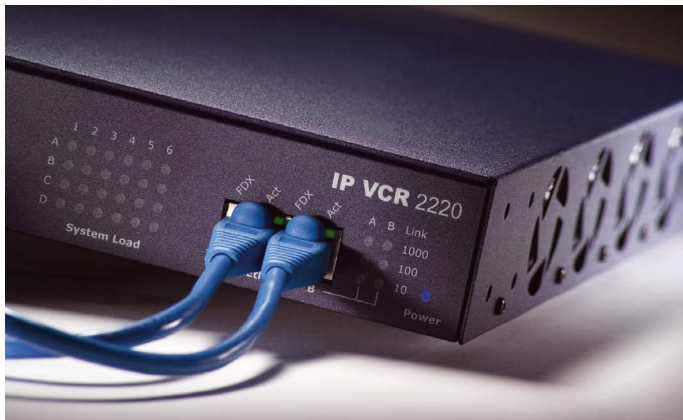


# Codian IP VCR 2200 Series

## Video Conference Recorder and Streaming Server



### Live Streaming and Video on Demand

The Codian IP VCR 2200 series is a unique digital recorder specifically designed for video conferencing, enabling you to preserve valuable video content for future viewing. This innovative IP-based system records, streams live, or plays back on demand to a PC or any video conferencing endpoint.

Codian's IP VCR is flexible and exceptionally easy to install and operate. Use the Codian IP VCR for corporate training, executive briefings, web-casts, news, collaboration, distance learning, telemedicine and more.

It's another way in which Codian's video conferencing infrastructure solutions help you conduct business better, every day.

### The Codian Difference

#### Flexible Recording and Playback

Record voice, video and slides from standard video conferencing equipment. Stream live or play back the content on demand to any PC or video conferencing endpoint.

#### Easy for Everyone

Provides a single access point for creating streams and content from any H.323 endpoint. Simplifies the recording of calls so there's no need for manual video taping – call the IP VCR direct to record a presentation, or connect to your MCU to record a conference.

#### Capture the Presentation

Using H.239 dual video support, the Codian IP VCR also allows you to record conference data such as diagrams, spreadsheets and presentation slides.

#### High Quality Recordings

Video and data are recorded in their native formats with no loss of quality. Intelligent transcoding and transrating delivers optimal video whether being played back, streamed or exported.

#### Export and Archive

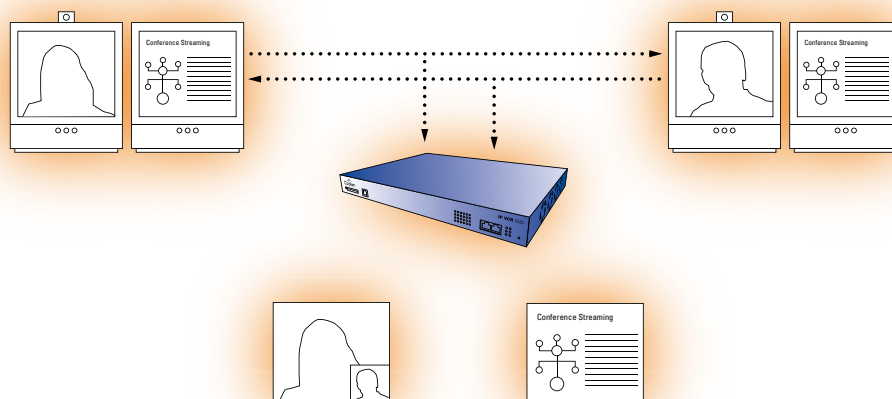
Freedom to transfer recordings to streaming servers, edit and play back on a PC, create a pod-cast, or copy to a DVD.

#### Reach a Broader Audience

Stream live, at multiple bandwidths, using QuickTime™, RealPlayer™ or Windows Media Player™, ensuring that everyone connects and experiences the event first-hand.

#### MCU Integration

Only Codian gives you the ability to play recorded content directly into a live conference - simply add the recording into your multi-way conference on any MCU, including Codian's MCU 4200 series voice and video bridges.



Model	H.323 Recording Ports	H.323 Playback Ports	Live Streaming Unicast / Multicast	Recorded Hours High / Med / Low quality*	Video Firewall
IP VCR 2210	1	5	100 / unlimited	75 / 150 / 300	No
IP VCR 2220	5	10	200 / unlimited	150 / 300 / 600	Included
IP VCR 2240	10	20	400 / unlimited	300 / 600 / 1200	Included

\* Example capacities assume high quality is H.264 at 512 kbps, medium is H.264 at 256 kbps and low is H.264 at 128 kbps

## Video Standards

H.261, H.263, H.263+, H.263++, H.264, MPEG-1

## Resolution

QCIF, QSIF, CIF, SIF, iCIF, iSIF, 288p, 384p, 400p, 448p, VGA, 4CIF, 4SIF, 480p, SVGA, 576p, XGA, 720p

## Frame Rates

Up to 30 frames or 60 fields per second in all modes

## Audio Standards

G.711, G.722, G.723.1, G.728, G.729, MPEG-4 AAC-LC, MPEG-4 AAC-LD, Polycom® Siren14™ / G.722.1 Annex C

## Protocols

H.323 v4, SIP, H.239 (dual video), FTP, RTP, RTSP, HTTP, DHCP, SNMP, NTP

## Bandwidth

From 128 kbps to 2 Mbps

## Universal Transcoding and Transrating

Video and audio are played back via H.323 or streamed using a bandwidth and codec that can be different to the source • The IP VCR will transcode and transrate as required • All recordings are stored in native format with no loss of quality

## Recording

From an H.323 endpoint, MCU or Gateway • From two H.323 endpoints on a point to point call • H.323 dial in, or dial out from web server • Data from H.239 (dual video) capable endpoints • Up to 200 recordings • Folders for structured storage

## Streaming Video

Stream live or recorded content • Slides presented alongside video • Pause, rewind and fast forward for recorded playback • Embedded via web interface or standalone via URL • Stream at multiple bandwidths • Viewed using Windows Media Player™, RealPlayer™ or QuickTime™ • Support for 3rd party streaming servers • Unicast and multicast • UDP, TCP or HTTP

## H.323 Playback

To H.323 endpoint, MCU or gateway • Select using E.164 address, using auto attendant or dial out from web server • Replay of data / slides using H.239 (dual video) • Choose side-by-side or picture-in-picture (voice activated) layout for playback of point-to-point recordings • Pause, rewind and fast forward using remote control • Bandwidth / codec adjusted to match endpoint and network

## Export Recordings

Export in industry-standard MPEG-1 format • Easily create CDs or DVDs

## Import Video

Upload industry standard MPEG-1 video presentations

## Localization and Customization

Custom IVR / auto attendant audio prompts and graphics • Uploadable multi language support

## Embedded Web Server

Complete configuration, control and monitoring of the system and recordings

## System Management

Management via embedded web server • RS-232 for local control and diagnostics • Syslog for diagnostics • Configurable event logs and full H.323 and SIP decoding • Configuration backup to network • Secure upgrades through Ethernet or CompactFlash • SNMP

## Quality of Service

Configurable DSCP or TOS/IP precedence

## Network Resilience

Packet Safe™ technology provides intelligent downspeeding, packet pacing and packet loss concealment to ensure optimum video and audio quality • Dynamic jitter buffering

## Security Features

Administrator, User and Guest passwords • Password protected streaming and content playback • DTMF passwords for H.323 endpoints • Secure non-PC hardware and operating system • Video Firewall Option using second Ethernet port

## Interfaces

2 x RJ45 Ethernet, 10/100/1000 Mbps full/half duplex, manual or auto sensing • RJ45 serial port • CompactFlash socket • 41 status LEDs

## Environmental Data

Operating temperature 0°C to 35°C ambient  
Relative humidity below 90%

## Physical Dimensions

Height 1.73", 44 mm (1U), Width 17.2", 437 mm  
Depth 12.3", 312 mm, Weight 9 lbs, 4kg  
19" rack mountable (kit supplied) or standalone  
Power 100-240 VAC, 50/60Hz  
110W max power consumption

## Approvals and Compliance

European safety: EN 60950-1:2001  
USA safety: UL 60950-1 first Edition  
Canada safety: CSA 60950-1-03  
CB Scheme certificate, CE Marked  
EMC: EN55022 class A, EN61000-3-2, EN61000-3-3, EN55024: EN61000-4-2, -3, -4, -5, -6, -11,  
FCC Part 15 class A, VCCI class A, AS/NZS 3548 (C-Tick)  
CCC Approved: GB4943-2001, GB9254-1998,  
YD/T993-1998  
NAL Certificate (China)  
RoHS compliant



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