connect to Your Network

NovoPro has a broad usage at schools, and its usage decides how to connect to the network.

## BYOD Classroom



- Most popular usage of NovoPro; Need to connect both teacher's network and student's network to NovoPro;
- Can support up to 64 student connections, and can do quad-display.

## Wireless Presentation



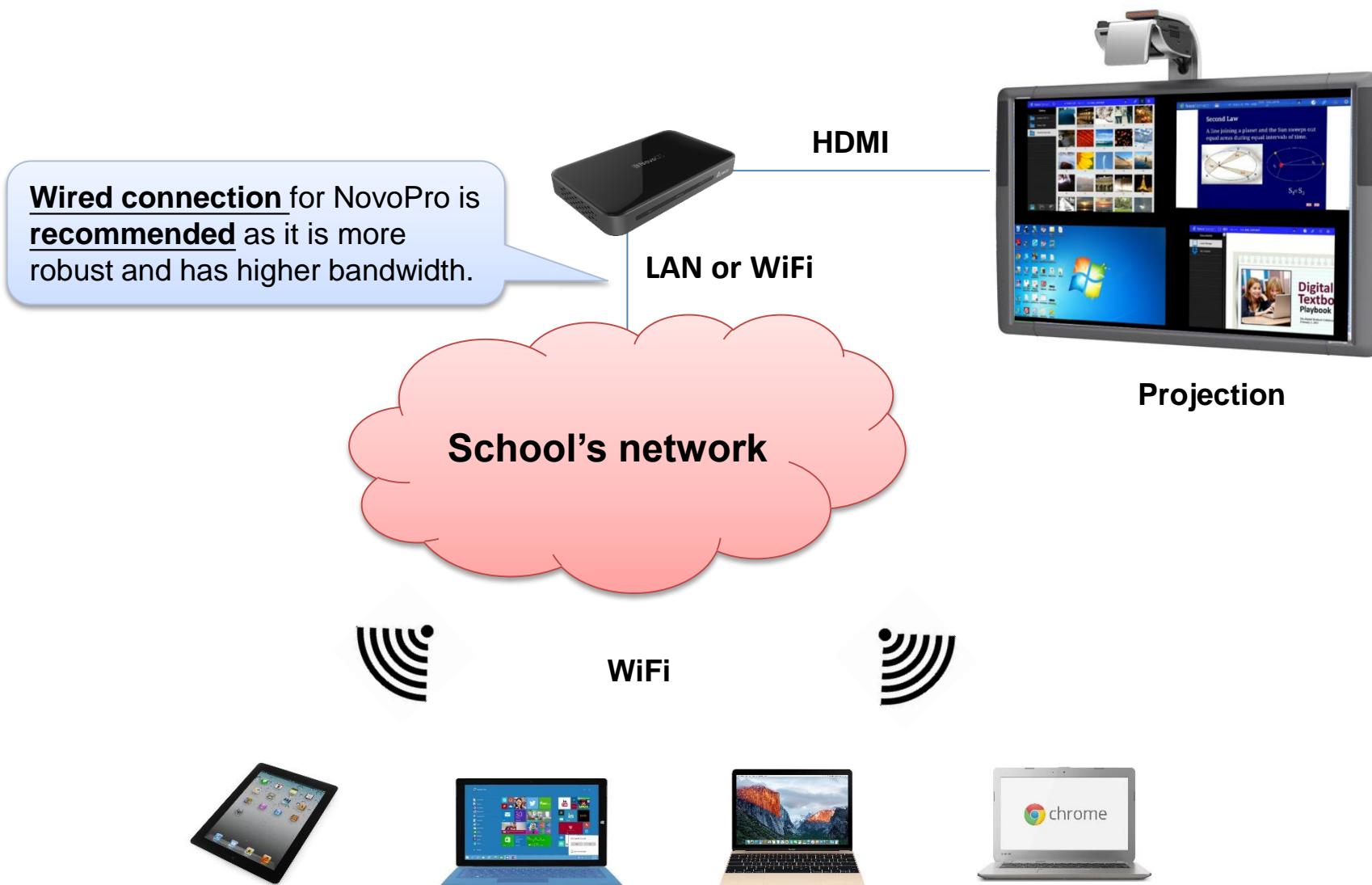
- Only for teachers to present content wirelessly. In this case, connect NovoPro to teachers' network.

## Huddle Room



- Facilitate small group students' project work;
- Can either connect to students' network or enable the hotspot feature of NovoPro.

# Typical BYOD Classroom Setup



# Intranet Firewall and Port Numbers

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

Port Number	Type	Inbound (IN)/ Outbound (OUT)	Description
<b>80</b>	TCP	IN	Port for local Desktop Streamer application download page
<b>443</b>	TCP	OUT	Port for device firmware upgrade or streaming YouTube video (need Internet access)
<b>8080</b>	TCP	IN	Port for local Desktop Streamer application download page
<b>20121</b>	TCP	IN	Port to transfer commands and status reports between the NovoPRO unit and users' devices
<b>20122</b>	TCP	IN	Port to enable "Remote Mouse" functionality
<b>20123</b>	TCP	IN	Port to transfer screen image
<b>20124</b>	UDP	IN	Port to send discovery message
<b>20126</b>	TCP	IN	Port to transfer AV-streaming's command data
<b>20127</b>	TCP	IN	Port to transfer AV-streaming's audio data
<b>20128</b>	TCP	IN	Port to transfer AV-streaming's video data
<b>20130</b>	TCP	IN	Port for video streaming service
<b>20131</b>	TCP	IN	Port for file transfer service
<b>20141</b>	UDP	IN	Port for device management
<b>20142</b>	UDP	OUT	Port for device reporting to Remote Manager
<b>20161</b>	TCP	IN	Port for cross annotation
<b>20162</b>	TCP	OUT	Port for device home screen configuration
<b>20192</b>	TCP	OUT	Port for device home screen configuration
<b>20193</b>	TCP	OUT	Port for device firmware upgrade (used by Remote Manager)

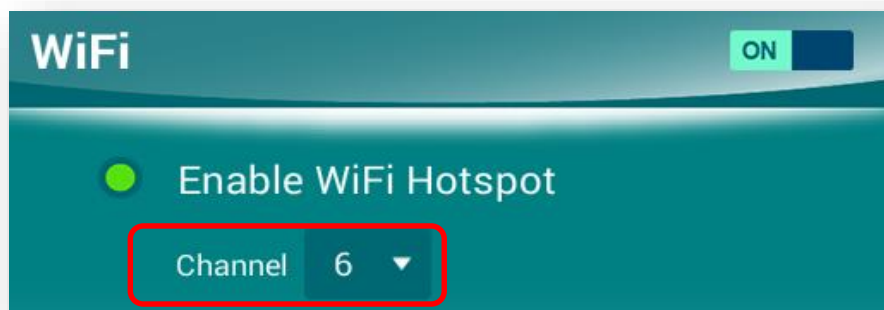
# Quick Evaluation

## Run NovoPro in WiFi Hotspot mode

- No configuration needed (WiFi Hotspot mode is the default configuration)
- No network firewall/policy or bandwidth to worry about
- Connect your mobile devices and/or laptop computers to this WiFi Hotspot

## Keep in mind...

- WiFi Hotspot is 2.4GHz only and has configurable channel
  - Pick a channel with cleaner WiFi spectrum



- Typically Windows computers take a bit longer to connect
  - Windows needs time to verify network connection.
- No Internet connection in Hotspot mode.
  - Online content (like Dropbox or YouTube) will not work







*Connect all your client devices to Hotspot*



# Understand the Software

- **Desktop Streamer:** Screen mirroring and collaboration software for Windows, Mac, Chromebooks
- **NovoPresenter:** Screen mirroring and collaboration App for phones and tablets
- **Remote Manager:** Device management software for IT professional
- **NovoScreenote:** (Optional) Desktop screen annotation software

Platform	Applications			Available at	Volume Deployment
PC/MAC	Desktop Streamer	NovoScreenote	Remote Manager	NovoPro product website: <a href="http://novopro.vivitekusa.com">Http://novopro.vivitekusa.com</a>	Provide silent installation package
					
Chromebook	Desktop Streamer 			Chrome Web Store	Can provide app for volume deployment
Phones & Tablets	NovoPresenter 			Apple App Store Google Play Store	Can provide App/APK for volume deployment

- **One-time hardware purchase**
- **Life-time FREE software usage and upgrade**

# Support AirPlay & Google Cast

- NovoPro supports native AirPlay mirroring and Google Cast+ mirroring
- No application installation is needed.



+ Note: Google Cast mirroring is going to be available from v2.4 release.

# Make the First Connection

- Use Desktop Streamer software to make the connection.

Desktop Steamer

1 IP address (required)

PIN: Not Required

2 Your name

3 Connect

NovoPro Home Screen

NovoPro << Warning: No WiFi connection! 01:40 AM

Share and collaborate up to **64 users** simultaneously

Classroom-6  
PIN 8540 (AirPlay Password)  
192.168.29.149  
Not Connected

You can customize this slideshow area with your pictures and videos.

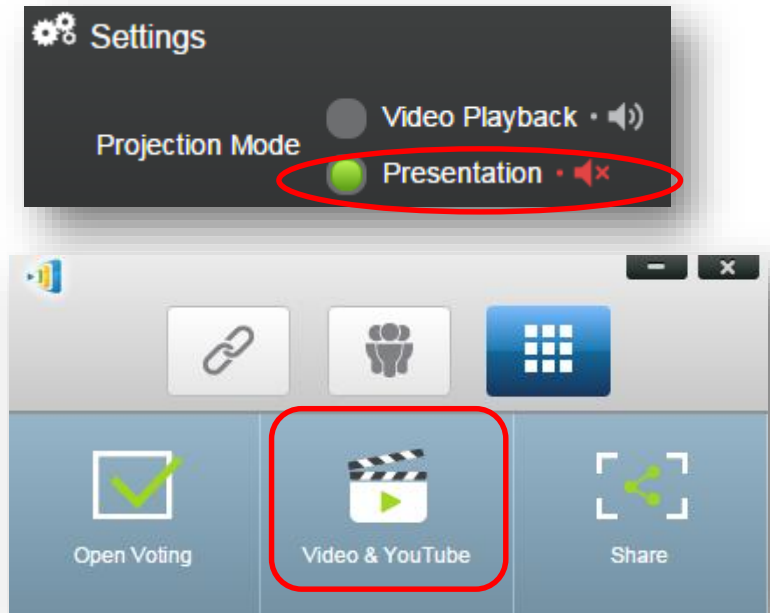
Version: v2.3.1.226 | Edition: EDU

- 1 Key in the NovoPro IP address
- 2 Key in your name
- 3 Click “Connect”

# Optimize Your Experience

## To improve your experience with NovoPro, Some best practices are recommended

- Use wired connection for NovoPro if possible;
- Check your WiFi environment to make sure you have a stable WiFi network;
- When doing a presentation, use “presentation” mode unless you want to stream both video and audio to the projector or display panel.
- If you’d like to play a local video or a YouTube video, use the streaming tool available at Desktop Streamer



# Manage Multiple NovoPro Device



## Remote Manager

- Device Management over the Network
  - Designed for IT administration
  - One computer to manage multiple devices
- (1) Settings (2) Firmware Update (3) Home Screen Configuration

The screenshot displays the Remote Manager web interface. On the left, a sidebar shows a group list with 'Admin Building (2)', 'Campus A (2)', and 'Others (1)'. The main area contains a table of devices. A red circle highlights the settings icon for the device 'Novo-3FEEA0E34' in the table. An arrow points from this icon to a larger, detailed view of the device's settings on the right. This detailed view includes sections for 'Device Info', 'Display', and 'Network'.

ID	IP Address	Device Name	Firmware Version	Group	Description	Online Users
Room Explorer	192.168.2.80			Campus A		0
Room Discovery	192.168.1.6			Campus A		0
Novo-3FEEA0E34	192.168.1.125	Novo-A0E34	v2.2.5	Admin Building		0
Admin Hallway B	192.168.1.11			Admin Building		0
Classroom 101	172.18.69.134			Others		0
Classroom 102	192.168.2.24					0
Meeting Room Bilbao	192.168.1.105	Novo-B491B				0

**Device Info (Detailed View):**

- Device Name: Novo-A0E34
- Model: NovoConnect-B380
- EDU vs. CORP: Education
- App Version: v2.2.5
- Build Version: NovoConnect-B380-0172
- Software Edition: PRO-US-CORP-EDU

**Display Settings:**

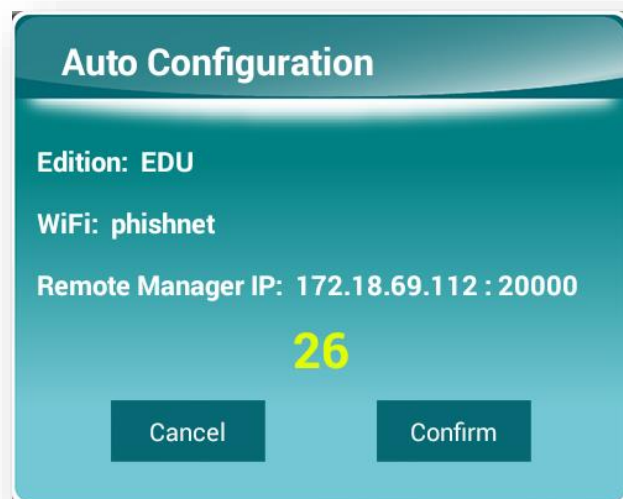
- Display Setting: 1920 x 1080 (1080p)
- Language: English
- HDMI-CEC:

**Network Settings:**

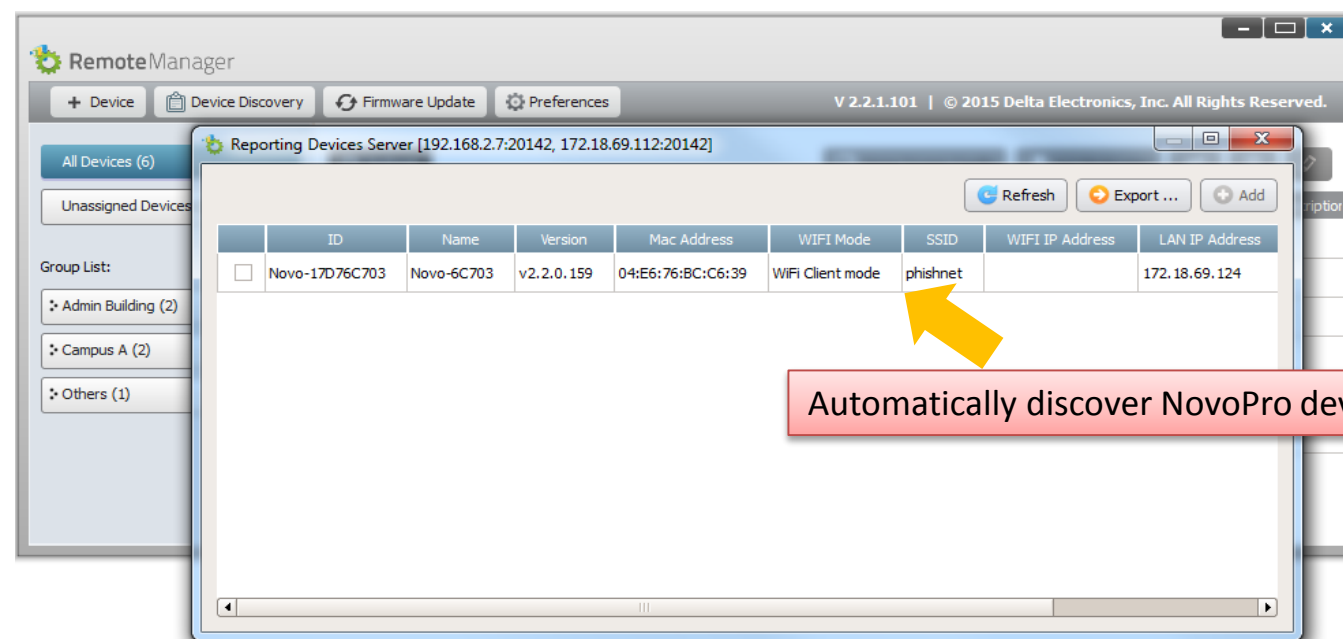
- WiFi Mode: HotSpot
- SSID: AndroidAP
- WiFi IP: 192.168.43.1
- LAN IP: 192.168.1.125

# Large Deployment

- **Device Configuration:** Auto-configuration capability to simplify deployment process



**Device Side**



**Remote Manager**

- **Software installation:**
  - Support the popular software distribution systems including Microsoft SCCM or Google's Admin Console.
  - Please contact Vivitek Novo support team for details.

# Our Support

## Online resource

- User Manual and Software Download <http://novopro.vivitekusa.com/>
- Product Video Clips in YouTube <https://www.youtube.com/user/VivitekUSA>

## Contact us

- Customer Service Team Support [1-855-VVK-BEST](tel:1-855-VVK-BEST) (1-855-885-2378)
- Email to [info.us@vivitekc corp.com](mailto:info.us@vivitekc corp.com)



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