

Cisco Digital Media Encoder 1000 Quick Start Guide

October 2007

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Safety Warnings

Before installing The Cisco Digital Media Encoder 1000™, read and comply with the following safety warnings to ensure that you do not damage the equipment or cause personal injury.

- WARNING:** Installation of the equipment must comply with local and national electrical codes.
- WARNING:** Read the installation instructions before connecting the system to the power source.
- WARNING:** Only trained and qualified personnel should be allowed to install, replace, or service this equipment.
- WARNING:** This product requires short-circuit (overcurrent) protection, to be provided as part of the building installation. Install only in accordance with national and local wiring regulations.
- WARNING:** The power supply must be placed indoors.
- WARNING:** The plug-socket combination must be accessible at all times, because it serves as the main disconnecting device.
- WARNING:** Do not work on the system or connect or disconnect cables during periods of lightning activity.
- WARNING:** To avoid electric shock, do not connect safety extra-low voltage (SELV) circuits to telephone-network voltage (TNV) circuits. LAN ports contain SELV circuits, and WAN ports contain TNV circuits. Some LAN and WAN ports both use RJ-45 connectors. Use caution when connecting cables.

1. Connecting to an Electrical Power Source

Your network must meet the following four requirements to set up the Cisco Digital Media Encoder 1000™ for streaming or capturing video:

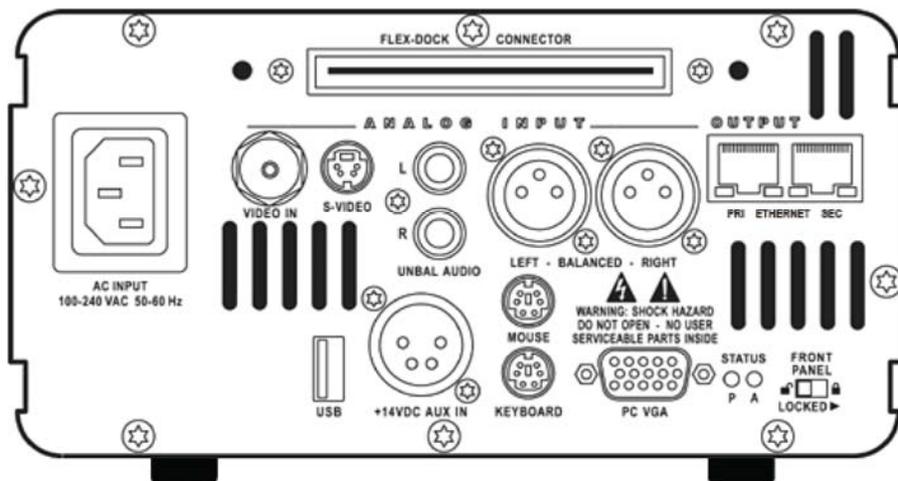
- AC power source (100~240v)
- Audio/Video source (camera, video player, or other A/V output device)
- IP network and/or Internet connection
- Streaming media server for streaming your content to many viewers

Most of the basic operations you will routinely use are performed from the front panel of the encoder system.

NOTE: There are advanced setup options of the encoder you must modify before running an encoder session. You will use the *Niagara SCX Web Interface* to access these options. Refer to *The Cisco Digital Media Encoder 1000 User Guide* for detailed instructions.

 <p>AC INPUT 100-240 VAC 50-60 Hz</p>	<p>AC Power connector for 100-240 volts, AC, 50-60 Hz Insert the power cable included with your encoder to this connector and insert the opposite end into an AC power source or electrical wall outlet.</p>
 <p>+14VDC AUX IN</p>	<p>DC Power connector for 14 volts DC Use this connector to connect a 14-volt battery to the encoder. The encoder is compatible with Anton Bauer® digital dionic batteries.</p>

Rear Panel



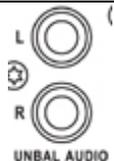
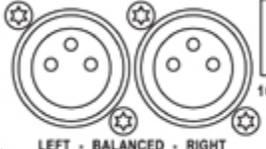
2. Connecting to Audio and Video Sources

Table 1 and Table 2 show the audio and video sources on the rear panel of the encoder.

Table 1. Video Sources

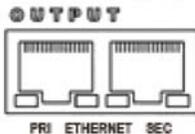
	<p>Composite BNC input The encoder includes a BNC-to-RCA adapter so you can connect a composite RCA video cable to this BNC connector. Composite RCA connectors are found on most video playback equipment such as video players and video cameras. Composite BNC connectors are found on professional video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

Table 2. Audio Sources

	<p>Unbalanced Audio input These RCA connectors 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>Balanced Audio input 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>

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.

3. Connecting to an IP Network

	<p>RJ-45 Ethernet connector The encoder provides two network connections: a 1GB and a 100MB Ethernet network connection. These connectors are also referred to as output connectors because the encoder sends video and audio over an IP network which these connections provide.</p>
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NOTE: If you are not familiar with network protocols, please contact your network administrator for assistance.

The encoder network settings for both its 1GB and 100MB network interface 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, the encoder assigns its own IP address.

For most network environments, it is not necessary to modify these default settings. However, if you wish to assign a static IP address to the encoder's Network Interface Cards (NICs), you can change the network setting using the encoder front panel menu. For detailed instructions, refer to the *Cisco Digital Media Encoder 1000 User Guide*.

<p>Maintenance Connectors</p>	
	<p>The mouse, keyboard, and VGA connections are only used for service and maintenance by a qualified ViewCast field technician. Note: Using a mouse, keyboard and VGA monitor for operation is not recommended. Third-party software installation or hardware modifications will void warranty.</p>
<p>Lock Switch - NOTE: The encoder will not power on if the Lock Switch is in the "LOCKED" position.</p>	
	<p>Lock Switch If the encoder is powered on, the front panel buttons are inactive when the Lock Switch is in the "locked" position. If the encoder is off, the front panel Power button is deactivated if the Lock Switch is in the "locked" position. This prevents the encoder from inadvertently being powered on if connected to a battery during transport.</p>

4. Initially Starting the Cisco Digital Media Encoder 1000

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

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 2.0.0.45
Serial: G55072117
Booting ...
```

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

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

4. Press <ENTER> to begin the initial setup.



5. The encoder now asks you to set the date.

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

6. To set the date, use the <UP> and <DOWN> arrows to increment the numerical value of the month.



7. Once you set the numerical value for the month, press <STREAM> to move to the day field.



8. Use the <UP> and <DOWN> arrows 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 so that you may set the year.

11. If you want to change a previous setting, you can continue pressing <STREAM> until the cursor cycles around to the month.



12. Once you are satisfied with your settings, press <ENTER> to accept the settings and move to the next screen to set the system clock.



13. The encoder uses Military Time (24-hour clock format) for its system clock entries.

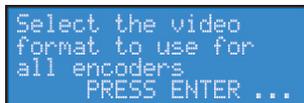


14. Use <UP>, <DOWN>, <STREAM>, and <ENTER> to set the hour and minute of the system clock.



15. The last setting is the selection of the video input format that you enter into the encoder.

You will see the following prompt message.



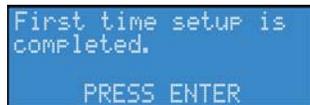
16. Press <ENTER> to continue.



17. Select your video source format from either NTSC or PAL.



18. Press <ENTER> to set the format; the final screen appears confirming you have successfully set up your encoder.



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



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