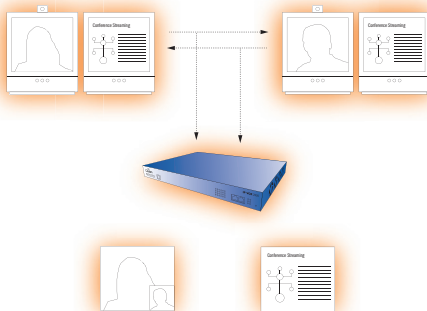




## TANDBERG Codian IP VCR 2200 Series

The TANDBERG Codian IP VCR 2200 Series is an innovative, high-performance, IP-based videoconference recording, playback and streaming system. It is exceptionally easy to install and operate, with an intuitive and versatile management interface. Compatible with all major vendors' endpoints, it is ideal for corporate training, executive briefings, webcasts, news, distance learning, telemedicine and more.



#### DESIGN FEATURES

- Standards-based and compatible with all major vendors' endpoints
- Easy-to-use, versatile, management interface
- Up to 10 recording ports and 20 playback ports
- Fully integrated, with built-in gatekeeper and streaming server
- Comprehensive wideband audio support
- H.239 dual-video support
- Compact size: 1U tall and 19" rack mountable

#### APPLICATION FEATURES

- Record voice, video and content from standard videoconferencing equipment
- Stream live or playback the content on demand to any PC or videoconferencing endpoint
- Support for QuickTime™, RealPlayer™ and Windows Media Player™
- Offers full interoperability with ISDN networks using standalone TANDBERG Codian or third-party ISDN Gateways
- PacketSafe™ technology minimizes effects of network packet loss

#### PERFORMANCE FEATURES

- TANDBERG Codian Universal Port™ technology ensures each participant gets an excellent experience
- Constant high capacity
- Bandwidth per site up to 2 Mbps
- Video resolutions from QCIF up to 720p
- Frame rate up to 30 fps
- Standard Definition Continuous Presence

GET THE MOST FROM YOUR INVESTMENT. WITH **PROFESSIONAL SERVICES**, TANDBERG EXPERTS SUPPORT TANDBERG CODIAN IP VCR 2200 DEPLOYMENT AND TRAINING. VISIT [WWW.TANDBERG.COM](http://WWW.TANDBERG.COM)

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	80/UNLIMITED	75/150/300	NO
IP VCR 2220	5	10	80/UNLIMITED	150/300/600	INCLUDED
IP VCR 2240	10	20	80/UNLIMITED	300/600/1200	INCLUDED

\*Numbers are not concurrent, i.e. the IP VCR cannot support stated number of recordings and playbacks at the same time.

\*\*Maximum number of unicast streams is dependent on network topology.

\*\*\*Maximum of 50 UDP streams with H.239, Maximum of 25 TCP streams with H.239, Maximum of 50 TCP streams with no content, Maximum of 80 UDP streams with no content

\*\*\*No live streams with H.323 playback

\*\*\*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

From QCIF up to 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/SIP 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 endpoint, MCU or gateway. From two endpoints on a point-to-point call. H.323/SIP dial in, or dial out from built-in 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.

#### PLAYBACK

To 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.

#### BUILT-IN 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

2xRJ45 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 95% (non-condensing).

#### PHYSICAL DIMENSIONS

Height 1.73", 44 mm (1U). Width 17.2", 437 mm. Depth 12.3", 312 mm. Weight 9 lbs, 4 kg. 19" rack mountable (kit supplied) or standalone. Power 100–240 VAC, 50/60Hz110W 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.

All specifications subject to change without notice, system specifics may vary.

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