

ClearOne®

VIEW® Pro D310

High-definition, IP, Compressed Audio/Video Decoder

Quick-Start Guide



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VIEW PRO D310 QUICK-START GUIDE

THE VIEW PRO ENCODER AND DECODER

ClearOne's VIEW Pro D310 decoder delivers the ultimate in high-quality, low-latency, 4:2:0 YCbCr color space digital media at unrivaled cost advantage. Distribution of all digital media is via existing IP networks and infrastructure to single-image, full-screen video applications.

ClearOne StreamNet® technology embedded within VIEW Pro encoders and decoders also facilitates automatic discovery, control, monitoring and distribution within StreamNet networks.

The VIEW Pro D310 decoder takes the combined video and audio stream, usually provided from a VIEW Pro encoder, decodes it, and then sends the video and audio to a display such as a HDTV or projector and sound system.

The latest version of the VIEW CONSOLE software can be found on the ClearOne website at **http://www.clearone.com/resources#network_media_streaming**.

QUICK-START OVERVIEW

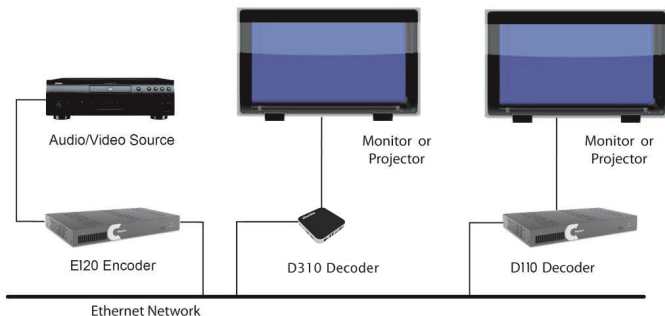
You will be performing these steps in the following order to use the VIEW Pro D310 Decoder in your StreamNet network:

1. Mounting the D310 Decoder (Optional)
2. Connecting the D310 Decoder
3. Configuring the D310 Decoder

VIEW PRO ENCODER & DECODER

ENCODER AND DECODERS IN A NETWORK

The VIEW Pro encoder receives input from an AV source device such as BluRay Player, DVD Player, etc. and distributes it over a StreamNet TCP/IP network using a standard 100 Mbit or Gbit Ethernet connection. The encoder provides the IP data for VIEW Pro decoders to deliver to the displays, therefore decoders are installed at the locations of the target video displays.



This picture shows an example for connecting VIEW Pro devices in a network.

VIEW PRO D310 QUICK-START GUIDE

PARTS INCLUDED

The following items are included with the VIEW Pro D310 Decoder:



- D310 Decoder Unit
- Power Supply
- Mounting Plate
(VESA, holes spaced 100 mm X 100 mm, 3.9 inches X 3.9 inches)
- Mounting Screws for Mounting Plate and D310 Unit
- USB to DB9 Serial Adapter

Verify that all items have been received. If there is any issue, please contact your ClearOne representative.

VIEW PRO ENCODER & DECODER

MOUNTING THE D310 DECODER

The D310 includes a Mounting Plate and screws. The Mounting Plate can be used on a wall or for applications where a decoder must be located on a VESA mount, such as on the back of a monitor.

Attach the Mounting Plate to a display with the 4 phillips-head screws. (Figure 1)

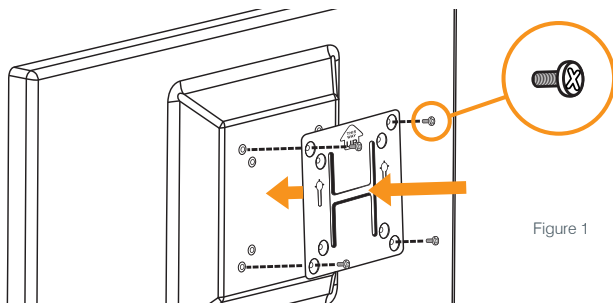


Figure 1

NOTE: Although the Mounting Plate does attach the decoder to the back of a display, it also allows the decoder to be attached to a separate VESA mount.

Insert the 2 screws with the extended heads into the back of the D310 and tighten. (Figure 2)

VIEW PRO D310 QUICK-START GUIDE

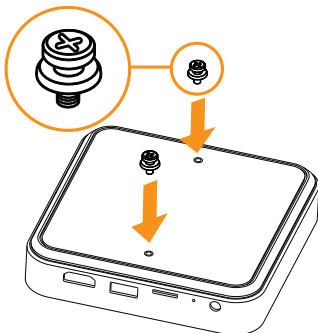


Figure 2

Align the D310 with the Mounting Plate so that indicator arrows on the plate and the decoder are pointed upward. Insert the heads of the extended screws on the D310 into the keyhole slots of the Mounting Plate and slide down to secure.

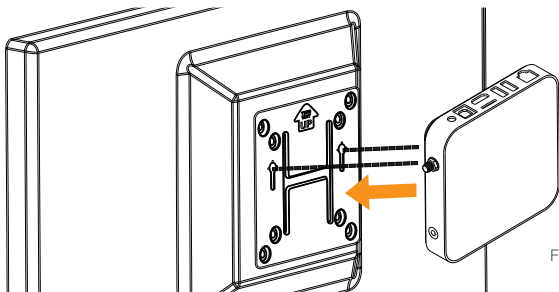


Figure 3

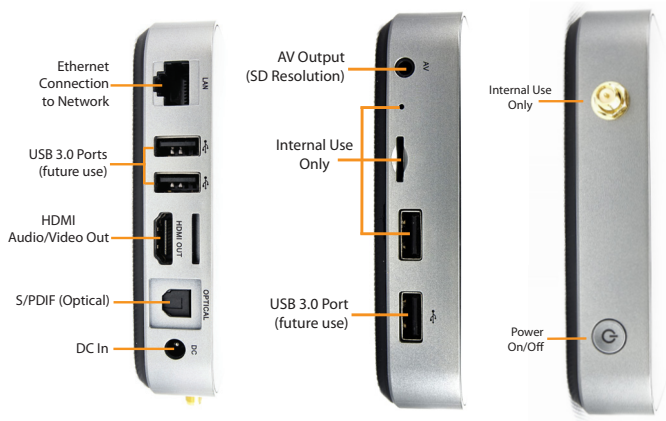
VIEW PRO ENCODER & DECODER

CONNECTING THE DECODER

Connect the D310 Decoder to:

- Ethernet LAN where the encoders and the computer running the VIEW CONSOLE program are connected
- HDMI Audio/Video output to the HDMI input on the display or projector
- USB 3.0 ports can be used by the USB to DB9 Serial Adapter allowing serial communication to/from the unit
- A provided DC power supply

NOTE: Carefully run the connected cables so they do not put strain on the connectors.



CONFIGURING THE DECODER

The VIEW Pro D310 Decoder is configured for use in the network with the VIEW CONSOLE program. VIEW CONSOLE is a PC-based program that allows you to configure devices so that they can communicate across a StreamNet network. Phases of the software setup include:

- Create a new or open an existing project
- Add the D310 device to the project
- Match the correct device from the right-hand column.
- Configuring the device with system-specific information regarding Display Outputs, Controls, IP.
- Saving the project
- Sending the configurations

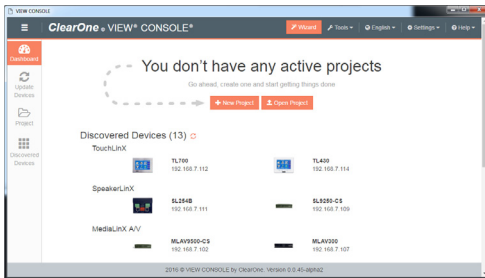
These steps in these processes are detailed in the VIEW CONSOLE user manual available for viewing or download at www.ClearOne.com.

NOTE: VIEW CONSOLE version 3.02.xx or later is required to support the D310 decoder.

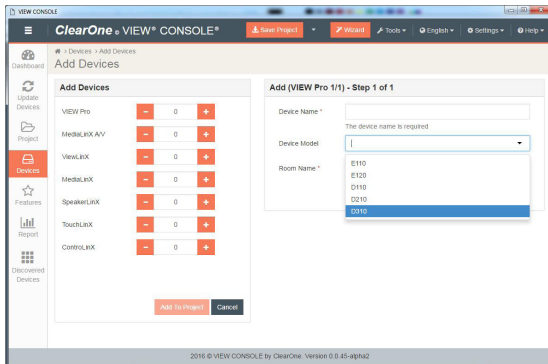
Information specific to the VIEW Pro Decoder is contained in the VIEW Pro - D310 Digital AV Decoder Installation and Users Manual available for viewing or download at www.clearone.com. (The steps for using the VIEW CONSOLE program and options for the D310 are similar to those of the D210 decoder).

VIEW PRO ENCODER & DECODER

Create a New or Open an Existing Project



Add the VIEW Pro D310 to the Project



VIEW PRO D310 QUICK-START GUIDE

Match the Correct Device from the Right-Hand Column

The screenshot displays the ClearOne VIEW Console web interface. The top navigation bar includes a menu icon, the title 'ClearOne VIEW CONSOLE', and buttons for 'Save Project', 'Wizard', 'Tools', 'English', 'Settings', and 'Help'. The left sidebar contains icons for 'Dashboard', 'Update Devices', 'Project', 'Devices' (highlighted), 'Features', 'Report', and 'Discovered Devices'. The main content area is titled 'Device Details' and shows a table with one device entry: 'D310 0.0.0.0'. The 'Actions' column for this device has a 'Match' button. Below the table, it states 'Number of Devices: 1'. On the right, the 'D310' configuration panel is shown with tabs for 'Information', 'Display Output', and 'Display Control'. The 'Information' tab is active, displaying fields for IP Address (0.0.0.0), Subnet Mask (0.0.0.0), Device Type (VIEW Pro), Device Model (D310), Firmware Version, Device Name (D310), and Serial Number. An 'Apply' button is at the bottom right of the configuration panel. The footer indicates '2016 © VIEW CONSOLE by ClearOne. Version 0.0.45-alpha2'.

VIEW CONSOLE

ClearOne VIEW CONSOLE

Save Project Wizard Tools English Settings Help

Dashboard > Devices > Device Details

Device Details

Send Configuration Import Devices Restart Devices

+ Add Devices Remove Search

St...	Device Name	Actions
	D310 0.0.0.0	Match

Number of Devices: 1

D310

Information Display Output Display Control

☐ Show Advanced Options

IP Address 0.0.0.0

Subnet Mask 0.0.0.0

Device Type VIEW Pro

Device Model D310

Firmware Version

Device Name * D310

Serial Number

Apply Cancel

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VIEW PRO ENCODER & DECODER

Configuring: Info Tab for D310

The screenshot displays the ClearOne VIEW PRO CONSOLE interface. The top navigation bar includes a menu icon, the title "ClearOne VIEW PRO CONSOLE", and buttons for "Save Project", "Wizard", "Tools", "English", "Settings", and "Help". The left sidebar contains icons for "Dashboard", "Update Devices", "Project", "Devices" (highlighted), "Features", "Report", and "Discovered Devices". The main content area is titled "Device Details" and shows a table with one device, "D310", with IP address "192.168.5.117". Below the table, it states "Number of Devices: 1". The right panel, titled "D310", has tabs for "Information", "Display Output", and "Display Control". The "Information" tab is active, showing fields for "Show Advanced Options" (unchecked), "IP Address" (192.168.5.117), "Subnet Mask" (255.255.255.0), "Device Type" (VIEW Pro), "Device Model" (D310), "Firmware Version" (3.1.077), "Device Name" (D310), and "Serial Number" (D310123456789000002F49). "Apply" and "Cancel" buttons are at the bottom right of the configuration panel. The footer indicates "2016 © VIEW CONSOLE by ClearOne Version 0.0.45-alpha2".

VIEW CONSOLE

ClearOne VIEW PRO CONSOLE

Save Project Wizard Tools English Settings Help

Dashboard > Devices > Device Details

Send Configuration Import Devices Restart Devices

+ Add Devices Remove Search

St...	Device Name	Actions
\$	D310 192.168.5.117	Send Config

Number of Devices: 1

D310

Information Display Output Display Control

☐ Show Advanced Options

IP Address 192.168.5.117

Subnet Mask 255.255.255.0

Device Type VIEW Pro

Device Model D310

Firmware Version 3.1.077

Device Name * D310

Serial Number D310123456789000002F49

Apply Cancel

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VIEW PRO D310 QUICK-START GUIDE

Configuring: Info Tab Advanced Options for D310

The screenshot shows the ClearOne VIEW Console interface. The top navigation bar includes 'Save Project', 'Wizard', 'Tools', 'English', 'Settings', and 'Help'. The left sidebar contains icons for Dashboard, Update Devices, Project, Devices (highlighted), Features, Report, and Discovered Devices. The main content area is titled 'Device Details' and shows a table with one device, 'D310' (IP: 192.168.5.117). Below the table, it states 'Number of Devices: 1'. The 'D310' configuration panel is open, showing the 'Show Advanced Options' tab. The settings are as follows:

Setting	Value
IP Address	192.168.5.117
Enable Static IP	☐ 0.0.0.0
Enable DHCP	☒
Do Not Log	☒
Enable Switch Latency (seconds)	☐ 1
Enable Video Rotation	☐ 90 degrees
Network Subnet Mask	255.255.0.0
Gateway IP	0.0.0.0
TTL	1
Network Latency (ms)	60

Any changes you make to the settings on this screen may seriously damage the system's ability to function properly.

Buttons: Apply, Cancel

Footer: 2016 © VIEW CONSOLE by ClearOne. Version 0.0.45-alpha2

VIEW PRO ENCODER & DECODER

Configuring: Display Outputs Tab for D310

The screenshot displays the ClearOne VIEW PRO CONSOLE interface. The top navigation bar includes a menu icon, the title "ClearOne VIEW PRO CONSOLE", and buttons for "Save Project", "Wizard", "Tools", "English", "Settings", and "Help". The left sidebar contains navigation options: Dashboard, Update Devices, Project, Devices (highlighted in orange), Features, Report, and Discovered Devices. The main content area is titled "Device Details" and shows a table with one device, "D310", with IP address "192.168.5.117". A "Send Config" button is next to the device name. Below the table, it states "Number of Devices: 1". On the right, the "D310" configuration panel is open, showing tabs for "Information", "Display Output" (selected), and "Display Control". The "Display Output" tab contains sections for "Decoder Settings" and "Audio Output". Under "Decoder Settings", there are fields for "Room/Zone Name" (D310), "Driver File" (CDTemplate.lua), "Lua Driver Config", "Baud Rate" (9600 Baud), "Parity" (None), "Port" (1), "Data Bits" (8), and "Stop Bits" (1). The "Audio Output" section has a checkbox for "Portland" and a note "1 tab: Portland Audio table". At the bottom right of the configuration panel are "Apply" and "Cancel" buttons. The footer of the interface reads "2016 © VIEW CONSOLE by ClearOne - Version 0.0.45-alpha2".

VIEW CONSOLE

ClearOne VIEW PRO CONSOLE

Save Project Wizard Tools English Settings Help

Dashboard

Update Devices

Project

Devices

Features

Report

Discovered Devices

> Devices > Device Details

Device Details

+ Add Devices Remove Search

St...	Device Name	Actions
\$	D310 192.168.5.117	Send Config

Number of Devices: 1

D310

Information Display Output Display Control

Decoder Settings

Display Output

Room/Zone Name D310

Driver File CDTemplate.lua

Lua Driver Config

Baud Rate 9600 Baud

Parity None

Port 1

Data Bits 8

Stop Bits 1

Audio Output

Portland 1 tab: Portland Audio table

Apply Cancel

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VIEW PRO D310 QUICK-START GUIDE

Configuring: Display Controls Tab for D310

The screenshot shows the ClearOne VIEW Console interface. The top navigation bar includes a menu icon, the title "ClearOne VIEW CONSOLE", and buttons for "Save Project", "Wizard", "Tools", "English", "Settings", and "Help". The left sidebar contains icons for "Dashboard", "Update Devices", "Project", "Devices" (highlighted in orange), "Features", "Report", and "Discovered Devices". The main content area is titled "Device Details" and shows a table with one device, "D310", with IP address "192.168.5.117". Below the table, it says "Number of Devices: 1". The "Display Controls" tab is selected, showing a table with 8 rows for configuring display controls. Each row has a "LABEL" field (a text input) and a "MACRO" field (a dropdown menu with "None" selected). At the bottom right of the table, there are "Apply" and "Cancel" buttons. The footer of the interface reads "2016 © VIEW CONSOLE by ClearOne. Version 0.0.45-alpha2".

VIEW CONSOLE

ClearOne VIEW CONSOLE

Save Project Wizard Tools English Settings Help

Dashboard > Devices > Device Details

Device Details

Send Configuration Import Devices Restart Devices

+ Add Devices Remove Search

St...	Device Name	Actions
1	D310 192.168.5.117	Send Config

Number of Devices: 1

Display Controls

These controls will be accessible from the GUI. The value put into the "Label" field will be used on the GUI button.

	LABEL	MACRO
1		None
2		None
3		None
4		None
5		None
6		None
7		None
8		None

Apply Cancel

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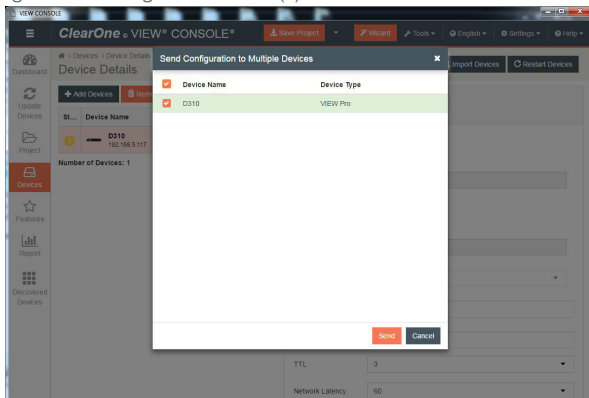
VIEW PRO ENCODER & DECODER

Saving the Project

Select **File>Save** to save the project.

Sending the Configurations

With the project still open to the changes you just made, select the **Send Configuration to Device** icon or, in the case of multiple devices, the **Send Configuration to Multiple Devices** icon. This will send the configuration setting to the device(s).



Wait for the device(s) to restart.

These steps in these processes are detailed in the VIEW CONSOLE manual available for viewing or download at www.ClearOne.com.

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the

measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

VIEW PRO D310 QUICK-START GUIDE

PART NUMBERS

910-0003-002	VIEW Pro Decoder D310
910-0003-001	VIEW Pro Decoder D210
910-0001-001	VIEW Pro Decoder D110
910-0000-001	VIEW Pro Encoder E120
910-0000-006	VIEW Pro Encoder E110

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