

Codian IP VCR

IP VCR 2200 Series

Getting Started



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Table of contents

General information	1
About the IP Video Conferencing Recorder (IP VCR)	1
Package contents	1
Port and LED location	1
LED behavior	2
Connecting the IP VCR	4
Before you start	4
Step one: Connect power	4
Step two: Connect to Ethernet Port A	4
Initial configuration	5
Step one: Connect to the console port	5
Step two: Configure Ethernet Port A settings	5
Step three: Assign an IP address to the IP VCR (optional)	6
Step four: Discover the IP address of the IP VCR	6
Configuring the IP VCR	7
Step one: Log in to the IP VCR	7
Step two: Using an H.323 gatekeeper or SIP registrar (optional)	7
Step three: Add endpoints (optional)	8
Using the IP VCR	9
Checking for updates	10
Troubleshooting and technical support information	11
Using the event log to help solve a problem	11
Further information	11
Contacting technical support	11
Operating guidelines	12
Safety warnings	12



General information

About the IP Video Conferencing Recorder (IP VCR)

The IP VCR 2200 series uses the latest purpose built technology to record video and data from standard video conferencing equipment. The recordings can be streamed live or played back on demand at multiple bit rates to a PC or any video conferencing endpoint.

Package contents

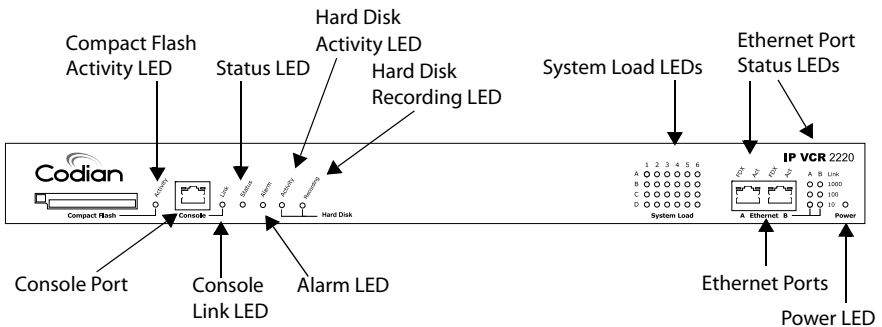
The following items are included with the IP VCR. Verify that you have these items before installing the device:

- ▶ Codian IP VCR device
- ▶ Console cable (blue)
- ▶ Power cable
- ▶ Rack mounting kit

Port and LED location

Figure 1 shows the position of ports and LEDs on the IP VCR.

Figure 1: IP VCR front panel



LED behavior

Table 1 describes the behavior of the LEDs.

Table 1: IP VCR LED behavior

LED	Color	Indicates
Compact Flash Activity	Flashing green	One of: <ul style="list-style-type: none">▶ the IP VCR is booting▶ a configuration change has been made▶ the configuration is being transferred by FTP
Console Link	Green	A PC is connected to the console port
Status	Green	The IP VCR is operating normally
Alarm	Red	The IP VCR is booting or has developed a fault, for example: <ul style="list-style-type: none">▶ temperature is outside normal limits▶ fan failure▶ battery failure of the internal clock Refer to the web interface for more information about the problem (go to Status > Health)
Hard Disk Activity	Flashing green	The IP VCR is reading from or writing to its hard disk
Hard Disk Recording	Red	The IP VCR is recording

Table 1: IP VCR LED behavior (continued)

LED	Color	Indicates
System Load	Green	The IP VCR is processing conference data. The LEDs represent the media processing load of the IP VCR. The column numbered 1 represents audio load. The other columns represent video DSP load. Media processing load is also displayed in the web interface: go to Status > General
Ethernet Port Status, for each Ethernet port:		
FDX	Green	The link has been negotiated as a full-duplex link
Act	Green	Packets are being transmitted on this port
Link	Green	The speed of the link from this port, which is either 10, 100, or 1000 Mbps
Power	Blue	The IP VCR is receiving power

Connecting the IP VCR

Before you start



Before installing the IP VCR, refer to the operating guidelines and safety warnings on page 12.

Step one: Connect power

Connect the power connector on the rear of the unit to the power supply using the supplied power cable. (There is no On/Off switch.)

Step two: Connect to Ethernet Port A

Connect an Ethernet cable from Ethernet Port A to an Ethernet switch (rather than a hub, to minimize interference from other devices on the network). The Ethernet port is a 10/100/1000 Mbps auto-sensing connection.



Only connect to Ethernet Port B if you need to connect the IP VCR to a second subnet.



Do not connect Ethernet Port A and Ethernet Port B to the same subnet.

Initial configuration

Step one: Connect to the console port

- 1 Ensure power is connected to the IP VCR and the Status LED is green.
- 2 Connect the console port of the IP VCR to the serial port of your PC using the blue RJ45 to DB9 cable supplied.
- 3 Use a serial terminal program, such as HyperTerminal, to connect to the IP VCR. Set your terminal software to the following settings:
 - Baud rate: 38400
 - Data bits: 8
 - Parity: none
 - Stop bits: 1
 - Flow control: none
- 4 Press Enter and the following command prompt appears on the terminal:
IPVCR:>

Step two: Configure Ethernet Port A settings

The default setting for the IP VCR Ethernet ports is auto-sensing mode. If the switch ports to which you connect the IP VCR are not also set to auto-sensing mode, then you need to configure the IP VCR Ethernet ports to use the same speed and duplex mode.



Only connect to Ethernet Port B if you need to connect the IP VCR to a second subnet.



Both ends of the Ethernet connection must be configured in the same way. For example, either configure both ends of the link to be auto-sensing or configure both ends to operate at the same speed and duplex.



To establish a 1000Mbps connection, both ends of the link must be configured as auto-sensing.

-
- 1 To configure Ethernet Port A, enter the following for auto-sensing mode:
etherstype auto
or to configure a speed and duplex, use the following command:
etherstype <10|100> <half|full>
 - 2 To display the current configuration and status of the Ethernet ports, enter:
status

For example, to configure a full-duplex 100Mbps link, enter:

etherstype 100 full



To establish a 1000Mbps connection, both ends of the link must be configured as auto-sensing.

Step three: Assign an IP address to the IP VCR (optional)

The default setting for the IP VCR is to use DHCP to obtain an IP address. You can assign a static IP address if you prefer or if a DHCP server is not available.

If you want the IP address of the IP VCR to be assigned by your DHCP server, do not complete this step.

- ▶ To assign a static IP address, use the following command:
**static <IP address> <netmask> <default gateway address>
<DNS server address>**



If you do not have a DNS server, you must use the IP address of your default gateway in place of the DNS server IP address.

For example, to assign an address of 192.168.1.2 where the default gateway is at 192.168.1.1, enter:

static 192.168.1.2 255.255.255.0 192.168.1.1 192.168.1.1

- ▶ To return to using DHCP after setting a static address, use the following command:
dhcp

Step four: Discover the IP address of the IP VCR

- 1 To display the current status of the IP address, enter: **status**
If you have DHCP enabled on your network and you are allowing the IP VCR to acquire its address using DHCP, the IP address that has been acquired by Ethernet Port A will be shown; if you have assigned a static IP address, that is the address that will be shown.
- 2 Make a note of the IP address. You will use this to access the web interface of the unit.

Configuring the IP VCR

Step one: Log in to the IP VCR

All administration of the IP VCR is performed via the web interface.

To log in to the web interface of the IP VCR:

- 1 Use your browser to navigate to the IP address of the IP VCR (to discover the IP address, refer to the previous section).
- 2 Click **Click here to log in**, and then click **Change log in** and enter the user name **admin** with no password.



Codian recommends that you change the admin account to use a password as soon as possible. To do that, go to **Users**, click the **admin** link, and provide the required user information.

Step two: Using an H.323 gatekeeper or SIP registrar (optional)

Using an H.323 gatekeeper makes it easier for H.323 end-users to watch and make recordings using directory numbers rather than requiring them to know the IP address or host name of the IP VCR. Likewise, a SIP registrar makes it easier for SIP users to watch and make recordings.

To configure the IP VCR to use an H.323 gatekeeper:

- 1 In the web interface of the IP VCR, go to **Settings > Gatekeeper**.
- 2 Enable **H.323 gatekeeper usage** and configure the settings you require, using the online help for further assistance.
- 3 Click **Apply changes**.

To configure the IP VCR to use a SIP registrar:

- 1 In the web interface, go to **Settings > SIP**.
- 2 Configure the settings you require, using the online help for further assistance.
- 3 Click **Apply changes**.



Before you configure the IP VCR to use, and register recordings to, a SIP registrar, you must set up the IP VCR and its recordings on that SIP registrar.

Step three: Add endpoints (optional)

You can define pre-configured endpoints. This means that when an end-user calls in to the IP VCR from an endpoint to watch a recording, the IP VCR will use the correct settings for that endpoint. It also means that when calling out to endpoints from the IP VCR, you choose the pre-configured endpoints from a list, rather than entering endpoint details every time.

To define pre-configured endpoints:

- 1 In the web interface of the MCU, go to **Endpoints**:
 - To add a H.323 endpoint, click **Add H.323**
 - To add a SIP endpoint, click **Add SIP**
- 2 Configure the endpoint settings you require, using the online help for further assistance.
- 3 Click **Add endpoint**.

Using the IP VCR

There are a number of ways to create a recording:

- ▶ Call in to the IP VCR's auto attendant and select **Record this session** to record yourself
- ▶ Call out and record. The IP VCR, via its web interface, calls out to an H.323 or SIP endpoint and records its media streams
- ▶ Call in to the IP VCR after it has been configured to record incoming calls by default. The setting for the default incoming call action is in **Settings > Connections**
- ▶ Call a specific gatekeeper ID or registered SIP extension that has been configured to trigger recording
- ▶ Call another endpoint through the IP VCR (a point-to-point call) via a prefix the IP VCR has registered with a gatekeeper or with a SIP registrar. This has the same effect as calling that endpoint directly, except that the IP VCR is also in the call and records both endpoints' media streams

Equally there are a number of ways to play back a recording:

- ▶ Call out and play. The IP VCR, via its web interface, calls out to a H.323 or SIP endpoint and plays back a recording to it
- ▶ Stream the recording to a user's desktop via a player application such as QuickTime
- ▶ Call in to the IP VCR's auto attendant and select the recording for play back
- ▶ Register the recording with a gatekeeper or SIP registrar and play it back by calling its registered gatekeeper ID or SIP extension

For further information about creating and viewing recordings, refer to the online help which is accessible from the IP VCR web interface and to the documentation available in the support area of the Codian web site.

Checking for updates

It is a good idea to regularly check for updates to the main IP VCR software image.

To check for, and download, updates:

- 1 Log in to the IP VCR web interface and go to **Status > General**.
- 2 Make a note of the software version that is currently installed.
- 3 Go to the support section of www.codian.com and check if a more recent release is available for the IP VCR.
- 4 If a more recent release is available, download it and save it locally.

To upgrade the IP VCR:

- 1 Unzip the software release file that you downloaded.
- 2 In the IP VCR web interface, go to **Settings > Upgrade**.
- 3 In the **Main software image** section, click **Browse** and locate the unzipped file.
- 4 Click **Upload software image**. The browser begins uploading the file to the IP VCR, and a new browser window opens to indicate the progress of the upload.
When finished, the browser window refreshes and indicates that the software upgrade is complete.
- 5 Go to **Settings > Shutdown** and shut down and restart the IP VCR.

Troubleshooting and technical support information

Using the event log to help solve a problem

Unless you are experiencing a problem, all event logging sources should be set to the default, which is **Errors, warnings and information**. For more information about configuring the event log, refer to the online help accessible from the web interface.

You can use the event log to produce debugging information to assist Codian technical support in solving your problem. However, Codian recommends that you only alter the setting of the event log under the guidance of Codian technical support. In particular, you should not turn on event logging sources without good cause or advice from Codian technical support.

Further information

Technical FAQs are available in the support area of the Codian web site. Refer to these for troubleshooting information.

Contacting technical support

If you need to contact Codian technical support, send an email detailing the problem to:

support@codian.com

Include the following information in the email:

- ▶ the serial number and product model number (for example: IP VCR 2220) of the IP VCR
- ▶ the software build number (to find this, in the web interface, go to **Status > General**)
- ▶ where you purchased the IP VCR
- ▶ your contact telephone number

Operating guidelines

- ▶ The unit is for indoor use only.
- ▶ The unit should be used within the following conditions:
 - Operating Environment: 0 to 35° C and 10% to 95% humidity (non-condensing)
 - Non-operating Environment: -10 to 60° C
 - Electrical Rating: 100-240 VAC 50 to 60 Hz
- ▶ Ventilation holes to be kept clear of all obstructions
- ▶ The unit to be kept in a dry and clean environment
- ▶ Risk of electrical shock if opened. Never operate with cover removed
- ▶ No user serviceable parts
- ▶ Only trained and qualified personnel should install or replace this equipment
- ▶ Rack-mount using provided ears and screws. Note: weight of unit is 4 kg

Safety warnings

- ▶ Only trained and qualified personnel should be allowed to install or replace this equipment
- ▶ Read the installation instructions before you connect the system to its power source
- ▶ Caution: Risk of explosion if internal battery is replaced by an incorrect type
Dispose of used batteries according to local regulations
- ▶ Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available
- ▶ The plug-socket combination must be accessible at all times because it serves as the main disconnecting device
- ▶ Ultimate disposal of this product should be handled according to all national laws and regulations
- ▶ Unplug the power cord before working on this system, since it does not have an On/Off switch

- ▶ Do not operate the unit with the cover removed. Operating the unit without the cover in place will invalidate the safety approvals and pose a risk of fire and electrical hazards
- ▶ Before working on equipment that is connected to power lines, remove jewelry (including rings, necklaces, and watches). Metal objects will heat up when connected to power and ground and can cause serious burns or weld the metal object to the terminals
- ▶ Do not work on the system or connect or disconnect cables during periods of lightning activity
- ▶ 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
- ▶ This equipment is to be installed and maintained by service personnel only as defined by AS/NZS 3260 Clause 1.2.14.3 Service Personnel
- ▶ To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:
 - This unit should be mounted at the bottom of the rack if it is the only unit in the rack
 - When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack
 - If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack



