



TANDBERG  
**Codian**  
**MSE 8220**  
**VCR blade**

The TANDBERG Codian MSE 8220 VCR blade is an innovative, high-performance, chassis-based, IP 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, Web casts, news, distance learning, telemedicine and more.



MSE 8000  
Chassis

**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
- Enables up to 90 recording ports and 180 playback ports via single chassis
- Fully integrated, with built-in gatekeeper and streaming server
- Comprehensive wideband audio support
- H.239 dual video support
- Pay as you grow — buy the capacity you need now and upgrade in the future with a software license

**APPLICATION FEATURES**

- Record voice, video and content from standard videoconferencing equipment
- Stream live or play back 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 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 MSE 8000 SYSTEM DEPLOYMENT AND TRAINING. VISIT [WWW.TANDBERG.COM](http://WWW.TANDBERG.COM)

#### 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 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

#### SOFTWARE LICENSE

VCR recording port licenses required in MSE 8000 chassis to enable VCR recording ports

#### ENVIRONMENTAL DATA

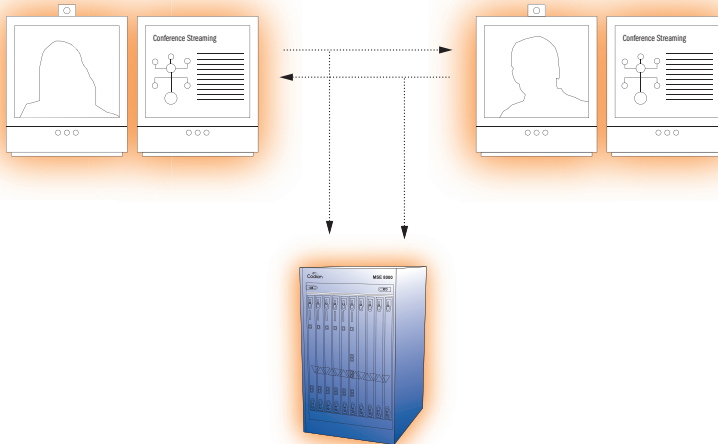
Operating temperature 0°C to 35°C ambient  
Relative humidity below 95% (non-condensing)

#### CHASSIS PHYSICAL DIMENSIONS

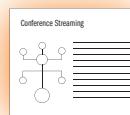
Height 33.25"; 842 mm (19U)  
Width 17.2"; 437 mm  
Depth 20.5"; 520 mm  
19" rack mountable (kit supplied)  
Power -48 VDC, 100-240 VAC 50/60 Hz

#### 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



MSE8000 with MSE8220 VCR option blade



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

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#### TANDBERG

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