



Matrix Control Center



InstallerPro™

User Manual V1.2

Just Add

Software



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Introduction

Just Add Software's InstallerPro™ is designed for the professional CI involved in installations using Just Add Power's HD over IP solutions. The purpose of the software is to allow fast and easy configuration of managed switches out of the box and custom IP configuration of Just Add Power's 2G HD over IP hardware. The software will perform any of the desired initial configuration functions of the managed network switch. This includes setting passwords, defining video sources, video screens, IP address, etc. InstallerPro™ is designed to prepare the switch to be controlled by any of the available control systems on the market. It is 100% compatible with Just Add Software's MediaSwitcher™ product and can generate or read MediaSwitcher™ configuration files.

Getting Started

Registration:

Upon startup for the first time, the user will be presented with the following registration window:

InstallerPro™ Registration

Please enter your name, email address, and license code you received below from Just Add Software or an authorized dealer/distributor. Be sure to use the same name and e-mail address you used when registering.

To request a License Code, please enter your information and click "Send Registration Request." Your computer must be connected to the internet in order for Just Add Software to receive your request.

Your information will be sent to Just Add Software when registering.

Name:

Email Address:

License Code:

Not registered

Before InstallerPro can be used it must first be purchased and registered with a valid license. To obtain a license please contact Just Add Software, Just Add Power or your local authorized representative. If the computer is connected to the Internet, the fastest way to request a license code is to enter your name and e-mail address in the spaces provided (required for registration). Once this is done, the "Send Registration Request" button will be enabled. Click this button and an e-mail will be sent to Just Add Software requesting a license code. Once your purchase has been verified, a license code will be provided via e-mail.

InstallerPro™ is a subscription based product. The initial purchase provides for one year of updates and technical support. After the first year, a renewal license will need to be purchased in order to continue to receive updates and technical support. If you choose not to update, the software will continue to function but you will not be eligible for software updates or technical support. When a valid registration code is entered, a message with your subscription expiration date will be displayed. You can also find your expiration date on the "About" window of the software or by opening the Registration window (under the File menu).

To renew your subscription to InstallerPro, open the registration window and enter the new license key you received when subscribing. If you attempt to enter a key that is older than a year, you will be notified that it is not a valid key for the current version of the software. Once a valid key is entered, your subscription will be extended for a year beyond the original expiration date.

Out of Box Switch Configuration:

When the managed switch is initially installed or has a factory reset performed, it is not in a state that is fully compatible with the Just Add Power HD over IP™ video distribution system. Typically, getting the switch to operational status would require the user to connect to the console port of the switch via RS-232 serial cable. A terminal session would then be opened and an initial switch configuration performed by manually typing configuration commands or sometimes following set-up wizards on the switch. This is a time consuming task and prone to error. InstallerPro™ automates this process, and in just a few minutes, the entire video matrix will be programmed for optimal performance. For multiple site installations using similar configurations at each site, programming of the switch can be done in seconds.

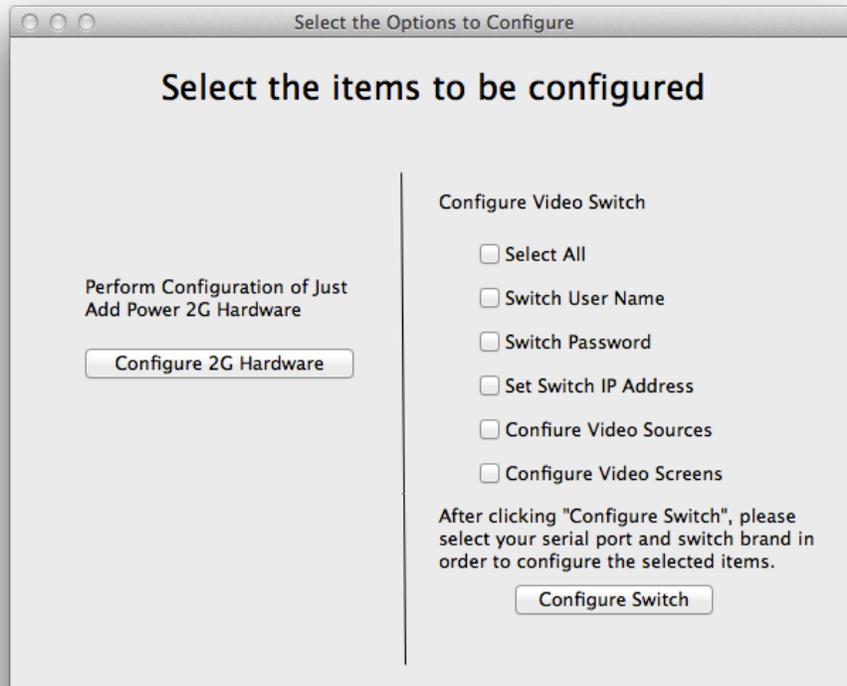
InstallerPro™ uses RS-232 serial communications to communicate with the switch. Some switches will require the use of a “null modem” or crossover cable. For brand new switches, the correct serial cable should be included in the box.

Initial Startup

Upon startup, the user will be provided with a set of initial screens. The first is simply a welcome screen:

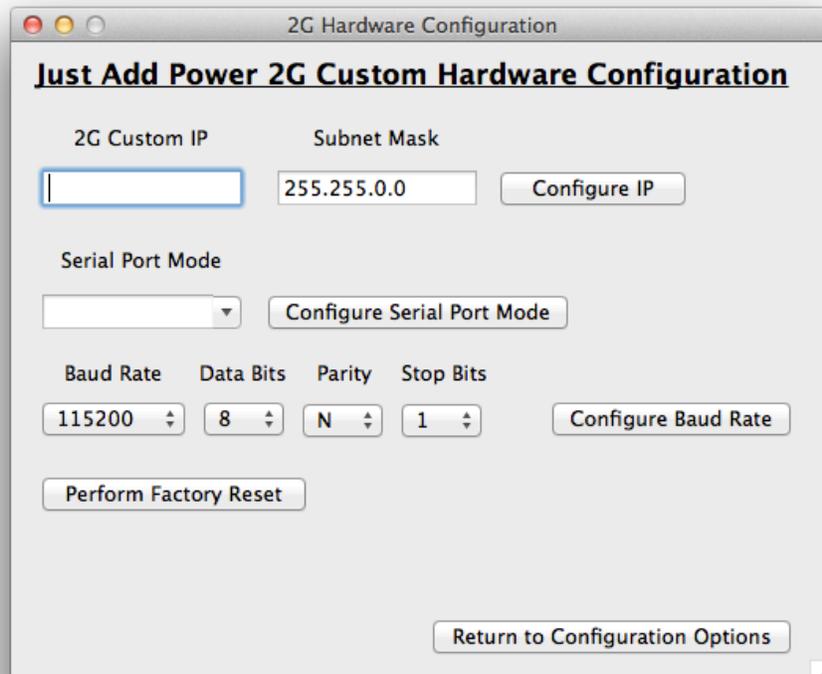


The next screen allows the user to select which devices or parameters of the switch they desire to configure. Clicking on “Configure 2G Hardware” will open a window allowing configuration of Just Add Power 2G hardware devices. Clicking on “Configure Switch” will allow configuration of the managed network switch to be used in the video matrix.



Configuring 2G Hardware:

InstallerPro™ has the ability to perform advanced configuration of the 2G hardware. By clicking the “Configure 2G Hardware button on the window shown above, the following window is opened. This window allows for configuring custom IP addresses, serial port mode, and



serial port baud rate on the 2G hardware. It also has a factory reset option as well that will reset all custom settings on the hardware to default.

Setting IP Addresses:

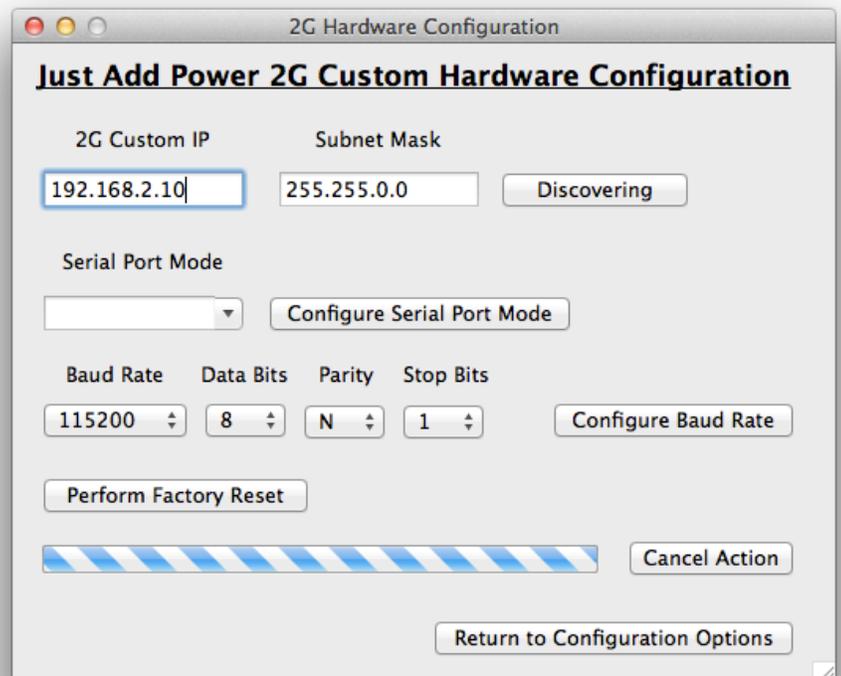
By default, 2G hardware ships in an automatic IP configuration mode. In auto configuration, IP addresses in the range of 169.254.0.1 to 169.254.254.254 are set. For many video matrix installations, this setting is sufficient. However, the 2G hardware also supports manual IP addressing.

To configure a device, enter the desired IP address and subnet in the fields for the device. Connect the device directly to your computer using an ethernet cable. Your computer's ethernet card must be set to the same IP subnet range as the Just Add Power hardware. If the device has never been configured previously, then this is the 169.254 subnet. If your computer is set to get its IP address automatically, the 169.254 subnet will be selected without any user effort. If your computer is manually configured or if the HD over IP hardware has previously had its IP address changed, then you must manually configure your IP settings.

In the fields provided enter the desired IP and subnet of the connected device. For IP settings, any valid IP address can be used. The most common private network addresses are in the 10.0.0.1 to 10.254.254.254 and 192.168.0.1 to 192.168.254.254 subnets. Entering "auto" (no quotes) in the IP field will result in the hardware being set back to its default auto-configuration setting. Entering "dhcp" will set the hardware so that the device will need to get its IP address from a DHCP server on the network. Invalid IP addresses or any other text in the IP field will be rejected by the software when configuration is attempted.

For subnet mask, any valid subnet mask from 255.255.0.0 to 255.255.255.252 can be entered. The most common subnet masks are 255.255.0.0 and 255.255.255.0. Invalid mask entries will be rejected by the software when configuration is attempted.

Once IP and subnet information has been entered, click the "Configure IP" button to begin the configuration. A message box will be displayed asking the user to verify the connection before continuing. Click OK and the routine will begin. As the routine runs, the text on the Set IP button will change to indicate the current status of the routine and a progress bar will be displayed at the bottom of the window. If you wish to cancel before the routine is finished, click the "Cancel Action" button.



The hardware is discovered using MDNS or “Bonjour”¹ technology. Bonjour is built into OS X and so if the software will be used in OS X, no user action is required to enable this feature. For Windows computers, Bonjour will need to be installed. If you have iTunes installed on your computer, then Bonjour has already been installed. If Bonjour has not been installed or you are not sure, you will need to download and install the software from: <http://support.apple.com/kb/DL999>. Download and install the package before attempting to configure IP addresses.

If your firewall is turned on, you may need to either turn it off or enable UDP traffic on port 5353.

The custom IP information is not saved within InstallerPro and will need to be set for each piece of hardware. Therefore, it is up to the installer to keep track of what IP addresses are programmed into specific transmitters or receivers.

Setting Serial Port Mode

The Just Add Power 2G hardware devices have three possible serial port modes that can be configured: Type 1 ASCII, Type 2 Binary and Type 2 Guest mode. Depending on the firmware version installed on the hardware, some of these modes may not be valid. For the 1.xx version firmware, Type 1 ASCII is the default. To set the mode simply choose the mode from the pick list and click the “Configure Serial Port Mode” button. The routine will discover the hardware, set the mode, save the settings and reboot the hardware. For more information on serial port modes, please see the Just Add Power 2G Dealer’s Reference Manual.

Setting Baud Rate

The Just Add Power 2G hardware devices normally ship with a baud rate of 115200 bits per second, No Parity, 8 data bits and 1 stop bit. If the device connected to the serial port needs different settings, then select the desired settings from the pop-up menus and click “Configure Baud Rate.” The hardware will be discovered, changes will be made and saved and the hardware will reboot.

Factory Reset

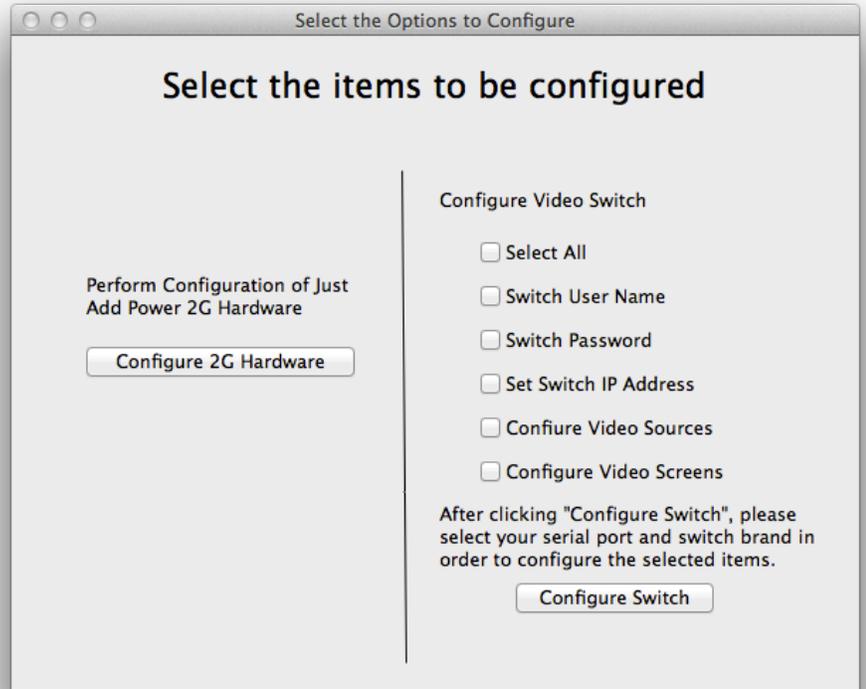
Clicking this button will wipe all user configured settings from the Just Add Power hardware. Prior to doing the reset, the user will be presented with a warning menu giving the option to cancel. Only proceed if this is absolutely desired. Please note that at this time, doing the factory reset will not wipe the randomly generated MAC address of the hardware (this is used in setting the IP address via Bonjour). Support to wipe the Mac address may come in a future release.

¹ Bonjour is a Trademark of Apple, Inc.

Configuring the Video Matrix

To configure the switch for Video Matrix operations select the desired items to configure from the Options Window and click “Configure Switch.” Not all items need be checked as there are some installations where a user name or IP address for the switch may not be needed.

The “initial setup” window will then open allowing the user to fill out the desired configuration information. Before any configuration can be done, the user must select the desired serial port to be used and the brand of switch to be configured. Below is an image of the window when first opened:



Select Gen 1 or Gen 2 Just Add Power devices

Select Serial Port Here



Select brand of switch available

Once the serial port and switch brand are selected, the software enables configuration of those items selected at the start of the program. If a mistake was made, click the “Start Over” button to go back to the window allowing you to select the items to configure.



Select 1G or 2G System: Select which generation of Just Add Power HD over IP™ product that will be used. The two generations are not compatible and the 2G system requires a gigabit Ethernet switch. The default is 1G.

Switch Brand: Choose the brand/model of switch being used. This list will vary depending on which generation of product was selected in the previous step.

Using Stacked Switches: If a stacked (or clustered) switch configuration is being used, check this box. Stacking is when 2 or more switches are connected together and acting as one switch. All switches must be the same brand and firmware revision. See your switch manual for more information.

Switch IP Address: Enter the IP address desired for the switch. If this selection was not checked when configuration options were selected, then selection will be grayed out and unavailable. Setting an IP address is not necessary if the switch is going to be used in a standalone configuration and controlled via RS-232.

Switch IP Subnet: Enter the IP subnet for the switch. This is based on your local network settings and is usually 255.255.255.0.

Port: This is the telnet port used to connect to the switch. The default is 23 and will rarely need to be changed.

Switch User Name: Enter the desired user name to be used to control the switch during operations. The default is “admin” for most switches.

Password: Enter the desired password for gaining access to the switch. In most cases, this is optional. Please note that a password is required for Cisco 2960 switches when being managed over TCP/IP. For other brands, a password is optional but recommend as having a password will prevent unauthorized changes to the system. If using MediaSwitcher™ as the control system, a password allows MediaSwitcher™'s configuration to be locked preventing accidental or unauthorized changes to the program configuration.

Using Instant Receivers: “Instant Receivers” is a special configuration for 1G systems using extra Just Add Power HD over IP™ receivers that allow instantaneous switching of TV monitors without any delay. Without “Instant Receivers” if a Just Add Power 1G HD over IP™ transmitter is not connected to a screen, the data stream stops. If a receiver is then connected to the same VLAN as the transmitter, the data stream will start but this process takes a few seconds and during this time, the screen will be blank. In order to prevent this, Just Add Power and Just Add Software recommend using extra receivers that always stay connected to their respective video sources. These receivers are not connected to any screens but instead allow for true matrix wide instant switching. If using these receivers, check this box. Please note that at this time, the instant receiver option is only available for 1G hardware.

Sources: This is the number of video sources in use. Click the “Configure Sources” button to enter your source information and/or program custom IP addresses (custom IP addresses available on 2G hardware only).

Screens: This is the number of television screens/monitors being used in the installation. For first generation Just Add Power systems, the number of screens is limited to 200. Second generation systems do not have this limitation. Click the “Configure Screens” button to enter your screen information and/or program custom IP addresses (custom IP addresses available on 2G hardware only).

Save Configuration to file: Clicking this button will allow saving of the configuration from InstallerPro™. This configuration file will be 100% compatible with the configuration files used by MediaSwitcher.™

Load an External Configuration File: One of the advantages of InstallerPro is that all configuration files are stored as comma delimited text files. A master template can be created and used across multiple installation sites or computers. Clicking this button will allow the user to load a previously generated InstallerPro™/MediaSwitcher™ compatible configuration file. Please see the appendix section of this user manual for information on the file format.

Switch Console: The Switch Console display is used to view the information returned by the switch. Additionally, the window is interactive meaning you can manually enter configuration commands just as you would using a terminal emulator. So any additional, manual configuration for special cases, etc. can be done right here. The console window has scroll bars so it is possible to scroll back and see what commands have been sent to the switch. Additionally, the window will scroll left to right as well. And if the configuration window is expanded, the console window will grow as well.

Configuring Sources:

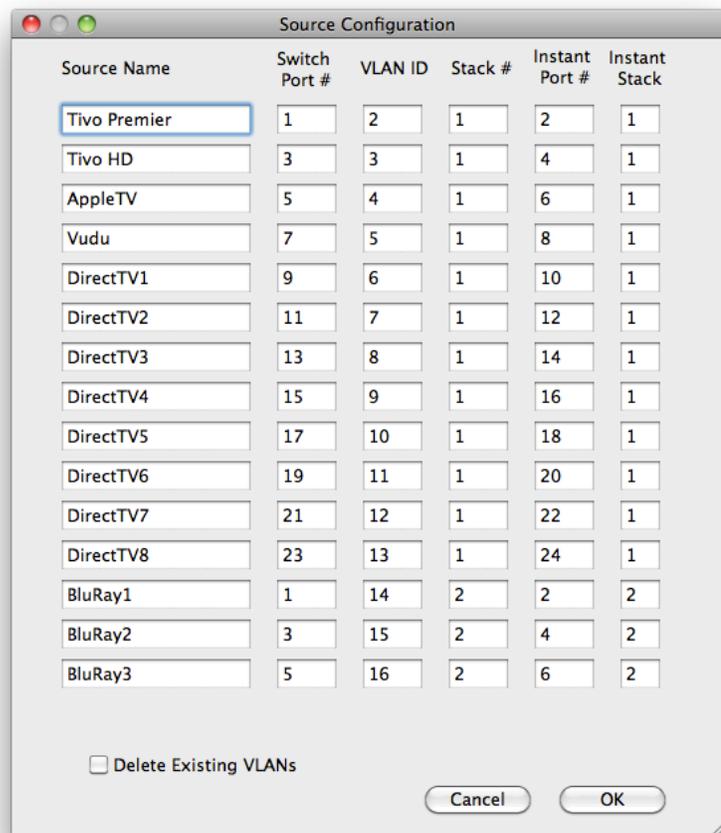
Clicking the “Configure Sources” button will open the source configuration window.

Fill in the name of the sources, the physical port number on the switch used by the source’s Just Add Power HD over IP™ transmitter, and the desired VLAN ID. Depending on the number of sources, the size of the window will change. And depending on the options selected, the contents of the window will change as well.

Navigation between fields in this window can be accomplished by using tab and shift-tab to move between fields on the same line. To move between fields in the same column use the up and down arrow keys. If there are more sources than space available in the window, a scroll bar will appear allowing the user to scroll the additional fields into view. Scrolling can be accomplished by using the arrows on the scroll bar, by using the up or down arrows on the keyboard when moving between fields, by using the tab key to move between fields or by using the scrolling abilities of a mouse or trackpad.

The example on the right is a 1G 15 source installation using stacked switches and instant receivers. The Instant Port # field represents the physical switch port to which the Just Add Power HD over IP™ Instant Receiver is connected. Instant Stack is the switch stack number for the Instant Port.

Note that the “Stack #” and “Instant Stack” fields will only be visible if “Using Stacked Switches” is checked on the configuration window. Additionally, “Instant Port” and “Instant Stack” will only be visible if “Using Instant Receivers” is checked on the configuration window.



Once, all source information has been entered, click OK to exit the screen and go back to the main configuration screen. If you wish to delete any existing VLANs, check the “Delete Existing VLANs” checkbox prior to clicking OK. When the switch is configured, this will delete all VLANs numbered 2 through 99 (VLAN 1 is generally the management VLAN of the switch and cannot be deleted). It is recommended to check this box if the status of any existing VLANs on the switch is unknown.

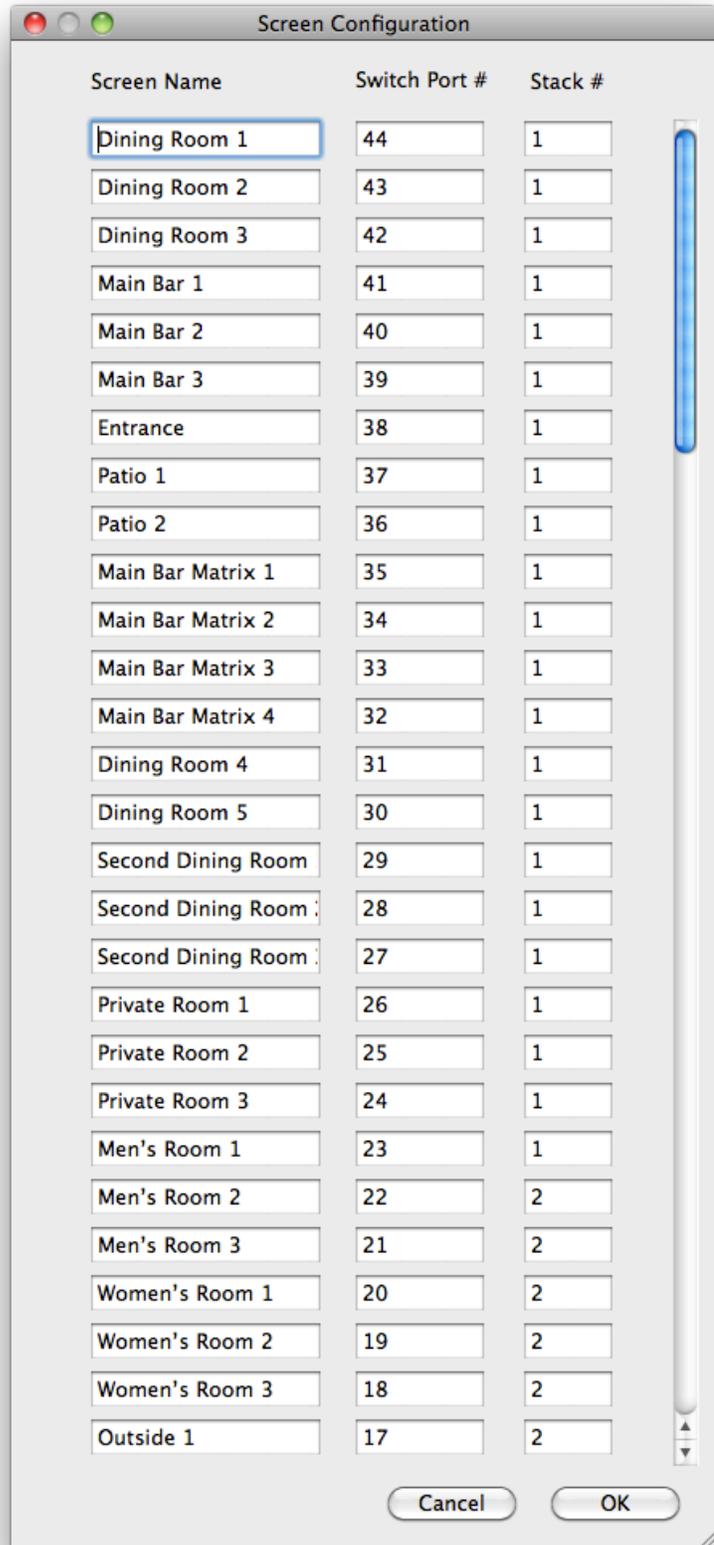
The Cancel button will discard any changes in the window.

Configuring Screens:

The next step is to configure the screens. Click on the “Configure Screens” button. The screen configuration window will then appear. An example is shown here of a 1G 30 screen application using stacked switches. If stacked switches are not used, the “Stack #” column will not be visible.

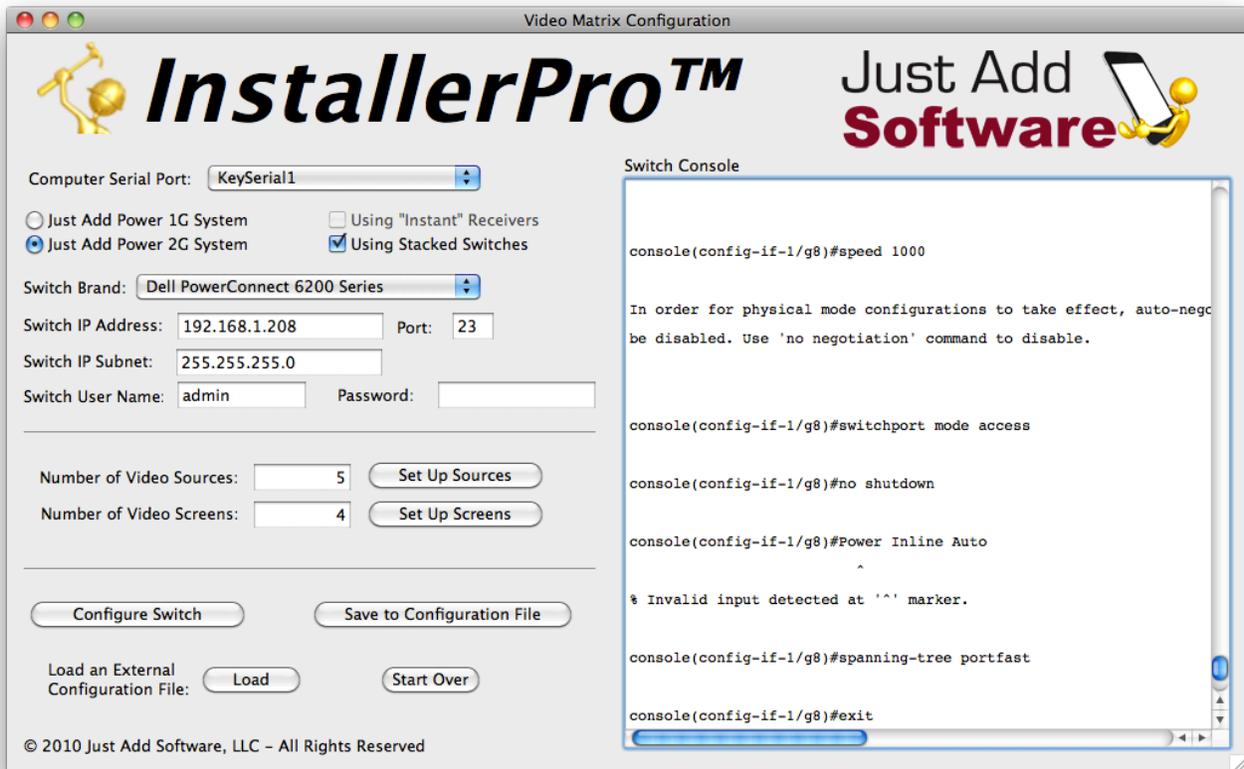
Note that the first 28 screens only are shown as this was what would fit in the window when this screen capture was taken. The remaining two screens can be made visible by scrolling them into view. Scrolling works the same way as described above in the source window.

Once all screen information is complete, please click the “OK” button go back to the main setup window. To discard changes, click “Cancel.” The window will then close and the main configuration window will be in the foreground.



Configuring the Switch:

Once all desired items have been configured in InstallerPro™, it is time to program the switch. Click on the “Configure Switch” button and the appropriate commands will be sent to the switch to perform the initial setup and programming. Commands sent and information received back will be seen in the switch console window. Once you see the data on the console window stop and the prompt is back at the “config” mode of the switch, the programming is complete. You may now disconnect the RS-232 cable and attach any other desired control system to control the switch. The image below is an example of what a successful configuration will look like in the console window.



Depending on the configuration options selected and the brand of switch, dialog boxes may appear asking if the switch is being configured from factory defaults. If the switch has been reset to defaults or is new out of the box, answer yes. Otherwise, answer no. Additionally, if setting a password, some switch models will cause a dialog box to appear asking for the old password and the new password.

If you wish to save this configuration to disk, please click on the “Save to Configuration File” button. This will bring up a file dialog box allowing you to specify the location and name of the file to be stored. IntstallerPro™ configuration files are 100% compatible with the configuration files used by MediaSwitcher™. MediaSwitcher™ is Just Add Software’s solution for controlling the HD over IP matrix using a computer. Additionally, a saved configuration file can be loaded into InstallerPro™ at a later date. So if another site has the exact same configuration, all that needs to be done is to simply load the configuration file (using the “Load” button) and then click

on “Configure Switch.” Or the file can be saved as a backup of your client’s configuration. So for example, if your client wants to later upgrade or get a new switch, all that needs to be done is to load the client’s file, click on configure switch and the job is done.

Software Upgrades:

If you have a valid subscription, and if an internet connection is available, at startup. InstallerPro checks to see if it is the latest version. If a newer version is available, a notice will be displayed. To upgrade to the newer version, please contact Just Add Software or your authorized sales representative.

Advanced Topics

Loading Configuration Files:

The configuration file for InstallerPro™ is a comma delimited text file (CSV) that can be edited manually in any text editor or spread sheet program such as Excel. As a custom installer, a master spreadsheet template can be kept that is easily editable in a user friendly environment such as Excel. Then to use the configuration in InstallerPro™, the spreadsheet is simply exported as a CSV file. It can then be loaded into InstallerPro™. This can make it easy to rapidly deploy multiple installation sites. The format of the configuration file is given below.

Any lines beginning with a “!” will be interpreted by InstallerPro™ as a comment line and will not be read. Such a line can be easily used to make the configuration file more readable and understandable. An unlimited number of comment lines can be in the file. Please note that InstallerPro™ does not save these comments. So any configuration file written over by InstallerPro™ will lose the comments that may have been added.

File Format:

Each line in italics below is a line in the CSV. For the first line, if a G2 system is selected, an optional switch mode parameter of “smooth” or “surf” can be entered. InstallerPro™ does not use the switch mode parameter but MediaSwitcher™ does use this if specified.

G1 or G2 [,optional switch mode] - Use G1 for a 1st Gen System or G2 for a 2nd Gen system

Number Of Sources

Number of Screens

Switch IP Address

Switch Brand

Switch UserName

Switch Password

Switch TCP Connection Port

Stacked Configuration - True or False

Instant Receiver Configuration - True or False

Source #1 Name,Physical Ethernet Port,VLAN ID,Stack ID,Instant Port,Instant stack

Source #2 Name,Physical Ethernet Port,VLAN ID,Stack ID,Instant Port,Instant stack

Source #3 Name,Physical Ethernet Port,VLAN ID,Stack ID,Instant Port,Instant stack

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.

.

Source #x Name,Physical Ethernet Port,VLAN ID,Stack ID,Instant Port,Instant stack

Screen #1 Name,Physical Ethernet Port,Stack ID

Screen #2 Name,Physical Ethernet Port,Stack ID

Screen #3 Name,Physical Ethernet Port,Stack ID

.

.

.

Screen #y Name, Physical Ethernet Port,Stack ID

Here "x" and "y" are the final source and screen numbers.

Stack ID is the stack number in use. If the installation does not use stacked switches, then this value should be 0.

Instant Port is the port for the instant receiver being used. If instant receivers are not being used, then this value should be 0.

Instant Stack is the stack number for the instant receiver. If instant receivers or stacked switches are not being used, then this value should be 0.

So for a file for a First Generation system with 10 sources and 5 screens not using stacked switches or instant receivers we would have the following:

```
G1
10
5
192.168.1.2
Dell PowerConnect 3500 Series
admin
```

```
23
False
False
Tivo HD1,1,10,0,0,0
Tivo HD2,3,11,0,0,0
Tivo HD3,5,12,0,0,0
AppleTV,7,13,0,0,0
Vudu XL,9,14,0,0,0
Boxee,11,15,0,0,0
BluRay1,13,16,0,0,0
BluRay2,15,17,0,0,0
SecurityCam1,17,18,0,0,0
SecurityCam2,19,19,0,0,0
Family Room,2,0
Living Room,4,0
MasterBedroom,6,0
Guest Bedroom,6,0
Den,10,0
```

For the same configuration using stacked switches we would have:

G1
10
5
192.168.1.2
Dell PowerConnect 3500 Series
admin

23
False
False
Tivo HD1,1,10,1,0,0
Tivo HD2,3,11,1,0,0
Tivo HD3,5,12,1,0,0
AppleTV,7,13,1,0,0
Vudu XL,9,14,1,0,0
Boxee,11,15,1,0,0
BluRay1,13,16,1,0,0
BluRay2,15,17,1,0,0
SecurityCam1,17,18,2,0,0
SecurityCam2,19,19,2,0,0
Family Room,2,1
Living Room,4,2
MasterBedroom,6,1
Guest Bedroom,6,2
Den,10,2

Let's assume the same configuration but this time using a Dell PowerConnect 5400 switch and a G2 system:

G2, smooth
10
5
192.168.1.2
Dell PowerConnect 5400 Series
admin

23
False
False
Tivo HD1,1,10,0,0,0
Tivo HD2,3,11,0,0,0
Tivo HD3,5,12,0,0,0

AppleTV,7,13,0,0,0
Vudu XL,9,14,0,0,0
Boxee,11,15,0,0,0
BluRay1,13,16,0,0,0
BluRay2,15,17,0,0,0
SecurityCam1,17,18,0,0,0
SecurityCam2,19,19,0,0,0
Family Room,2,0
Living Room,4,0
MasterBedroom,6,0
Guest Bedroom,6,0
Den,10,0

This file can be edited in a spreadsheet like Excel and saved as a comma delimited text file (note that some spreadsheet programs add a trailing comma at the end of each line. Excel does not do this and so is recommended). All information can be entered ahead of time. Then to load the file, go to the configuration window and click on "Load Configuration File." You'll then be able to pick the file you want to load and it will then make the entries in that file the current configuration.

It is important that the switch brand/model be properly entered. The following models are currently supported at the time of the release of version 1.0. It is planned to add more switches in subsequent releases of InstallerPro™.

Generation 1 Systems:

Dell PowerConnect 3500 Series
Dell PowerConnect 5400 Series
Dell PowerConnect 6200 Series
Cisco Catalyst 2960
Cisco Catalyst 2960 Gigabit
DLink DES-3226L
Netgear 7000 Series
Pakedge SW24-GBM

Generation 2 Systems (requires Gigabit):

Dell PowerConnect 5400 Series
Dell PowerConnect 6200 Series
Cisco Catalyst 2960 Gigabit
Netgear 7000 Series
Pakedge SW24-GBM

An incorrect entry will bring up a message indicating that switch model is not supported.