PRO DSX
Connecting
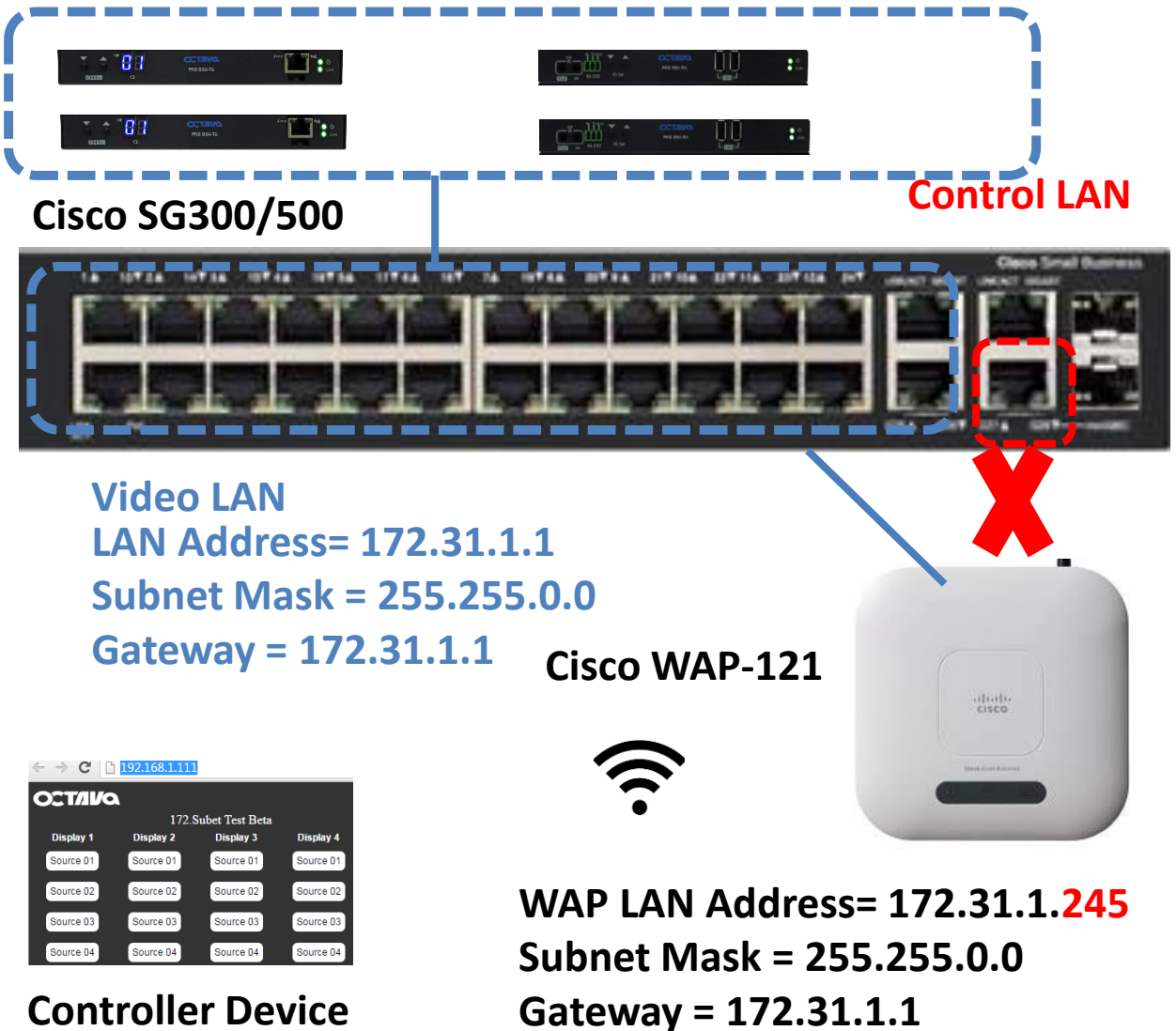## Connecting to Wireless Access point for 172.31 subnet

For PRO DSX units with the 6.3.1 firmware suite
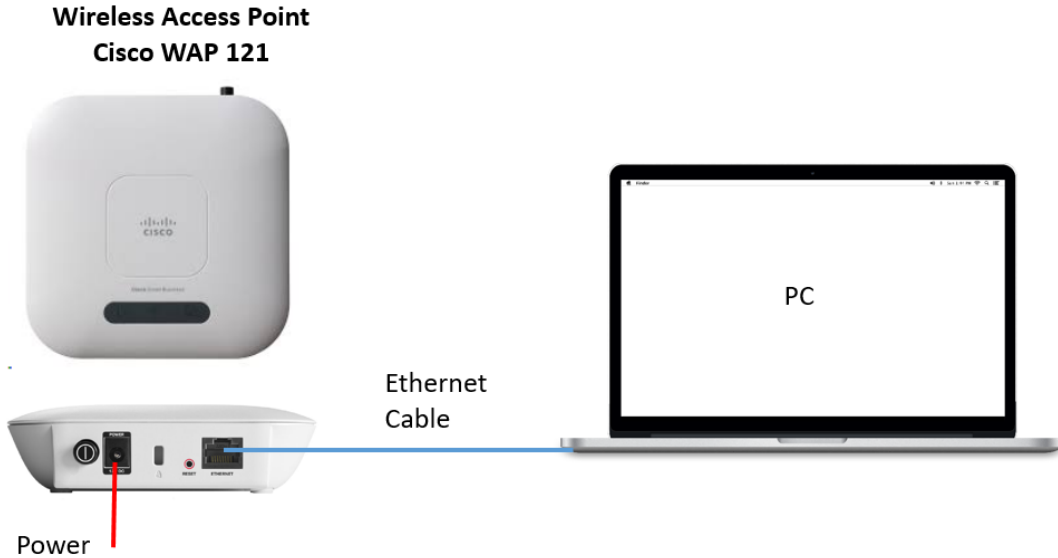
Date: 4-11-2017

System Diagram- Using Dedicated Wireless Access Point Requirements:

1. Pre-configured Cisco SG300/500 switch
2. All devices need to be set to the **172.31** subnet
3. Dedicated Wireless Access Point
4. Controller (iPad)

PRO DSX -TX 172.31.2.x   **PRO DSX -RX** 172.31.3.x

Control LAN

Cisco SG300/500

Video LAN
LAN Address= 172.31.1.1
Subnet Mask = 255.255.0.0
Gateway = 172.31.1.1

Cisco WAP-121

Controller Device

WAP LAN Address= 172.31.1.245
Subnet Mask = 255.255.0.0
Gateway = 172.31.1.1

1. Configuring the Cisco WAP 121

Wireless Access Point
**Cisco WAP 121**

PC

Ethernet
Cable

Power

Set your IP V4 settings of the Ethernet Connection

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: 192 . 168 . 1 . 51
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 1 . 1

○ Obtain DNS server address automatically
⦿ Use the following DNS server addresses:
Preferred DNS server: .   .   .
Alternate DNS server: .   .   .

☐ Validate settings upon exit   Advanced...

OK   Cancel

PC

IP address: 192.168.1. (3-253 range)
Subnet mask: 255.255.255.0
Default Gateway: 192.168.1.1

The Factory Default IP Address of the Ubiquiti Address is = 192.168.1.2
Do NOT set PC address 192.168.1.2

2. Wireless Access Point(WAP121) settings
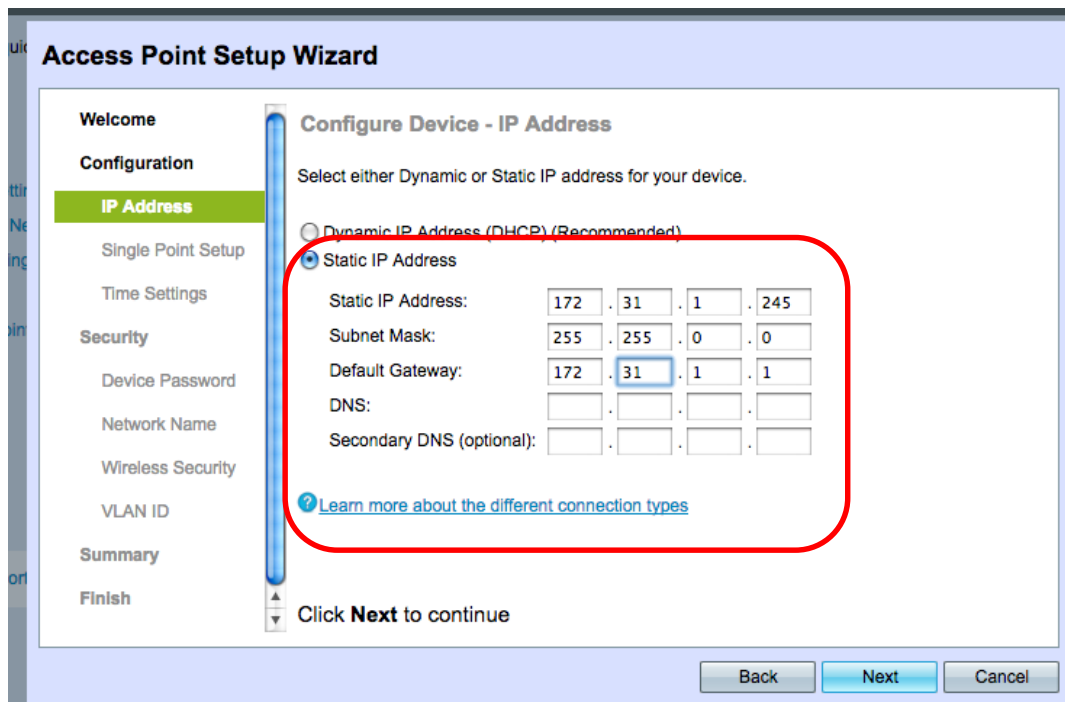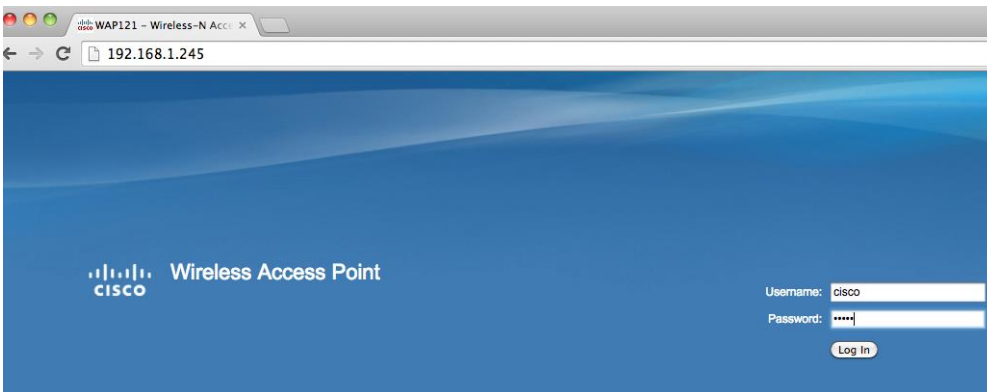
Assign STATIC IP address to the WAP
WAP LAN Address= 172.31.1.245
Subnet Mask = 255.255.0.0
Gateway = 172.31.1.1

Access Point Setup Wizard

Welcome	**Single Point Setup -- Set A Cluster**
Configuration	A cluster provides a single point of administration and lets you view, deploy, configure, and secure the wireless network as a single entity, rather than as a
✓ IP Address	devices.
Single Point Setup	○ Create a New Cluster
Time Settings	Recommended for a new deployment environment.
	New Cluster Name:
Security	AP Location:
Device Password	○ Join an Existing Cluster
Network Name	Recommended for adding new wireless access points to the environment.
Wireless Security	Existing Cluster Name:
	AP Location:
VLAN ID	⦿ Do not Enable Single Point Setup
Summary	Recommended for single device deployments or if you prefer to configure each device individually.
Finish	Click **Next** to continue

[Back] [Next] [Cancel]

Choose "DO not Enable Single Point Setup"

Access Point Setup Wizard

Welcome	**Enable Security - Set Password**
Configuration	The administrative password protects your access point fro reasons, you should change the access point password from this password down for future reference.
✓ IP Address	
✓ Single Point Setup	Enter a new device password:
✓ Time Settings	New password needs at least 8 characters composed of lo numbers/symbols by default.
Security	
Device Password	New Password: ●●●●●●
Network Name	Confirm Password: ●●●●●●
Wireless Security	Password Strength Meter: ▮▮▮▮ Below Minimum
VLAN ID	Password Complexity: ☑ Enable
Summary	❓ Learn more about passwords
Finish	Click **Next** to continue

[Back] [Next] [Cancel]

Update the administrative password and record it below

Cisco WAP121 Administrative Password =

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Access Point Setup Wizard

Welcome

Configuration

✔ IP Address

✔ Single Point Setup

✔ Time Settings

Security

✔ Device Password

Network Name

Wireless Security

VLAN ID

Summary

Finish

Enable Security - Name Your Wireless Network

The name of your wireless network, known as an SSID, identifies your network so that wireless devices can find it.

Enter a name for your wireless network:

Network Name (SSID): ciscosb

For example: MyNetwork

ⓘ Learn more about network names

Click **Next** to continue

Back   Next   Cancel

Update Network Name (SSID) and record it below:

WAP121 SSID Name:

Access Point Setup Wizard

Welcome

Configuration

✔ IP Address

✔ Single Point Setup

✔ Time Settings

Security

✔ Device Password

✔ Network Name

Wireless Security

VLAN ID

Summary

Finish

Enable Security - Secure Your Wireless Network

Select your network security strength.

○ Best Security (WPA2 Personal - AES)
   Recommended for new wireless computers and dev
   Older wireless devices might not support this option

○ Better Security (WPA Personal - TKIP/AES)
   Recommended for older wireless computers and de

◉ No Security (Not recommended)

Enter a security key with 8-63 characters.

▮▮▮▮   Below Minimum

☑ Show Key as Clear Text

ⓘ Learn more about your network security options

Click **Next** to continue

Back   Next   Cancel

Update Wireless Network Security Password and record it below:

WAP121 Wireless Security Password:

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Access Point Setup Wizard

Welcome

Configuration

✔ IP Address

✔ Single Point Setup

✔ Time Settings

Security

✔ Device Password

✔ Network Name

✔ Wireless Security

VLAN ID

Summary

Finish

Enable Security - Assign The VLAN ID For Your Wireless Network

By default, the VLAN ID assigned to the management interface for your access point is 1, which is also the default untagged VLAN ID. If the management VLAN ID is the same as the VLAN ID assigned to your wireless network, then the wireless clients associated with this specific wireless network can administer this device. If needed, an access control list (ACL) can be created to disable administration from wireless clients.

Enter a VLAN ID for your wireless network:

VLAN ID: 1   (Range: 1 - 4094)

❓Learn more about vlan ids

Click **Next** to continue

VLAN ID =1

Back   Next   Cancel

Access Point Setup Wizard

Welcome

Configuration

✔ IP Address

✔ Single Point Setup

✔ Time Settings

Security

✔ Device Password

✔ Network Name

✔ Wireless Security

✔ VLAN ID

Summary

Finish

Summary - Confirm Your Settings

Please review the following settings and ensure the data is correct.

Network Name (SSID):	ciscosb
Network Security Type:	plain-text
Security Key:	
VLAN ID:	1

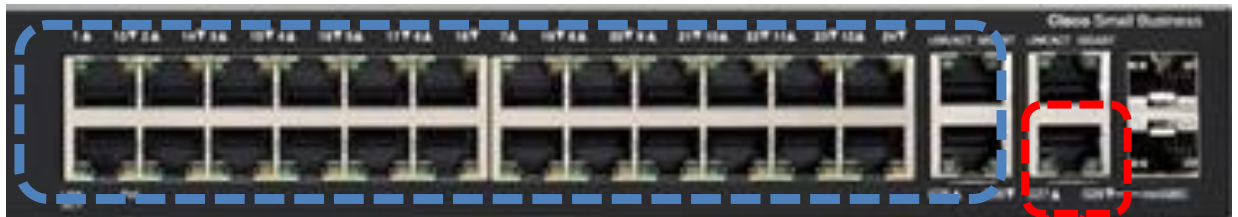Note: The AP Radio will be enabled after clicking Submit.

Click **Submit** to enable settings on your Cisco Small Business Access Point

Back   Submit   Cancel

SUBMIT. Done.

3. Connect the WAP121 to the pre-programmed Cisco SG 300/500 Switch "Video Lan" (labeled by your supplier)

Cisco SG300/500

Control LAN

Video LAN
LAN Address= 172.31.1.1
Subnet Mask = 255.255.0.0
Gateway = 172.31.1.1

Cisco WAP-121

WAP LAN Address= 172.31.1.245
Subnet Mask = 255.255.0.0
Gateway = 172.31.1.1

4. Connect your iPad to the WAP121 Wireless network
Set your controller device to Static mode.

For example for iPad, select the Wi-Fi and select Static

IP Address: choose 172.31.1.2 -172.31.1.244 . (each controller device need to have a unique ip address)

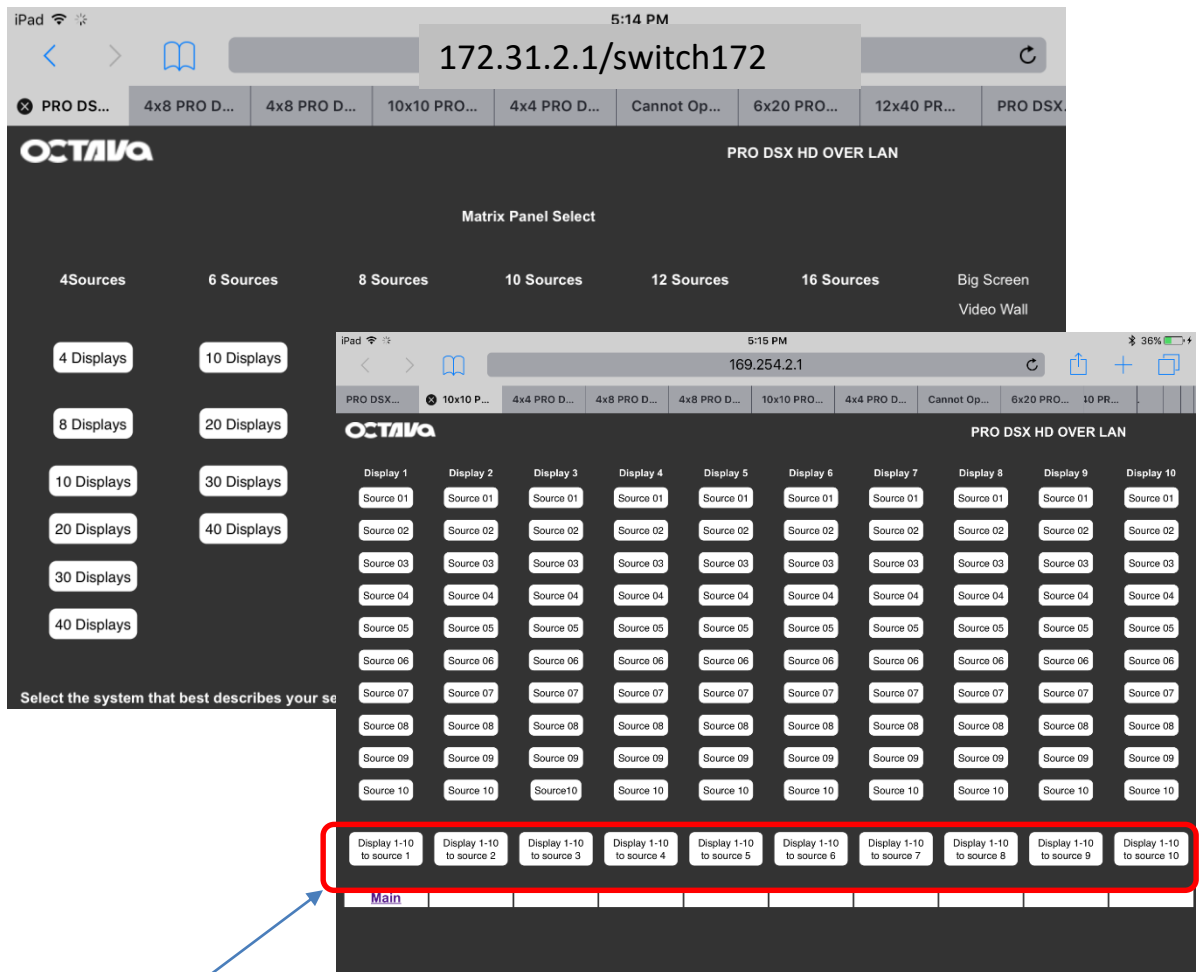**Subnet Mask:** 255.255.0.0

Gateway: 172.31.1.1

DNS : 172.31.1.1. (iPad requires you type in DNS)

Embedded Octava Web Controller (owc)

The PRO DSX features the Octava Web Controller (OWC) to easily switch devices

Access the General Octava Web Controller (OWC) on the TX 01 by entering:

172.31.2.1/switch172

Note:
1. Presets opens multiple devices and will require that you ENABLE "POP Ups" in the browser settings.
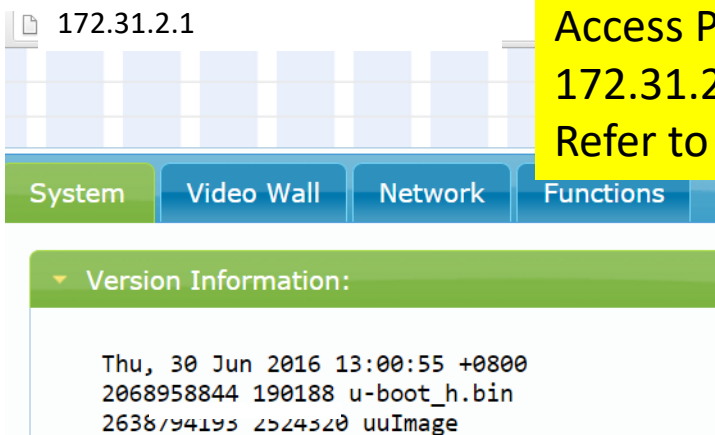
WEB Interface Access

The PRO DSX- TX and RX has various features that can be enabled and modified by directing accessing the TX or RX web interface.

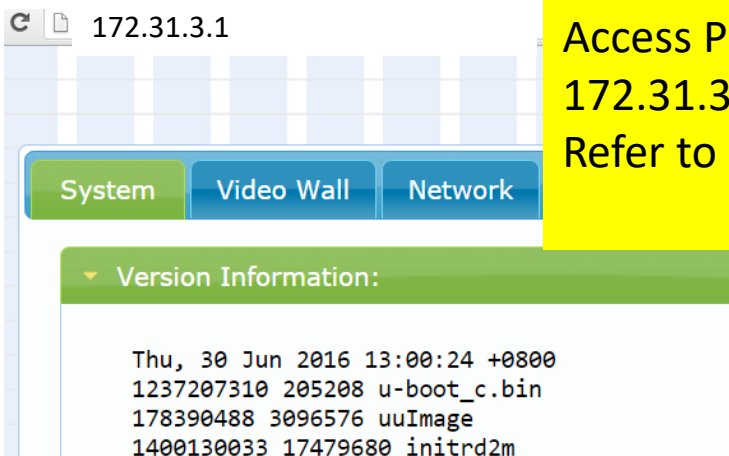The static IP address of the PRO DSX –TX and RX are indicated as shown by the LED as shown in section 6.

Example:

PRO DSX –TX ip address are : 172.31.2.xx (user set)

PRO DSX –RX ip address are : 172.31.xx (user set)

172.31.2.1

| System | Video Wall | Network | Functions |

Version Information:

```
Thu, 30 Jun 2016 13:00:55 +0800
2068958844 190188 u-boot_h.bin
2638794193 2524320 uuImage
```

Access PRO DSX-TX by entering: 172.31.2.xx
Refer to LED indicator.

172.31.3.1

| System | Video Wall | Network |

Version Information:

```
Thu, 30 Jun 2016 13:00:24 +0800
1237207310 205208 u-boot_c.bin
178390488 3096576 uuImage
1400130033 17479680 initrd2m
```

Access PRO DSX-RX by entering: 172.31.3.xx
Refer to LED indicator.