



LCI With PD100

How to configure and Install a PD100 in both Com and
Managed Dre

PD100

- The PD100 is a great option for properties that wish to insert their own content as a channel.
- For the Com system a PD100 is required in order to insert a channel through the Com
- In a managed Dre the property has the option of either loading the video directly to the MCS server, or if they wish to have more control over the content they can use a PD100 with a DVD player or Laptop in order to play the content.





PD100 Connections

The PD100 is able to accept input from a number of different connection types. You can connect content to it via:

- Composite
- Component
- HDMI
- As well as feed audio in via digital optical or Coaxial



First Time Configuration

- If the PD100 has not been configured you will need to login to the unit and configure it for the system that it will be integrated in.
- To connect to the PD100 power it on and use an ethernet cable to connect from a laptop to the PD100

Configure IPv4 Settings

- In order to connect to the PD100 you will need to configure your IPv4 settings.
- Fresh out of the box you will need to set your IPv4 Settings to the following
- IP Address: 169.254.22.1
- Subnet Mask: 255.255.255.0

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address:

169 . 254 . 22 . 1

Subnet mask:

255 . 255 . 255 . 0

Default gateway:

. . .

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server:

. . .

Alternate DNS server:

. . .

Validate settings upon exit

Advanced...

OK

Cancel



Welcome!

No preview support! Preview OFF

Device Name:	HDIP249183
Program Name:	HDIP001
Model Number:	PD100
Serial Number:	1825 249183
MAC Address:	98:0D:EA:83:CD:5F
Firmware Version:	2016062910

Accessing the PD100

- Once your IPv4 settings have been configured connect to the PD100 via an ethernet cable.

- When you are connected open a web browser and navigate to [Http://169.254.22.129:8888](http://169.254.22.129:8888)

	Video	Audio
Input Source	NONE / ??	Analog
Output Format	MPEG-2 CBR / 480p30	AC-3
Output Rate	4.000 Mbps	128 Kbps
Actual Output	4.472 Mbps	
Encoder Status	Freerun	
Clients	1	



Welcome! •



No preview support!

Preview OFF

Device Name:	HDIP249183
Program Name:	DEMO-TV
Model Number:	PD100
Serial Number:	1825 249183
MAC Address:	F8:0D:EA:83:CD:5F
Firmware Version:	2016062910
Streaming:	Unicast

	Video	Audio
Input Source	NONE / ??	Analog
Output Format	MPEG-2 CBR / 480p30	AC-3
Output Bitrate	4.000 Mbps	128 Kbps
Actual Output	4.472 Mbps	
Encoder Status	Freerun	
Clients	1	

- First we will need to change the network in which the PD100 is on. Depending on which system you are placing the PD100 the network setting we use will change.

Navigate to the Network Setup Page



Welcome!

Sign In

Device Name:	20160629183
Program Name:	DEMO-TV
Model Number:	PD100
Serial Number:	1825 249183
MAC Address:	F8:0D:EA:83:CD:5F
Firmware Version:	2016062910
Streaming:	Unicast

- Once you click on the Network Setup link at the top you will be prompted to sign in.

- Enter the username: admin
- Enter the password: Admin123

- Click Sign In and you will be taken to the Network Setup page.

Sign in

http://192.168.6.55

Your connection to this site is not private

Username

Password

Sign in Cancel

No preview support! Preview OFF

	Video	Audio
Input Source	NONE / ??	Analog
Output Format	MPEG-2 CBR / 480p30	AC-3
Output Bitrate	4.000 Mbps	128 Kbps
Actual Output	4.466 Mbps	
Encoder Status	Freerun	
Clients	1	

Network Setup

This page allows the user to configure the encoder's network settings.

CAUTION: Incorrect settings may cause the encoder to lose network connectivity. Recovery options will be provided on the next page.

Device Network

Hostname: HDIP249183

MAC Address: F8:0D:EA:83:CD:5F

Enable DHCP:

IP Address: 192.168.6.55

Subnet Mask: 255.255.0.0

Default Gateway: 192.168.6.1

DNS Server:

NTP Server:

Time Zone: (UTC) Universal Time Coordinated

Speed & Duplex: Auto

DLNA Settings

Device Name: HDIP249183

HTTP/SOAP Port: 8888

Save and Confirm Cancel

If we are configuring the PD100 for a Com we will need to set the following values on the Network Setup page.

- IP Address: 192.168.6.55
 - If you are configuring multiple PD100's for a Com you will go up by 1 for each PD100. Example PD100 number 2 would have an IP address of 192.168.6.56 three would be 192.168.6.57 and so on.
- Subnet Mask: 255.255.0.0
- Default Gateway: 192.168.6.1
- DNS Server: Leave Blank
- NTP Server: Leave Blank

Once you have set this information click the Save and Confirm button at the bottom. The PD100 will restart and you will lose connection.

Network Setup For Com

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address:

192 . 168 . 3 . 254

Subnet mask:

255 . 255 . 0 . 0

Default gateway:

. . .

Obtain DNS server address automatically

Use the following DNS server addresses:

Change your IPv4 Settings

- Once you have lost connection to the PD100 you will need to change your IPv4 settings in order to reconnect.
- Change your IPv4 Settings to the same setting you would use to connect to the Com.
- In case you have forgotten they are the following:
 - IP Address: 192.168.3.254
 - Subnet Mask: 255.255.0.0

Reconnect to the PD100

- Once you have changed your IPv4 settings you can reconnect to the PD100 by opening a web Browser and connecting to 192.168.6.55 (or other address depending on which PD100 you are connecting to)
- Click on the Streaming Setup link at the top

2015-04-01 03:40:39
GMT+0000 (UTC)
Up 3 hours 40 minutes

PICO DIGITAL

Overview Encoder Setup **Streaming Setup** Network Setup Administration PD100

Welcome!

No preview support!
Preview OFF

Device Name:	HDIP249183
Program Name:	DEMO-TV
Model Number:	PD100
Serial Number:	1825 249183
MAC Address:	F8:0D:EA:83:CD:5F
Firmware Version:	2016062910
Streaming:	Unicast

	Video	Audio
Input Source	NONE / ??	Analog
Output Format	MPEG-2 CBR / 480p30	AC-3
Output Bitrate	4.000 Mbps	128 Kbps
Actual Output	4.478 Mbps	
Encoder Status	Freerun	
Clients	1	

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Streaming Setup

This page allows the user to configure the streaming settings. Use the **Add** button to append a new casting item to the list, and use the **Remove** button to delete the selected casting items from the list. After changes are made, use the **Save and Confirm** button. The streaming engine will apply the new settings.

Stream Server

Enable HTTP:

Broadcasting Streaming Setup

Protocol: UDP Multicasting

Destination IP:

Destination Port: 1234

Multicast TTL: 4

- Once you are on the streaming setup page we are ready to designate which channel the PD100 will be streaming on through the Com. Or on an IP system which IP address the PD100 will be located on.

Remove 1 / 16

Save and Confirm

Cancel

Streaming Setup QAM Configuration

If you are doing an RF Com we will need to decide which channel the PD100 will be located. We will do this by using the base ports associated with each channel. In this example we will be streaming on channel 30.2

- Once you have decided on your channel we will start by Using the Protocol: drop down window and selecting UDP Unicasting
- Next we will need to enter the IP address of the QAM blade that we wish to output from. This is usually 192.168.6.2 but can be different.
- In the Destination Port: field we will enter the base port representing the channel we wish to use.
- After you have entered all this information click add and the new IP address will show up in the Streaming List: field below.
- By default there is an address already in this field. Simply click on the undesired address and click the Remove button at the bottom to delete it.
- Once you have all the information entered and added to the Streaming List don't forget to click on the Save and Confirm button at the bottom of the page.

Protocol: UDP Unicasting

Destination IP: 192.168.6.2

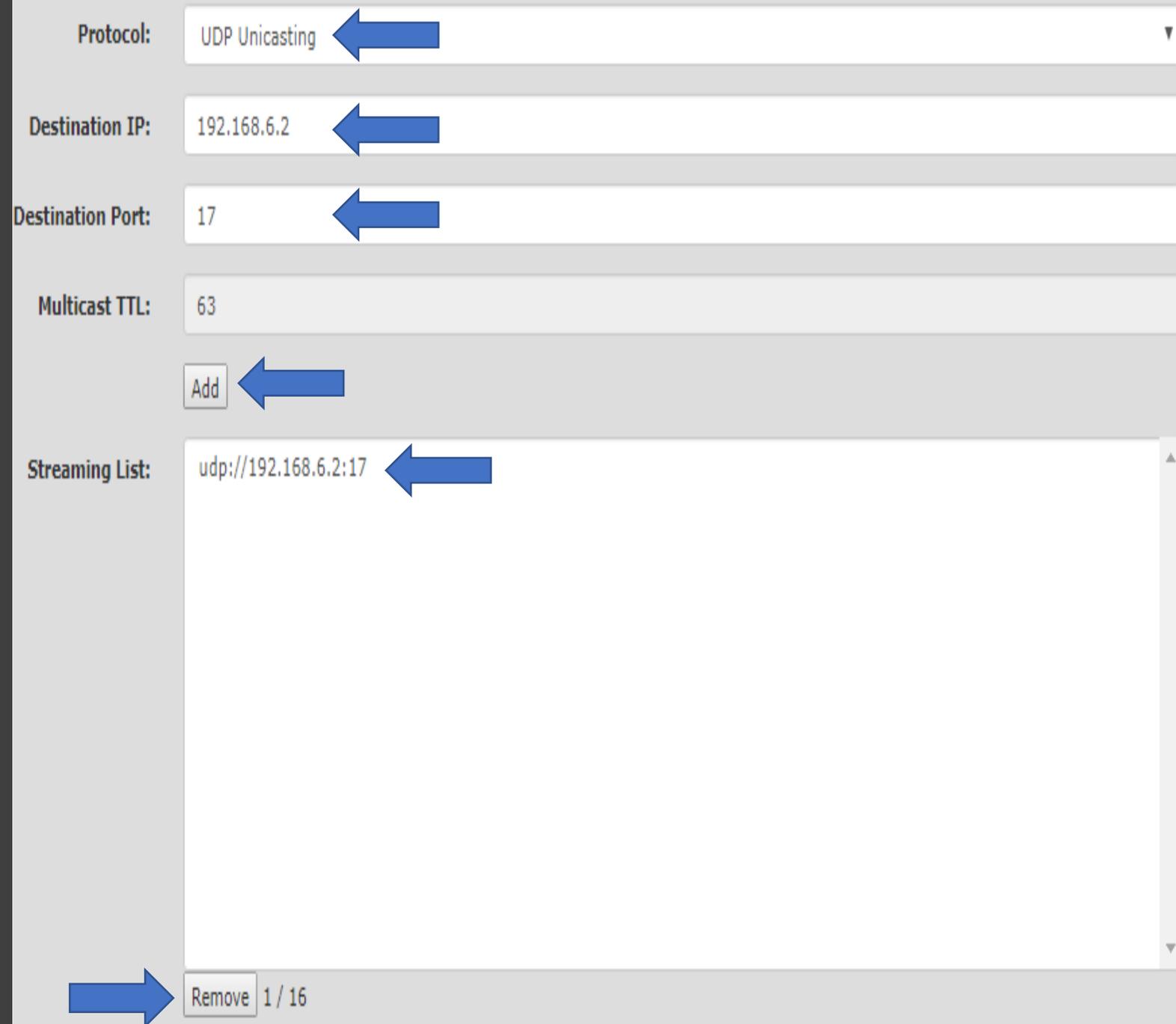
Destination Port: 17

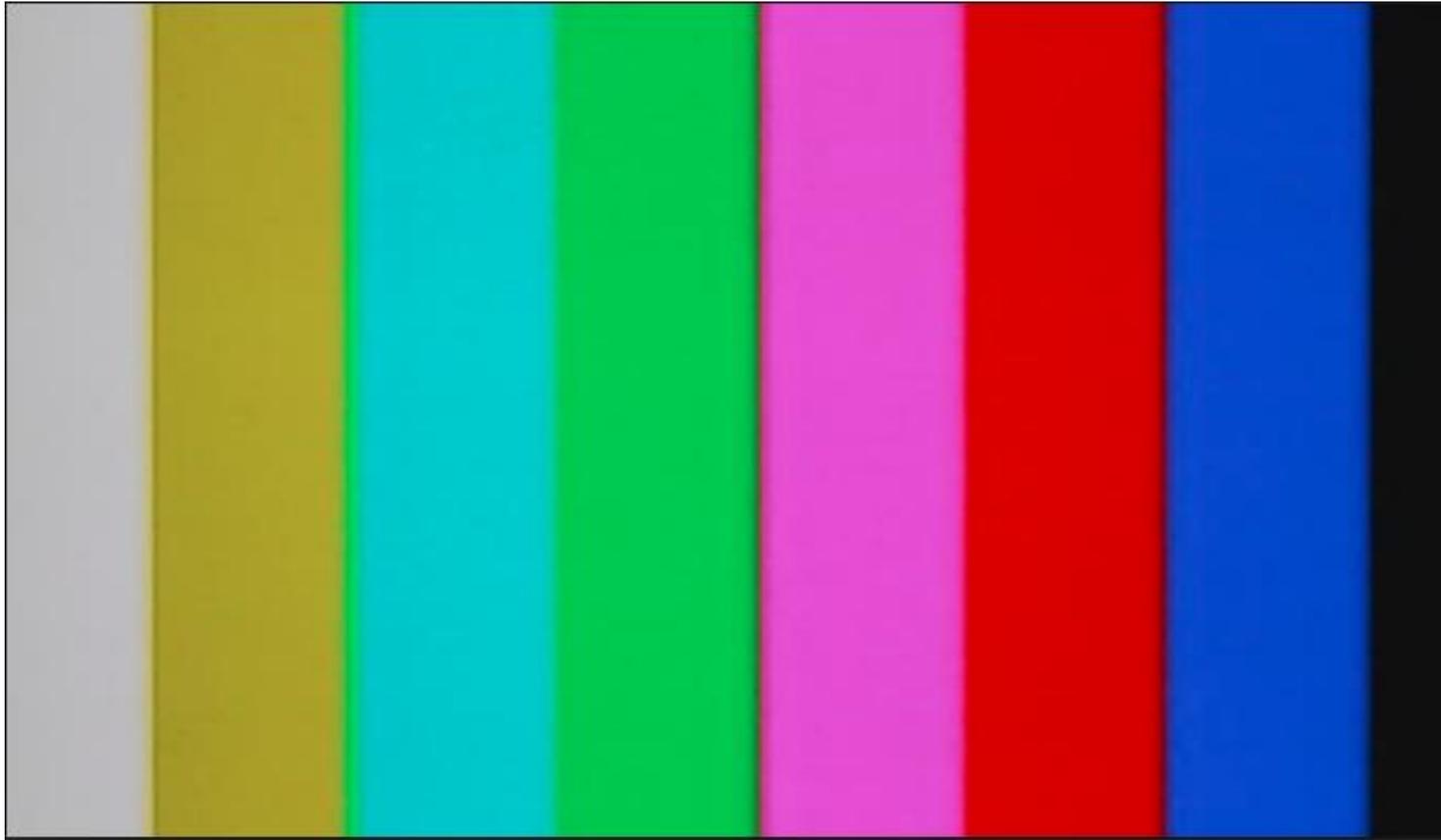
Multicast TTL: 63

Add

Streaming List: udp://192.168.6.2:17

Remove 1 / 16

A screenshot of a web-based configuration interface for QAM streaming. The interface consists of several input fields and a list. The 'Protocol' field is a dropdown menu set to 'UDP Unicasting'. The 'Destination IP' field contains '192.168.6.2'. The 'Destination Port' field contains '17'. The 'Multicast TTL' field contains '63'. Below these fields is an 'Add' button. The 'Streaming List' is a large text area containing the entry 'udp://192.168.6.2:17'. At the bottom of the list is a 'Remove' button and a counter '1 / 16'. Blue arrows point to the Protocol dropdown, the Destination IP field, the Destination Port field, the Add button, the Streaming List entry, and the Remove button.



Ready to Connect

Once you have set the QAM IP address and port to indicate which channel it will be streaming on you are ready to connect the PD100 to the Com.

- Disconnect the ethernet cable from your laptop and connect it to the front of the Com unit. You should be able to navigate to the QAM page of the Com and check the bitrate for the chosen channel to see if its streaming.
- At this point you should be able to also scan your PD100 channel on the test TV. Even with nothing connected you should get a color bar screen which is the default output of the PD100.

Network Setup

This page allows the user to configure the encoder's network settings.

CAUTION: Incorrect settings may cause the encoder to lose network connectivity. Recovery options will be provided on the next page.

Device Network

Hostname: HDIP249183
 MAC Address: F8:0D:EA:83:CD:5F
 Enable DHCP:
 IP Address: 172.16.1.55
 Subnet Mask: 255.255.0.0
 Default Gateway: 172.16.1.1
 DNS Server: 8.8.8.8
 NTP Server: 8.8.4.4
 Time Zone: (UTC) Universal Time Coordinated
 Speed & Duplex: Auto

DLNA Settings

Device Name: HDIP249183
 HTTP/SOAP Port: 8888

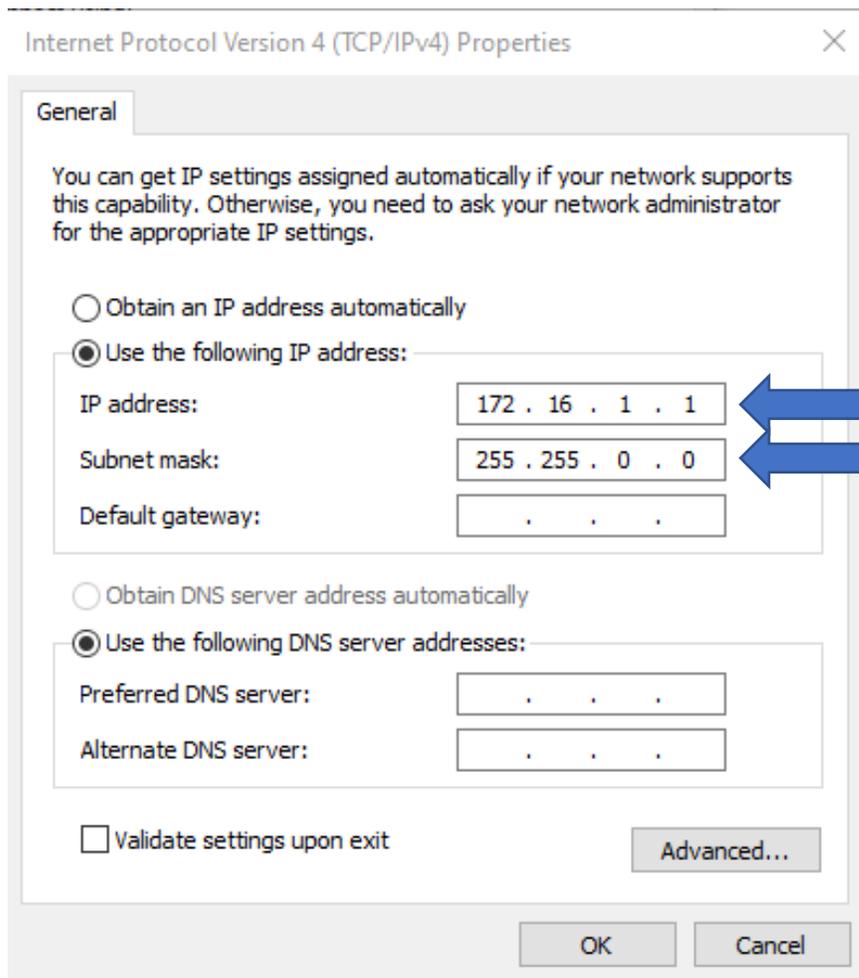
 Save and Confirm 

If we are configuring the PD100 for a DRE we will need to set the following values on the Network Setup page.

- IP Address: 172.16.1.55
 - If you are configuring multiple PD100's for a DRE you will go up by 1 for each PD100. Example PD100 number 2 would have an IP address of 172.16.1.56 three would be 172.16.1.57 and so on.
- Subnet Mask: 255.255.0.0
- Default Gateway: 172.16.1.1
- DNS Server: 8.8.8.8
- NTP Server: 8.8.4.4

Once you have set this information click the Save and Confirm button at the bottom. The PD100 will restart and you will lose connection.

Network Setup for Dre



Change your IPv4 Settings

Once you have lost connection to the PD100 you will need to change your IPv4 settings in order to reconnect.

Change your IPv4 Settings to the same network as the Managed Dre

- IP Address: 172.16.1.1
- Subnet Mask: 255.255.0.0

The screenshot shows a configuration form for streaming setup. It includes the following fields and controls:

- Protocol:** A dropdown menu set to "RTP Multicasting".
- Destination IP:** A text input field containing "239.255.101.0".
- Destination Port:** A text input field containing "50000".
- Multicast TTL:** A text input field containing "1".
- Add:** A button to add the current configuration to the list.
- Streaming List:** A list box containing the URL "rtp://239.255.101.0:50000".
- Remove:** A button at the bottom left of the list box, labeled "Remove 1 / 16".

Once you are on the streaming setup page we are ready to designate which channel the PD100 will be streaming on through the Dre.

- Using the drop down window in the Protocol: field select the RTP Multicast option
- In the Destination IP: field enter 239.255.101.0 This address is for channel 2501
- In the Destination Port: field enter 50000
- In the Multicast TTL: field set the value to 1
- Once all of the information has been entered click the Add button to enter the address into the Streaming List: field
- If there are any undesired addresses click on them to highlight them then click on the Remove button at the bottom.

Once you have removed and added the needed addresses don't forget to click the Save and Confirm button on the bottom of the page.

Streaming Setup Managed Dre

Dre Streaming Setup Explained

The range of usable channels are 2500-2600, and the number that identifies the channel is the 3rd set. *Example:* 239.255.XXX.0 with XXX being the identifier. The equation to discover XXX is as follows: To set a channel on 2546, we subtract 2400 from the desired channel number. $2546 - 2400 = 146$. Therefore, the IP address for channel 2546 is 239.255.146.0. Likewise $2501 - 2400 = 101$. Thus, the IP address for channel 2501 is 239.255.101.0

The Destination port is always 50000

Encoder Setup

This page allows the user to configure the encoder's settings. After changes are made use the Save and Confirm button. The encoder will reboot and apply the new settings.

Channel

Program Name: DEMO-TV

Video Control

Video Input: Auto detect

Video Output: MPEG-2 CBR

Resolution: Same as Input

Framerate: Same as Input

H.264 Profile: Default

H.264 Level: Default

HD Bitrate: 10.000 Mbps (10~20)

SD Bitrate: 4.000 Mbps (2~8)

Aspect Ratio: 16:9

Audio Control

Audio Input: Auto detect

Audio Output: AC-3

Audio Bitrate: 128 Kbps

Encoder Setup

Once you have finished the Streaming Setup you will need to navigate to the Encoder Setup by using the link at the top. You will need to make the following changes.

- Video Input: Auto Detect
- Video Output: H.264
- Resolution: Same as Input
- Frame Rates: Same as Input
- H.264 Profile: BASE
- H.264 Level: Level 1
- HD Bitrate: 10
- SD Bitrate: 4
- Aspect Ratio: 16:9
- Audio Input: Auto Detect
- Audio Output: AC-3
- Audio Bitrate: 256 Kbps

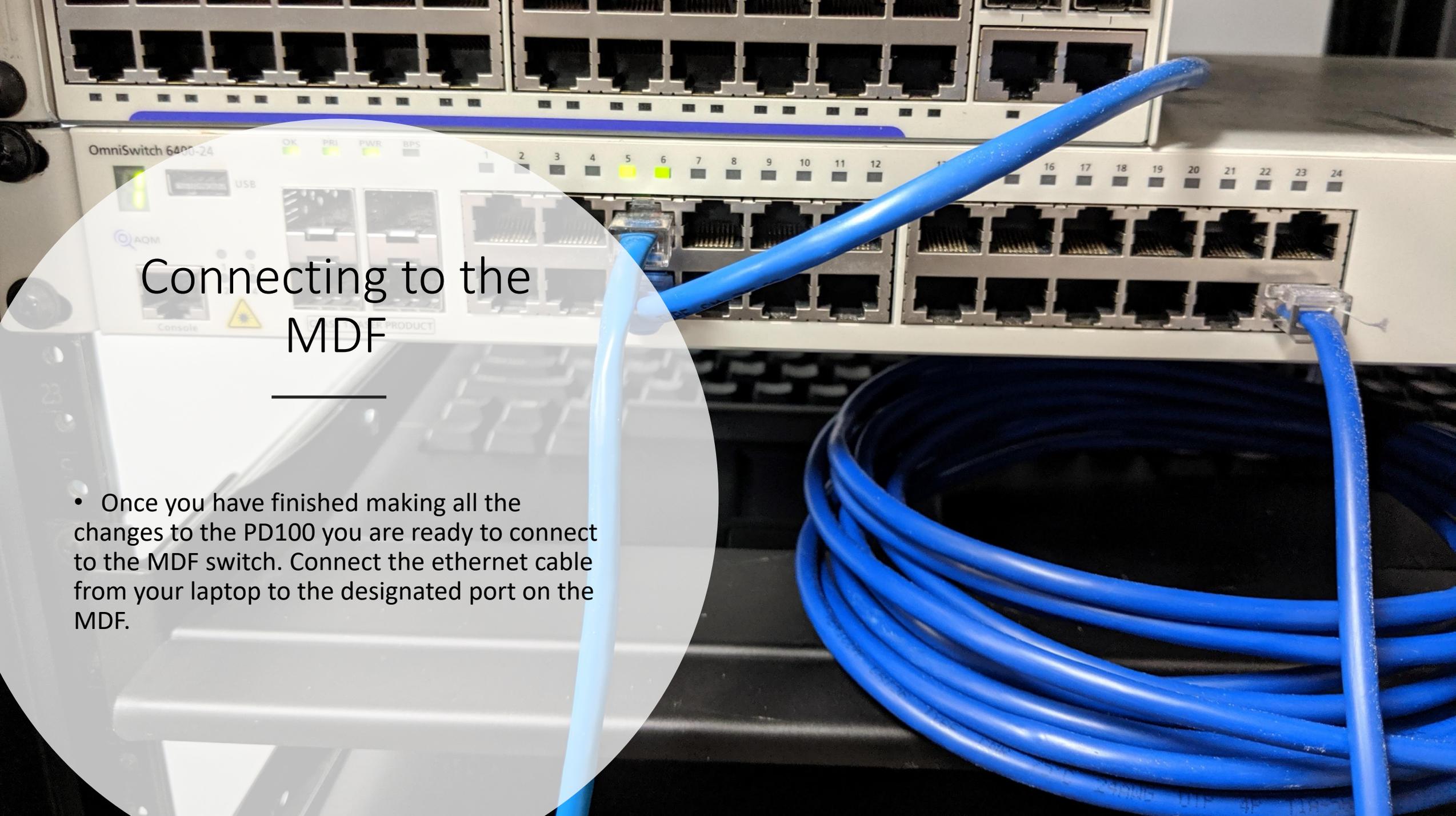
Brightness: 128 ▼
Contrast: 128 ▼
Saturation: 128 ▼
Hue: 128 ▼

TS ID: 1 ←
Program Number: 100 ←
PMT PID: 1000 ←
Video PID: 1001 ←
Audio PID: 1002 ←
PCR PID: 1001 ←

 HDCP(test mode):
Closed Caption:
Save and Confirm Cancel

Encoder Setup Cont.

- TS ID: 1
- Program Number: 100
- PMT PID: 1000
- Video PID: 4176
- Audio PID: 4177
- PCR PID: 4176
- Don't forget to click Save and Confirm at the bottom of the screen.



Connecting to the MDF

- Once you have finished making all the changes to the PD100 you are ready to connect to the MDF switch. Connect the ethernet cable from your laptop to the designated port on the MDF.



DIRECTV Management Control System

Location: Chataeux

Logged in as: mcsadmin | [Administrator Settings](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Commands: Groups: Defaults: Channel Lists:

Commands: Last Updated: 8/9/2019 1:53:44 PM

Room [PMS ID]	RID	IP	Signal	Version	Model	M	DS			Active
<input type="checkbox"/> All						<input type="button" value="M"/>	<input type="button" value="DS"/>			255/255
<input type="checkbox"/> Unassigned										
<input type="checkbox"/> Chateaux										
<input type="checkbox"/> Residence club										

Auto-refresh if idle for 10 minutes Total Receiver Count: 255

Version: 3.98 © DIRECTV 2010-2018

MCS Server

- Once the PD100 has been connected to the MDF switch log onto the MCS server.
- From here click on Administrator Settings at the top.

DIRECTV Management Control System

Location: Chataeux Logged in as: mcsadmin | [View Receiver List](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Property Information Admin Receiver List Users Alerts Local Channels **Video Sources** Import/Export Status

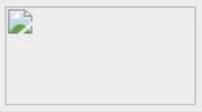
Property Name/Location:

Current Name/Location: [Save Property Name](#)

Property Address: [Save Property Address](#)

Property Logo:

[Upload New Logo](#) [Apply Logo to all Receivers](#)

Current Logo: 

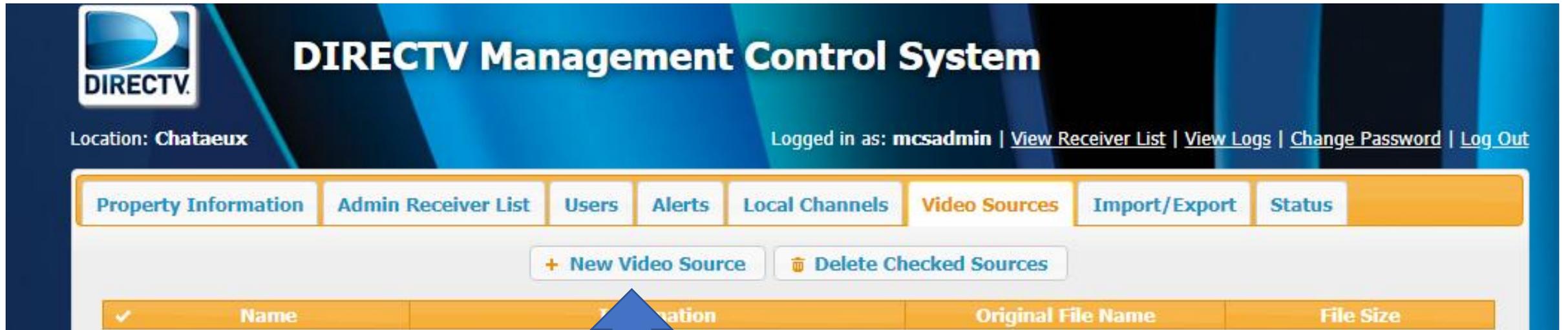
Version: 3.98 © DIRECTV 2010-2011

- From the Administrator Settings page click on the Video Sources tab.

Administrator Settings

New Video Source

Once on the Video Source tab click on the + New Video Source button



The screenshot displays the DIRECTV Management Control System interface. At the top left is the DIRECTV logo. The main title is "DIRECTV Management Control System". Below the title, the location is "Chataeux" and the user is logged in as "mcsadmin". Navigation links include "View Receiver List", "View Logs", "Change Password", and "Log Out". A horizontal menu contains tabs for "Property Information", "Admin Receiver List", "Users", "Alerts", "Local Channels", "Video Sources", "Import/Export", and "Status". The "Video Sources" tab is active. Below the menu, there are two buttons: "+ New Video Source" and "Delete Checked Sources". A blue arrow points to the "+ New Video Source" button. Below the buttons is a table header with columns: "Name", "Information", "Original File Name", and "File Size".

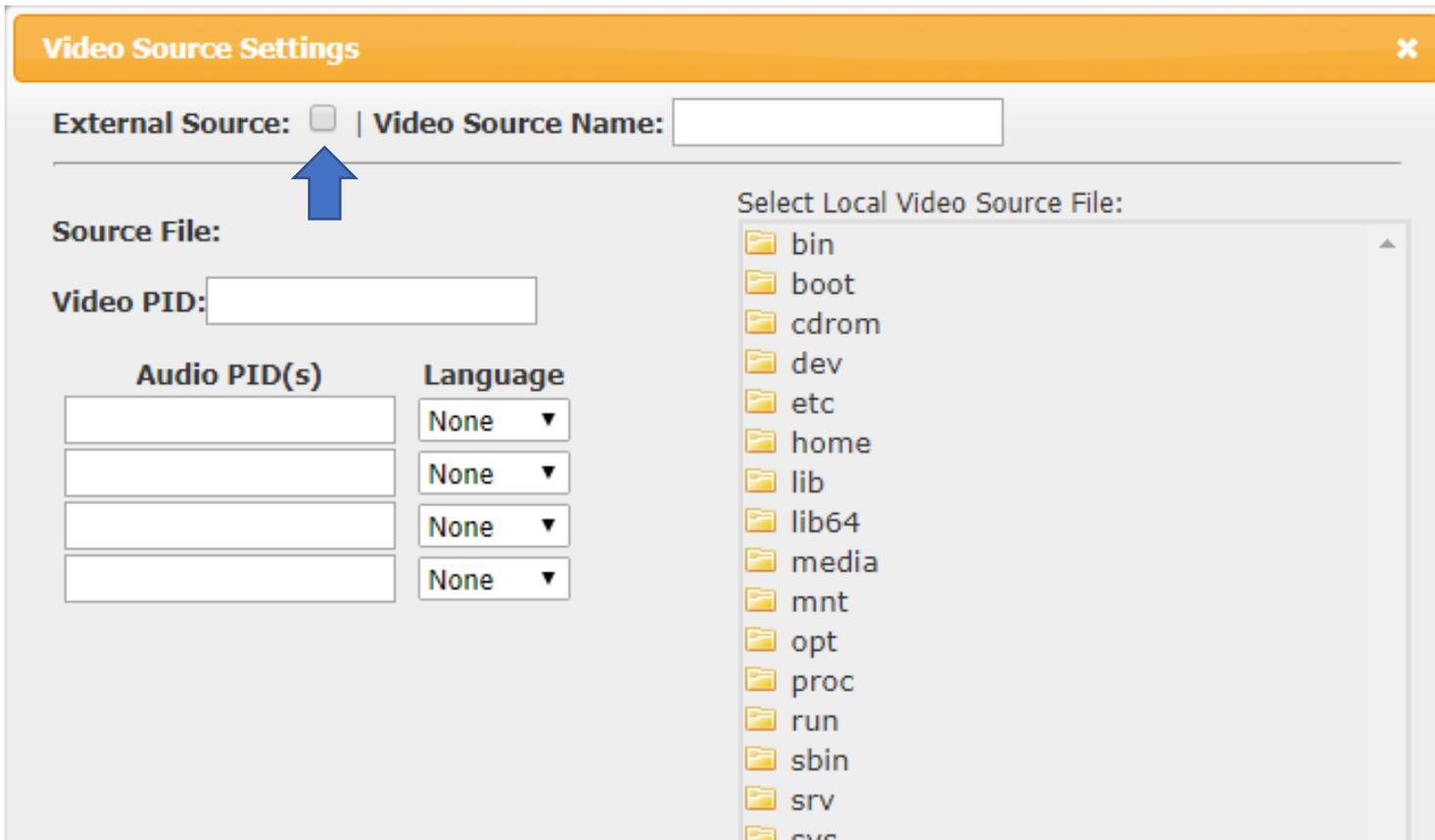
Location: Chataeux

Logged in as: mcsadmin | [View Receiver List](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Property Information | Admin Receiver List | Users | Alerts | Local Channels | **Video Sources** | Import/Export | Status

+ New Video Source | Delete Checked Sources

✓	Name	Information	Original File Name	File Size
---	------	-------------	--------------------	-----------



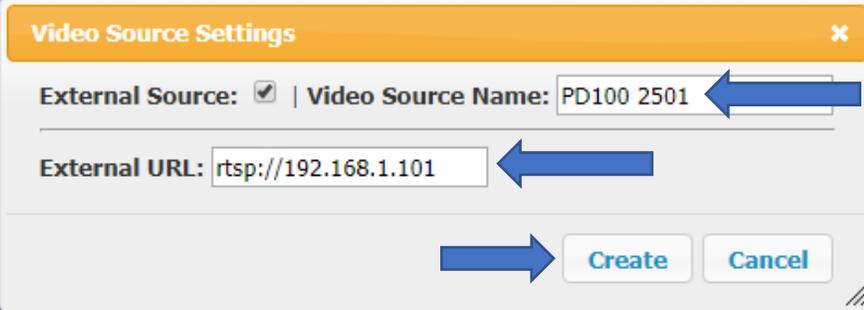
In the Video Source Settings window we will now need to identify that the channel is coming from an external source.

- Select the External Source check box at the top.

Video Source Settings

External Source

- Once you select the external source check box you will notice that the amount of information we need to enter dramatically decreases.
- Now we will need to enter a name into the Video Source Name field
- After we can set the External URL field
- The URL used in the DRE uses a 192.168.1.xxx format where xxx = the chosen channel on the PD100. So using our setup example we used 239.255.101.0 to configure the PD100 for output on channel 2501. Using this address we will take the identifying number 101 and use it in the MCS address.
- Once you are done the address should look like this: rtsp://192.168.1.101
- Once you have filled out the needed information click on the Create button to create the video source on the MCS.



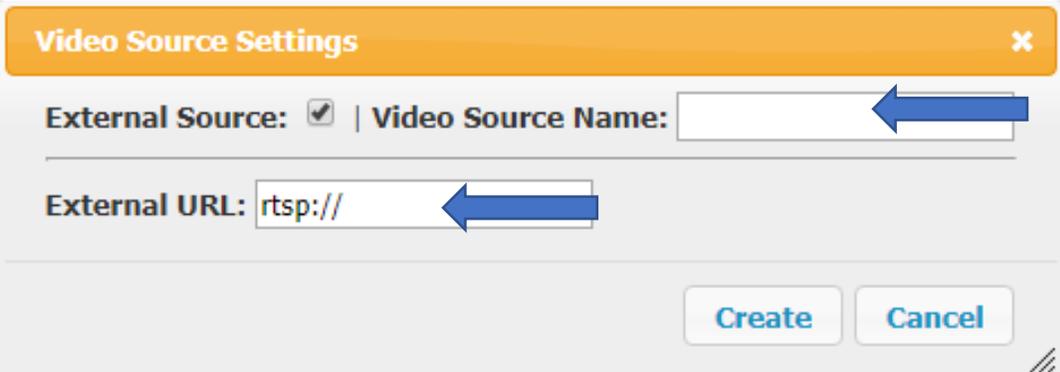
Video Source Settings

External Source: | Video Source Name: PD100 2501

External URL: rtsp://192.168.1.101

Create Cancel

This screenshot shows the 'Video Source Settings' dialog box. The 'External Source' checkbox is checked. The 'Video Source Name' field contains 'PD100 2501'. The 'External URL' field contains 'rtsp://192.168.1.101'. Blue arrows point to each of these fields. At the bottom right, there are 'Create' and 'Cancel' buttons, with a blue arrow pointing to the 'Create' button.



Video Source Settings

External Source: | Video Source Name:

External URL: rtsp://

Create Cancel

This screenshot shows the 'Video Source Settings' dialog box. The 'External Source' checkbox is checked. The 'Video Source Name' field is empty. The 'External URL' field contains 'rtsp://'. Blue arrows point to each of these fields. At the bottom right, there are 'Create' and 'Cancel' buttons.

Local Channel

The screenshot displays the DIRECTV Management Control System interface. At the top left is the DIRECTV logo. The main title is "DIRECTV Management Control System". Below the title, the location is "Chataeux" and the user is logged in as "mcsadmin". A navigation bar contains tabs for "Property Information", "Admin Receiver List", "Users", "Alerts", "Local Channels", "Video Sources", "Import/Export", and "Status". The "Local Channels" tab is selected. Below the navigation bar, there are several action buttons: "+ New Channel", "Delete Checked Channels", "Set Channel Numbers", "Refresh Channel Guide", and "Restart All Videos". A table with columns "Channel Number", "Channel Name", "Channel Description", and "Video Source" is visible. A blue arrow points to the "+ New Channel" button, and another blue arrow points to the "Local Channels" tab.

- Once you have created the video source we will need to create the channel that it will be broadcasting on.
- Navigate to the Local Channels tab on the MCS
- From here we will need to click on the + New Channel button

Channel Settings ✕

Channel Call Sign: LCI ←

Channel Name: LCI Channel ←

Channel Description: Property Information ←

Program Title: Local Events ←

Program Description: Events at the property this week ←

Parental Rating: No Rating ▼

Video Source: 8.9.19 ▼ ←

Creating the Channel

- Once you have clicked on the + New Channel button you will get the Channel Settings tab.
- From here you will need to fill out every field. Keep in mind that the property and the guests will see this information so try to make it professional and if in doubt ask the property how they would like it to look.
- At the bottom you will select the drop down window next to Video Source: and select the name we set for the channel we created on the Video Source tab.
- Once all of this has been set click on the Create button on the bottom to create the channel.

DIRECTV Management Control System

Logged in as: mcsadmin | [View Receiver List](#) | [View Logs](#) | [Change Pas](#)

Information Admin Receiver List Users Alerts **Local Channels** Video Sources Import/Export Status

New Channel Delete Checked Channels Set Channel Numbers Refresh Channel Guide Restart All Vid

✓	Channel Number	Channel Name	Channel Description	Video So
<input checked="" type="checkbox"/>	1 ▾ - 1 ▾	Real Estate	Available Real Estate	8.9.19

Setting a Channel Number

- Now we will need to set the channel number. Remember that the channel number is already pre determined by how we configure the MCS and the PD100 so in this instance the only option we have is 2501
- Using the drop down window to the right of the channel we just created select channel 2501
- Check the check box next to the channel number and then click the Set Channel Numbers button at the top.



DIRECTV Management Control System

Location: Chataeux

Logged in as: mcsadmin | [View Receiver List](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Property Information | Admin Receiver List | Users | Alerts | **Local Channels** | Video Sources | Import/Export | Status

+ New Channel | Delete Checked Channels | Set Channel Numbers | Refresh Channel Guide | Restart All Videos

C	✓	Channel Number	Channel Name	Channel Description	Video Source
0.7%	<input checked="" type="checkbox"/>	1 - 1	Real Estate	Available Real Estate	8.9.19

Version: 3.98 © DIRECTV 2010-2018

Check the Percentage

- Unlike when videos are loaded directly onto the MCS server. External sources will not show a percentage under the C column. You will need to verify the channel is working in a room or on a receiver that is connected to the managed system.



DIRECTV Management Control System

Location: Chataeux

Logged in as: mcsadmin | [Administrator Settings](#) | [View Logs](#) | [Change Password](#) | [Log Out](#)

Commands Groups Defaults Channel Lists 

Select Select Select Select

Commands: Last Updated: 8/9/2019 1:53:44 PM 

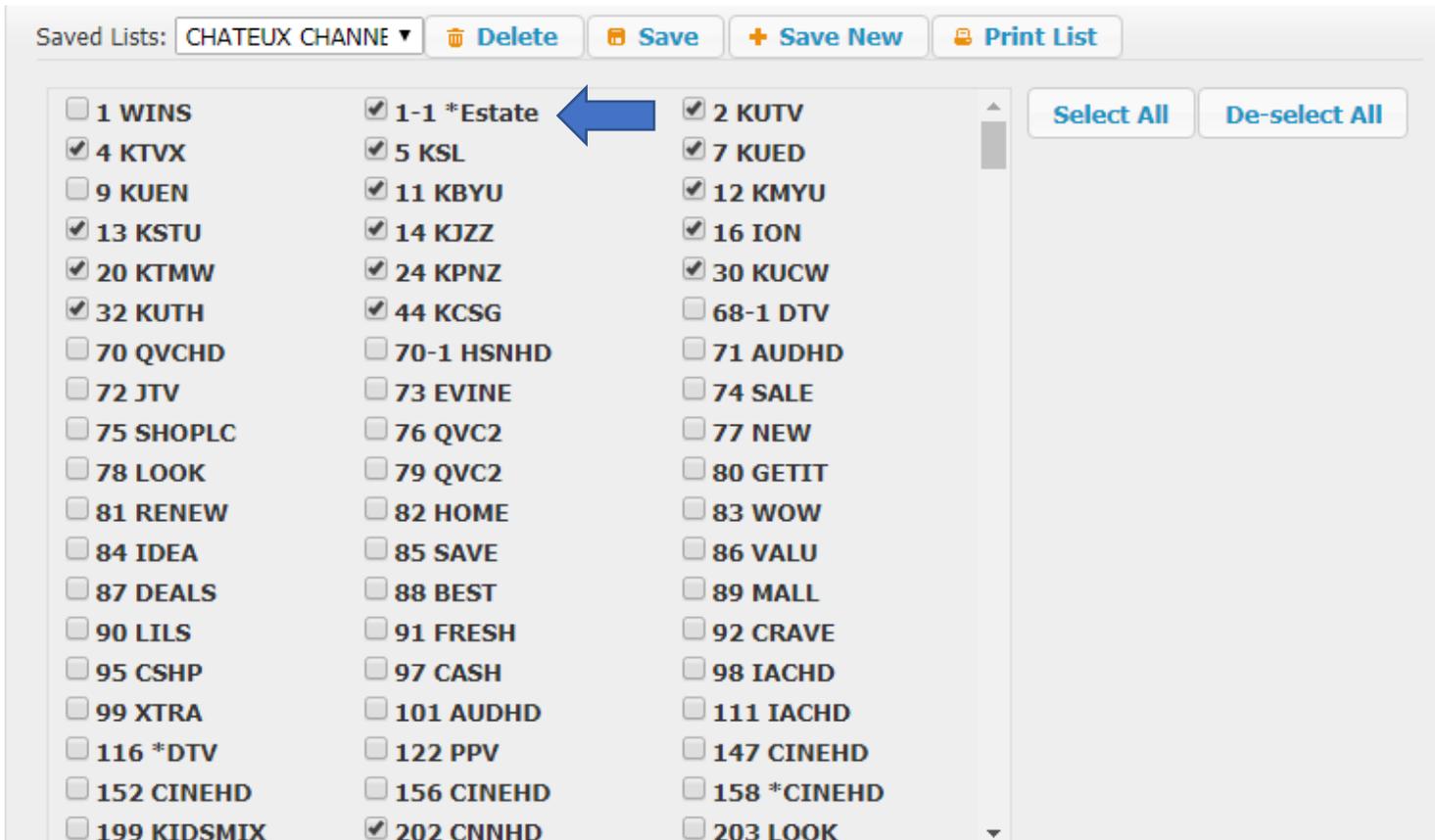
Room [PMS ID]	RID	IP	Signal	Version	Model	M	DS			Active
<input type="checkbox"/> All										255/255
<input type="checkbox"/> Unassigned										
<input type="checkbox"/> Chateaux										
<input type="checkbox"/> Residence club										

Auto-refresh if idle for 10 minutes Total Receiver Count: 255 

Version: 3.98 © DIRECTV 2010-2018

Adding the Channel to the Guide

- In order for a LCI channel to show up in the guide we will need to create a custom channel list from the home page of the MCS and send it out to the property.
- We will do this by clicking on the 2 little squares next to the Channel Lists title.



- When the channel list loads make sure that your LCI channel is present. After the channel has been created it takes a few minutes to appear in the channel list. If the channel is not present simply close the window and wait a minute then try again.
- You will need to work with the PM to establish which channels are part of the properties line up. Not only will you need to select the LCI channel that you created but you will also need to check every channel that is in the properties package. This can potentially be 250+ channels.
- Once you have the channels selected click the save button and you will be asked to name the channel list. Please name it something easy to understand for others that may need to work on the system.
- In this example the LCI channel is 1-1 but for our channel we would need to verify that channel 2501 was present.

Creating the Channel List

Commands Groups Defaults Channel Lists

Select Go Select Assign Select Apply Select Apply

Commands: Check-In Check-Out Reset Defaults Last :40 PM

Room [PMS ID] RID IP Signal Version Model M DS Active

Room [PMS ID]	RID	IP	Signal	Version	Model	M	DS	Active
<input checked="" type="checkbox"/> All						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	256/256
<input checked="" type="checkbox"/> Unassigned								
<input checked="" type="checkbox"/> Chateaux								
<input checked="" type="checkbox"/> Residence club								

Auto-refresh if idle for 10 minutes Total Receiver Count: 256

Sending out the Channel List

- Once you have created and saved the channel list we will need to send it out to the receivers.
- From the home page select the drop down window below Channel Lists and select the channel list you created that includes the LCI.
- In the receiver list select the receivers you wish to add the channel. If you want all receivers to have the channel check the box next to All.
- Once the desired receivers have been selected click the Apply button to the right of the Channel Lists drop down window.

Channel
Unavailable

Closing Bell

1:00p - 3:00p | No Rating

A guide through the most important hour of
the Wall Street trading day, a
close-up look at how the markets are moving



1:34p
Wed 8/14

Verify the LCI

- Once you have sent out the channel list allow for a few minutes for the receivers to download and reflect the changes. Once the receivers have taken the channel list only the channels that you selected should appear in the guide. You should also see your LCI channel and be able to tune to it.

Wed 8/14

1:30p

2:00p

355 CNBCHD < Closing Bell

356 MSNBC < MSNBC Live with... **HD** Deadline: White House

361 ACCUHD < Weather News & Forecasts

402 UN1eHD < Fútbol UEFA Súper Copa **HD**

404 GALAHD < Porque el amor ... **HD** El Chavo **HD** Paralelo 23 **HD**

2501 dtv < dtv

◀ - 12hrs ▶ + 12hrs