



Quick Start Guide for Cisco Digital Media Encoder 2200

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There are five requirements for setting up Cisco Digital Media Encoder 2200 for streaming or capturing video, as follows:

- AC power source (100~240v)
- Audio/Video source (camera, video player, or other A/V output device)
- IP network and/or Internet connection
- First Start setup
- A streaming media server for streaming your content to many viewers

Most of the basic operations you will routinely use are performed from the front panel of the encoder ([Figure 1](#)).

Figure 1 **Front Panel**



Note

There are advanced setup options of the encoder that you will need to modify before running an encoder session. You will use the *Niagara SCX® Web Interface* to access these options. Refer to the *User Guide for the Cisco Digital Media Encoder 2200* for detailed instructions.



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Connecting to an Electrical Power Source

Plug the power cable that was include with your encoder to this connector (Figure 2), and plug the opposite end into an AC power source or electrical wall outlet.

Figure 2 AC Power Connector for 100-240 Volts, AC, 50-60 Hz



Figure 3 shows the rear panel of the encoder. The Audio and Video Input section of the rear panel is used to connect your audio and video sources to the encoder.

Using the reference chart and images in Table 1, you can connect the appropriate device and power to the encoder.

Figure 3 Rear Panel

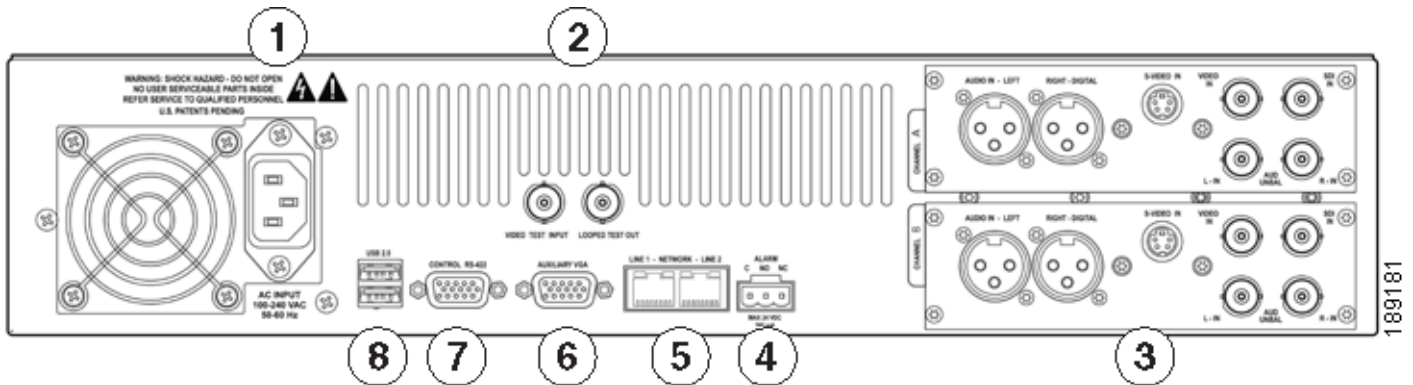
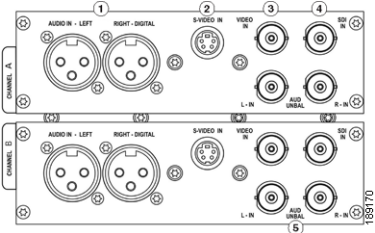


Table 1 Rear Panel Reference

Port	Description
1 AC Power Input	Provides system power.
2 Video Test Ports	BNC connector for composite video IN/OUT. Allows you to connect a video test signal, such as a color bar generator, to calibrate the video settings for video capture sessions.

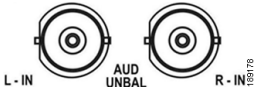
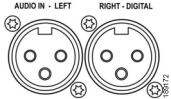
Table 1 Rear Panel Reference (continued)

3	<p>Channel A & B AV Inputs</p> 	<p>Each AV Input channel provides the following input ports:</p> <ol style="list-style-type: none"> 1. Left/Right XLR connector for balanced audio sources; right XLR connector for AES/EBU audio 2. Mini-DIN connector for S-Video sources 3. BNC connector for composite video sources 4. BNC connector for SDI Video Sources with embedded SDI audio 5. Left/Right BNC connectors for unbalanced audio sources
4	Alarm Relay Connector	Use this port to connect an external device (such as an audible bell or buzzer) so that, if the system fails, it will trigger an external audible sound.
5	Network Ports (Line 1 & 2)	Dual Ethernet ports provide redundant connections to your network.
6	Auxiliary VGA Connector	Use this port to connect an external VGA monitor so that you can view the Operating System Interface.
7	Control RS-422 Connector	(FUTURE) 9-pin D connector. Allows you to control the encoder via RS-422 protocols, providing integration into a broadcast studio master control center. This is a standard RS-422 port that can be used with deck control software.
8	USB 2.0 Connectors	Use these ports to connect USB control devices, such as a keyboard and mouse or USB memory devices.

Connecting Audio and Video Sources

Table 2 and Table 3 show the audio and video sources on the rear panel of the encoder.



Table 2 Audio Sources

Source	Description
<p data-bbox="342 476 641 508">Unbalanced Audio Input</p> 	<p data-bbox="716 476 1503 569">These BNC connectors with RCA adapters provide left and right stereo input. RCA connectors are a standard consumer stereo audio connection found on most video players and video cameras.</p>
<p data-bbox="342 722 609 753">Balanced Audio Input</p> 	<p data-bbox="716 722 1503 821">These XLR connectors provide left and right balanced stereo input. XLR connectors are used by professional audio engineers and are found on high-end audio and video playback equipment.</p> <p data-bbox="716 835 1503 894">The right XLR connector also provides for an AES/EBU audio connection.</p>

**Note**

A BNC-to-RCA adapter is included with your encoder. This will convert the Composite BNC connector to a common RCA connector found on most consumer video cameras and video players.

Table 3 **Video Sources**

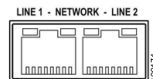
Source	Description
Composite BNC Input 	The encoder includes a BNC-to-RCA adapter so you can connect a composite RCA video cable to this BNC connector. Composite RCA connectors are found on most video playback equipment such as video players and video cameras. Composite BNC connectors are found on professional video playback equipment.
S-Video Input 	This is a standard consumer video connector found on most video players and video cameras.

Connecting to an IP Network

The encoder provides two network connections:

1. A primary network connection (LINE 1 in [Figure 4](#))
2. A secondary network connection (LINE 2 in [Figure 4](#))

These connectors are also referred to as output connectors because the encoder sends video and audio over an IP network, which these connections provide.

Figure 4 **RJ-45 Ethernet Connector****Note**

If you are not familiar with network protocols, please contact your network administrator for assistance.

The encoder network settings default to dynamically obtain an IP address from a DHCP server on the network.

If a DHCP server is not available or cannot be found on the network, then the encoder will assign its own IP address.

For most network environments, it will not be necessary to modify these default settings. However, if you wish to assign a static IP address to the encoder’s Network Interface Cards (NICs), then you can change the network setting by using the encoder front panel menu. For detailed instructions, please refer to the *User Guide for the Cisco Digital Media Encoder 2200*.

The mouse, keyboard, and VGA connections (Figure 5) are used only for service and maintenance by a qualified Cisco field technician.

Figure 5 **Maintenance Connector**



Note





Using a mouse, keyboard, and VGA monitor for operation is not recommended.

Completing First Start Setup

The first time the encoder is powered, the LCD display will present a series of menus that will assist in setting up time zone, system clock, date, and video input format (NTSC [North America/Japan] or PAL).

Table 4 lists and describes the buttons on the front panel of the encoder that you will use to complete the first start setup.

Table 4 **Front Panel Buttons**

Icon	Description
	Power button
	Enter button
	Up and down arrow keys
	Stream button

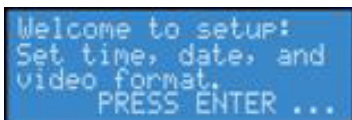
1. To start the encoder, press the **<POWER>** *button* located on the front panel.
2. During the power up process, the encoder LCD readout displays the following message:



```
ViewCast Corporation
Niagara 5.2.187.0
Serial: 655072117
Booting . . .
```

189175

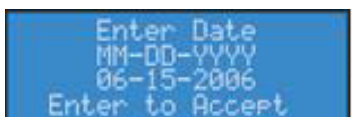
3. After the encoder powers up the first time, it displays the following message:



```
Welcome to setup!
Set time, date, and
video format.
PRESS ENTER ...
```

188228


4. Press the **<ENTER>** button to begin the initial setup.
5. The encoder then asks you to specify the date.



```
Enter Date
MM-DD-YYYY
06-15-2006
Enter to Accept
```

188230

6. To set the month and day, use the **<UP>** and **<DOWN>** arrow keys to increment the numerical value of the month.
7. Once you set the numerical value for the month, press the **<STREAM>** button to move to the day field.
8. Again, use the **<UP>** and **<DOWN>** arrow keys to increment the numerical value of the day.
9. Press **<STREAM>** to enter the value and move to the year field.
10. Use the same process for setting the month and day to set the year.
11. If you want to change a previous setting, you can continue pressing the **<STREAM>** button until the cursor cycles around to the month.
12. Once you are satisfied with your settings, you then press the **<ENTER>** button to accept the settings, and move to the next screen to set the system clock.
13. The encoder uses Military Time, which is a 24-hour clock format, for its system clock entries.



```
Enter Time
HH:MM
16:00
Enter to Accept
```

188233

14. Use the **<UP>**, **<DOWN>**, **<STREAM>**, and **<ENTER>** buttons to set the hour and minute of the system clock.
15. Once you are satisfied with your settings, press the **<ENTER>** button to accept the settings.
16. The last setting is the selection of the video input format that you will enter into the encoder.
17. You will see the following prompt message:



```
Select the video
format to use for
all encoders.
PRESS ENTER ...
```

188234

18. Press the <ENTER> button to continue.
19. Select your video source format from either NTSC or PAL.



20. Press the <ENTER> button to set the format, and the final screen will appear confirming that you have successfully set up your encoder.



21. Press the <ENTER> button to exit the setup menu and begin using your encoder.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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