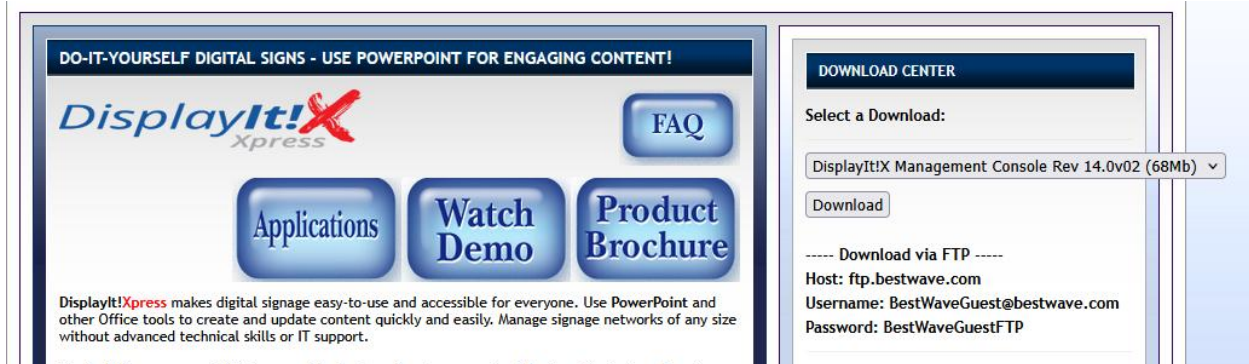


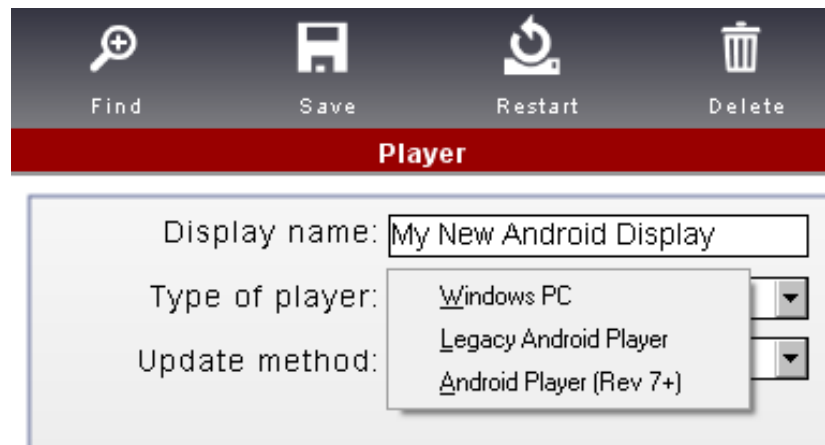
DisplayItXpress for Android - Quick-Start Guide

You will need two pieces of software: 1) the new Android Player software, and 2) the Management Console. Both are available from Bestwave.com on the DisplayItX Product page. On a Windows computer, download the Management Console Installer from the downloads pop-up on that page:



Download and run the Management Console installer. If you have previously used this software, you can install this new version on top of your previous Management Console installation.

Go to the Add/Edit tab of the Management Console and type in the name you want to use for the new display. The “Type of Player” pop-up will have two Android players available: 1) Legacy Android Player and 2) Android Player (Rev 7+). Select the second option, Android (Rev 7+).

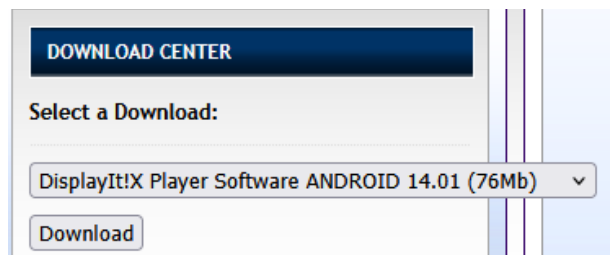


Once you have selected the update method, The “Update method” pop-up just below, will show the 3 update methods available. 1) Local or Wide Area Network, 2) USB Sneakernet, and 3) Best Wave Cloud Service. Local or Wide-Area Network requires that the player and the Management Console are both on the same physical network. Their IP addresses will typically both begin with the same first three sets of numbers, for example, 192.168.0.aaa and 192.168.0.bbb.

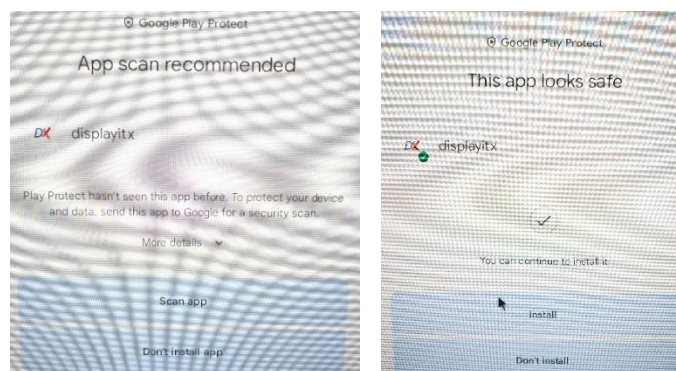


The information you need to set up any of these update methods is shown on the Settings screen in the new Android player software which will be installed in the next step.

Install the new Android Player software onto the displays using the same web page. Open the Chrome browser on the Android device and navigate to Bestwave.com. Select Products from the menu and then DisplayItXpress. Use the “Select a Download” pop-up on the top-right to select Player Software ANDROID 14.01. Then, click the Download button.



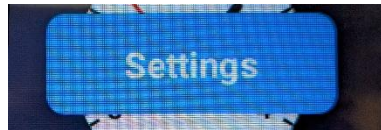
The Android operating system will recognize that you are installing a new application and guide you through the process. You may be asked to allow the download and installation, and there may be a scan of the software for viruses via Google Protect. Approve the scan.



Once the software has installed, open the new DisplayItX app.



The apk opens into the Settings window. If you do not see Settings, click the S key on the keyboard then, use the mouse to click the blue button “Settings” that appears :



Media Player Information

Network Connection: <Type>
IP Address: 192.168.1.15
Installation ID: yz7nkw5mwmxm
Current version: 0.1 (6)
Resolution: 1080x1864
Orientation: portrait

Licensing Information

No valid license. Please enter an email address and check for validity.

Installation ID: yz7nkw5mwmxm

Email

Save

Check License

✗ License is Invalid

Content Update Method

LAN/WAN

Cloud

USB

Reset Configuration

LAN / WAN Settings

Username

Password

Save

Tools

Widget Size Adjustment

At the top, you will see the IP Address, which you will need if you will be using the Local Area Networking option for updates. You will also see an installation ID, which is a unique identifier for this software installation. It is used for the Best Wave Cloud updating option. You will also see the actual resolution of the display in pixels width x height.

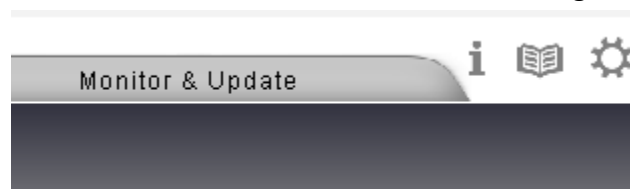
In the licensing area you will enter the Activation Email you were supplied by Best Wave. After you enter it, you can check the license is valid and you have licensed an adequate number of players by clicking the “Check License” button below that field.

You will also see buttons for the 3 content updating methods. In the above case, you see LAN/WAN has been selected, so the Username and Password fields are available. The default Username is “admin” and the default Password is also “admin”. Both are lowercase. These must match the fields on the Add/Edit tab of the Management Console for this display.

There is also a Tools area where you can adjust the size of the Clock, Calendar, and Weather widgets. That allows you more control over the look of your display. Once you have entered the information required for an update method, click the Save button to store the configuration settings, then click the left arrow at the top of the screen to begin displaying content.

Note: if you wish to use the Best Wave Cloud updating service, you will need to reserve a folder on the server for that purpose. The folder will be named the same as the Installation ID on the Android Settings screen. There is a small monthly charge for this service and it must be set up in advance for the service to work. Email support@bestwave.com to set up Best Wave Cloud Updating. Be sure to include your Installation ID. The installation ID is entered in the MAC address field in the Management Console. It must be all lowercase with each two letters separated by a colon “:”. For example, if your installation ID is “yx7za32xghf8” enter it in the MAC Address field like this: “yx:7z:a3:2x:gh:f8” Support is available from Best Wave via telephone or email. Email is preferred.

The full documentation is available in the Management Console by clicking on the book icon in the top-right corner at any time. The three icons in that corner are I for information about the Management Console, the book icon for the User Guide, and Settings.



Installing the Management Console on Your Desktop Computer

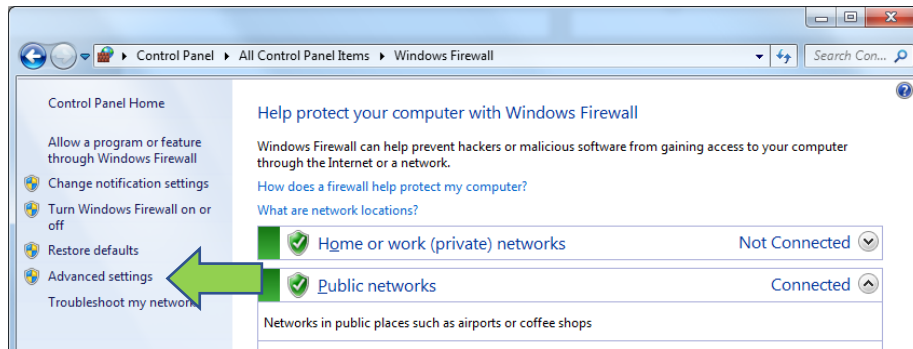
- 1) Go to: www.bestwave.com/DisplayItX-Product.php
- 2) Click the Tutorial button on that page to watch the 18 minute demo/tutorial.
- 3) Download and Install the **Management Console** from the pop-up on the right.
- 4) You will start in the Add/Edit Displays tab. You do not need to use the Find button to try and locate your display PC. Simply add the display by typing in the requested information:
 - a. Display Name (usually the location of the display)
 - b. Type of player: Android (7+), Communications method: LAN/WAN
 - c. IP address from the settings screen on the Android player.
 - d. UserID and Password - pre-set to “admin” and “admin” lower case.
- 5) Set a default time to display new playlist items, start with 60.
 - a. Note: You can modify the display duration for any item when you add it to the playlist, or you can embed the time in the name of any file. For example, to set the duration for a file named testImage.jpg to 45 seconds, change its name to 45_testImage.jpg. When it is added to a playlist, the duration will automatically be set to 45 seconds.
- 6) Click Save. Then test communications by clicking on the name of the display.
- 7) If there is any problem with communications, go to the Support tab on the Best Wave web site. There is a Communications Troubleshooting Guide in the download area to the right. Open that and follow the instructions.
 - a. One requirement for most Windows computers running the Management Console is to open port 2221 for Android communications in the Windows Defender Firewall.

Support

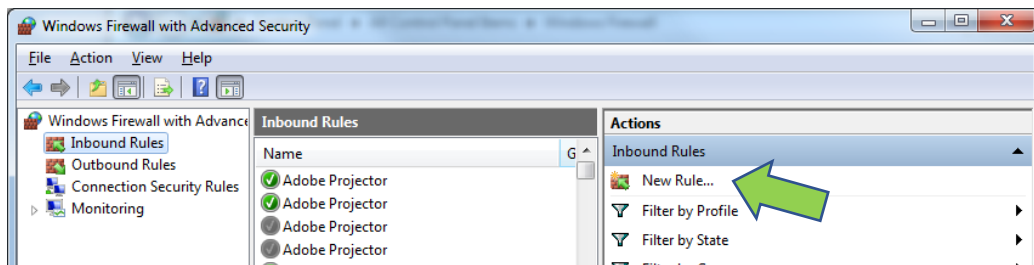
There are many helpful PDF files available at the Support tab of www.bestwave.com, including communications troubleshooting.

Email: support@bestwave.com or phone 480-368-8900

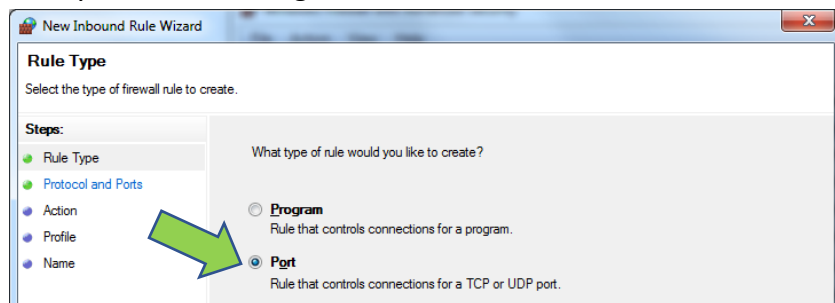
Opening Port 2221 in Windows Firewall for communication with Android players



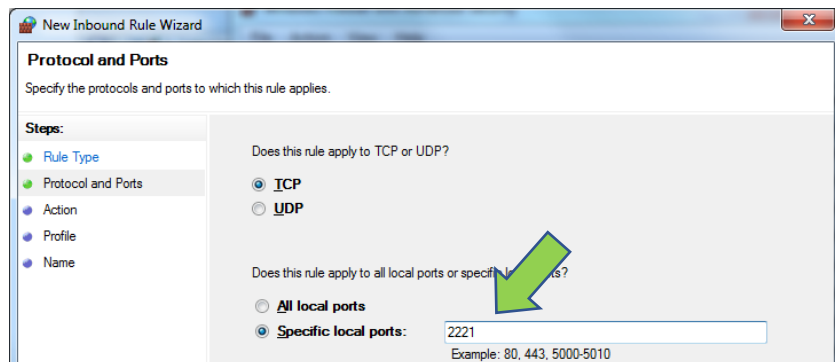
Click on “Advanced Settings” on the left panel (green arrow above).



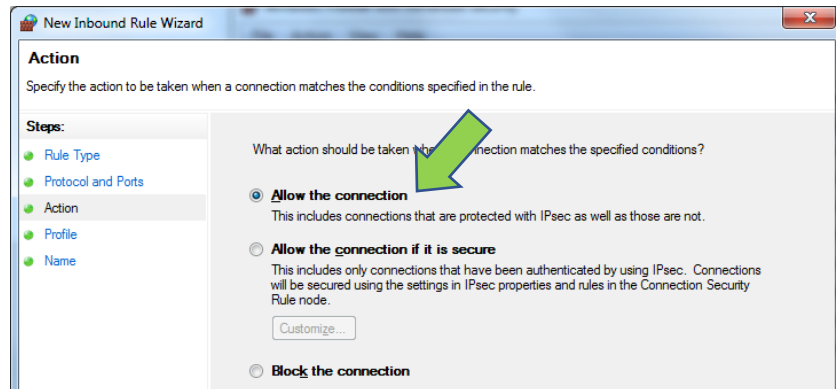
Click Inbound Rules. Under “inbound rules” click on “New Rule...” on the right side (Green arrow above). Later, you will do this again for the Outbound Rules, as both are required...



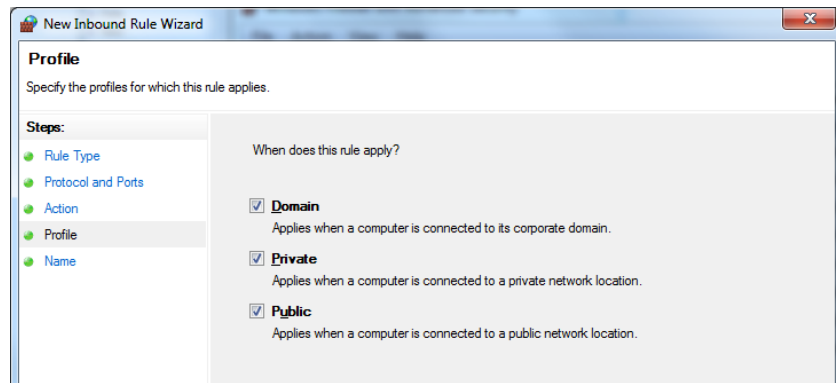
Click the “Port” radio button, then “Next”



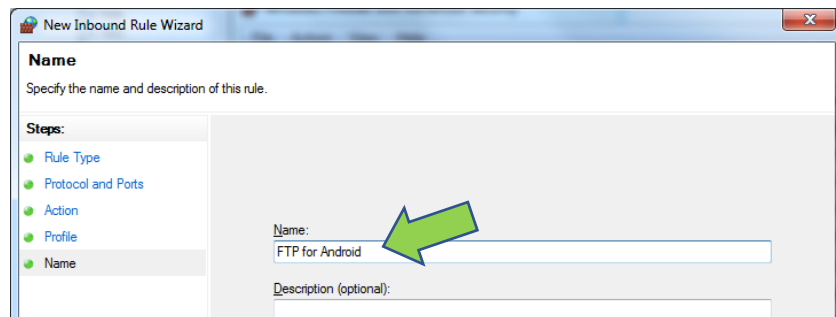
Type the port number, 2221, into the local port field and click “Next”



Click “Next”



Select all three options then, click “Next”



Type in a name for this rule – in the example above “FTP for Android” and click “Finish.”
That completes the Inbound rule.

Do the same thing to set an Outbound rule. You can name it the same as this one.

After you are done with both rules, close the Windows Firewall.