

Codian IP VCR

IP VCR 2200 Series

Getting started

TANDBERG

Codian IP VCR

IP VCR 2200 Series

Getting started

Copyright © Codian 2008. All rights reserved. This Getting Started Guide may not be copied, photocopied, translated, reproduced, or converted into any electronic or machine-readable form in whole or in part without prior written approval of Codian Limited.

Codian Limited reserves the right to revise this documentation and to make changes in content from time to time without obligation on the part of Codian Limited to provide notification of such revision or change.

Codian Limited provides this documentation without warranty, term, or condition of any kind, either implied or expressed, including, but not limited to, the implied warranties, terms or conditions of merchantability, satisfactory quality, and fitness for a particular purpose. Codian Limited may make improvements or changes to the product(s) and/or the program(s) described in this documentation at any time.

All other product and company names herein may be trademarks of their respective owners.

61-0003-05 rev 01

TANDBERG

Philip Pedersens vei 20

1366 Lysaker

Norway

Telephone: +47 67 125 125

Telefax: +47 67 125 234

Video: +47 67 117 777

E-mail: tandberg@tandberg.com

www.tandberg.com

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
 - Getting more help 11
- Technical specifications 12
- Antistatic precautions 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 either be streamed live or played back on demand at multiple bit rates to a PC or any video conferencing endpoint.

Package contents

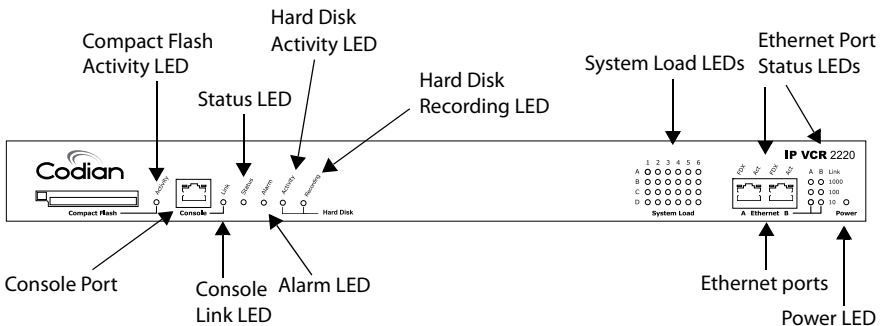
The following items are included with the IP VCR. Verify that you have these items before installing the device:

- ▶ 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



IMPORTANT: Before installing the IP VCR, you must read the safety information at <http://www.codian.com/safety.htm>

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 SecureCRT or 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.

-
- ▶ 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>
 - ▶ 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, omit 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, use 0.0.0.0 as 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 0.0.0.0
```

- ▶ 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 IP VCR, 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 on the web site.

Checking for updates

It is a good idea to regularly check for updates to the main IP VCR software image. This section describes how to upgrade the IP VCR using the web. Note that you can also upgrade the IP VCR using FTP; this can be more reliable if you are upgrading the device remotely. Upgrading your device via FTP is described in the release notes that are available alongside the software images in the support section of the web site.

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 the web site 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 technical support in solving your problem. However, we recommend that you only alter the setting of the event log under the guidance of technical support. In particular, you should not turn on event logging sources without good cause or advice from technical support.

Getting more help

If the documentation does not answer your question or you have a problem with one of our products:

- 1 Refer to the Technical FAQ section of the web site. We keep the Technical FAQ section up to date with the latest information from our technical support team regarding the resolution of customer issues.
- 2 Contact your reseller. Our resellers have a wealth of experience with our products and this is often a quick way of solving a problem.
- 3 If your query remains unsolved, there is a web form in the Support area of the web site that you can complete. Ensure that you provide all the details requested by the form to assist the technical support team in resolving your problem:
 - the serial number and product model number (for example: IP VCR 2220) of the unit
 - the software build number (to find this, in the web interface, go to **Status > General**)
 - where you purchased the unit
 - your contact email address or telephone number

Technical specifications

Power requirements

Table 2: IP VCR ratings

Rating	Value
Nominal voltage	115V to 230V 50/60 Hz
Current rating	2A Maximum
Supply voltage range	100 to 240V 50/60 Hz

Over-current protection

Ensure the supply to this unit is protected by a branch circuit protector rated by a maximum of 20A.



Caution — over-current devices must meet applicable national and local electrical safety codes and be approved for the intended application.

Operating environment

The IP VCR must only be used within the following environmental conditions:

Table 3: Operating environment

Environment	Temperature	Humidity
Operating environment	0°C to 35°C	10% to 95% (non-condensing)
Non-operating environment	-10°C to 60°C	10% to 95% (non-condensing)
Optimum operating environment	21°C to 23°C	45% to 50% (non condensing)

Antistatic precautions

When servicing or removing components or connections, first attach an antistatic wrist strap to an appropriate Earth point.

