Codian IP VCR 2200 Series
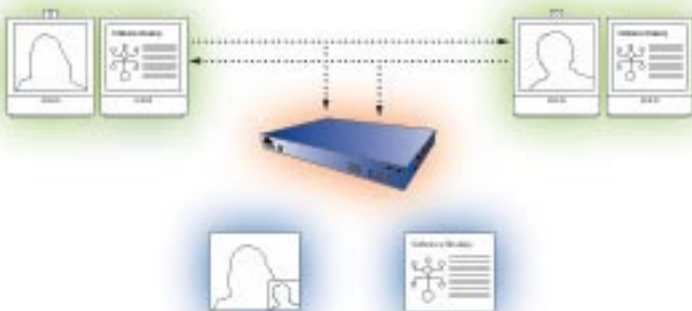## Video Conference Recorder and Streaming Server

Live Streaming and Video on Demand

The Codian IP Video Conference Recorder (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, also records and streams live or plays back on demand to a PC or to 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 and executive briefings — also for webcasts, news, collaboration, distance learning, telemedicine, and more. It's another way in which Codian's video conferencing infrastructure solutions help you conduct business better, everyday.

IP VCR 2200

The Codian Difference

Flexible Recording and Playback

Record video and slides from standard video conferencing equipment. The content can be streamed live or played back on demand at multiple speeds to a PC or any video conferencing endpoint.

Easy for Everyone

Provides a single access point for creating streams and content from any H.323 endpoint. Simplifies recording of calls so there's no need for manual video taping. Simply 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 the conference data such as diagrams, spreadsheets, and presentation slides.

High Quality Recordings

The video and data are recorded in their native formats with no loss of quality. Intelligent transcoding and transrating ensures that the video quality is always optimal 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 podcast, or copy to a DVD.

Reach a Broader Audience

Stream live, at multiple bandwidths, using QuickTime™ or Windows Media Player™, ensuring that everyone connects and gets an in-person experience.

MCU integration

Only Codian offers you the ability to bring recorded content directly into your live conference — simply add the recording into your multi way conference on any MCU, including Codian's MCU 4200 voice and video bridge.

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IP VCR 2200 Series Specifications

Three High Performance Versions

Model	H.323 Recording Ports	H.323 Playback Ports	Video 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 kbit/s, medium is H.264 at 256 kbit/s and low is H.264 at 128 kbit/s

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

Video Resolution
QCIF, QSIF, CIF, SIF, iCIF, iSIF, 4CIF, 4SIF, VGA, SVGA, XGA

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

Audio Standards
G.711, G.722, G.728, G.729, MPEG-1 layer II, G.723.1 and Polycom® Siren14™/ G.722.1 Annex C, AAC

Protocols
H.323 v4, H.239 (dual video), ftp, RTP, RTSP, HTTP, DHCP, SIP

Bandwidth
From 128kbit/s to 2 Mbit/s

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

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™ or QuickTime™ • Support for 3rd party streaming servers • Unicast and multicast

H.323 Playback
To H.323 end point, MCU or Gateway • Select using E.164 address, using Auto Attendant or dialout from Web server • Replay of data / slides using H.239 (dual video) • Choose side by side or PiP (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 • Built-in and uploadable Auto Attendant voice prompts

Export Recordings
Formats include ASF and industry standard MPEG-1
Easily create CDs or DVDs

Import Video
Upload industry standard MPEG-1 video presentations

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 decoding
Configuration backup to network
Secure upgrades through Ethernet or Compact Flash
SNMP

Quality of Service
Intelligent downspeeding, packet pacing and packet loss concealment ensure optimum video and audio quality whatever the nature of the network
DSCP, IP Precedence, TOS
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
AES encryption, 128 bit key, H.235
Video Firewall Option using second Ethernet port

Interfaces
1 (or 2) RJ45 Ethernet, 10/100/1000 Mbit/s full/half duplex, manual or auto sensing
RJ45 serial port
Compact Flash socket
37 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 stand-alone
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
EMC: EN55022 class A, EN61000-3-2, EN61000-3-3, EN55024: EN61000-4-2,-3,-4,-5,-6,-11,
FCC Part 15 class A,
CE Marked

www.codian.com

Codian Inc
1570 The Alameda #216
San Jose CA 95126 USA
Toll-free: 1-888-CODIAN-0
(1-888-263-4260)
Tel: (408) 938 2300
Fax: (408) 287 6630

Codian Ltd
14 Waterside Drive
Langley
Slough SL3 6EZ
United Kingdom
Tel: +44 (0)1753 548 333
Fax: +44 (0)1753 548 303

Codian (Asia Pacific) Ltd
Suite 1606, Saxon Tower
7 Cheung Shun Street
Cheung Sha Wan
Kowloon
Hong Kong
Tel: +852 3583 1430
Fax: +852 3583 1055