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

How-to Video: “Unboxing NovoPro” at https://youtu.be/NvycKwM4TKk
Home Screen

- **Alert message.** (like new firmware notification message, etc.)
- **Connection Info.**
- **By default, the device is running at WiFi hotspot mode.**
- **Device firmware version. Always check to upgrade to the latest version.**

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

“WiFi” – Configure WiFi connection

**How-to Video:** “Walking Through Device Home Screen” at [https://youtu.be/kCZrgBb7_b4](https://youtu.be/kCZrgBb7_b4)
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

**Wired connection** for NovoPro is **recommended** as it is more robust and has higher bandwidth.
Intranet Firewall and Port Numbers

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>Chromebook</td>
<td>Desktop Streamer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NovoPresenter</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chrome Web Store</td>
<td>Can provide app for volume deployment</td>
</tr>
<tr>
<td>Phones &amp; Tablets</td>
<td>NovoPresenter</td>
<td>Apple App Store Google Play Store</td>
<td>Can provide App/APK for volume deployment</td>
</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, 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

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

  - **Device Side**
    - **Automatic discovery:**
      - **NovoPro devices** automatically discovered with 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

- 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
Vivid Color, Vivid Life