Quick Start Guide
For Corporation IT Administrators

Oct. 2017
Outline

Understand the Hardware

Connect to your Network

Understand the Software

Make the First Connection

Optimize your Experience

Manage your Deployment
Understand NovoPro Hardware

- Connect to a USB mouse for configuration, or
- Connect to a touch-panel LCD screen for user interactivities, or
- Used for pair LauncherPlus’ with NovoPro

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

- Please use the enclosed power adaptor in the product package

How-to Video: “Unboxing NovoPro” at https://youtu.be/NvycKwM4TKk
Understand NovoEnterprise Hardware

- Connect to an Ethernet port (the preferred network connection)
- Connect to a WiFi Projection Display
- Built-in WiFi
- HDMI IN: connect to video sources such as document cameras, DVD players, etc.
- Audio Out: connect to external sound systems
- Connect to a USB mouse for configuration, or
- Connect to a touch-panel LCD screen for user interactivities, or
  - Used for pair LauncherPlus’ with NovoPro
- Ethernet port (the preferred network connection)
- Built-in WiFi
Home Screen

- "Device Edition" – Switch between "Corporation" and "Education" modes.
- Choose "Corporation" mode for Enterprise 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.

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

**Internal Meeting Room**
- Only connect to the Corp’s intranet (private network);
- Can support up to 64 participant connections, and can do quad-display.

**Executive Brief Room**
- Can either connect to the Corp’s intranet (private network), or use device’s WiFi Hotspot;
- LauncherPlus is recommended with no software installation and no network configuration.

**Ball Room**
- Connect to both Corp’s intranet (private network) and guest (public) network; Or use the device’s WiFi Hotspot for visitors;
- LauncherPlus is recommended with no software installation and no network configuration.

**Guest Meeting Room**

Typical Guest Meeting Room Setup

- **Wired connection** for NovoPro/NovoEnterprise is **recommended** as it is more robust and has higher bandwidth.

- **Corporation Intranet** (Private)
- **Guest WiFi or Device’s Hotspot** (Public)

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- **LAN**
- **WiFi**
- **HDMI**

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- **Projection**
- **Employees’ devices**
- **Guests’ devices**
To enable successful operations of a NovoPRO device, these ports should NOT be blocked by your network’s firewall.

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

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

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

How-to Video: “Installing Software” at [https://youtu.be/Am0reSrELdA](https://youtu.be/Am0reSrELdA)
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.

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

How-to Video: “Joining a Presentation” at https://youtu.be/TPVo0zwY_vk
To improve your experience with NovoPro/NovoEnterprise, some best practices are recommended:

• Use wired connection for NovoPro/NovoEnterprise 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

How-to Video: “Remote Manager – Basic” at https://youtu.be/rGWZ436Z7ZI
“Remote Manager – Advanced” at https://youtu.be/bnkrBypU1B4
Large Deployment

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

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

Device Side

Remote Manager

Automatically discover NovoPro devices.
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 (1-855-885-2378)
• Email to  info.us@vivitekcorp.com