

VCS2000D

Digital Wired
Conference System

VAL audio

Die Liebe zur Musik



SYSTEM OVERVIEW

The VAL Audio VCS2000D Digital Conference System is a next-generation wired conferencing solution engineered to provide uncompromised speech clarity, intuitive system management, and robust integration capabilities. Designed with a focus on scalability and reliability, it is ideally suited for boardrooms, council chambers, hotels, educational institutions, and multi-purpose conference facilities where professional communication is critical.

At the heart of the system is the VCS2000DT Intelligent Touch-Screen Controller, which manages audio, video, and system control through a simple 4.3" color display interface. This central unit allows operators to select from multiple microphone management modes, configure participant limits, monitor live status, and record proceedings - all without requiring additional hardware. The built-in HDMI seamless switcher enables fast and delay-free video integration with up to four cameras, while RS-232/RS-485 compatibility ensures easy connection to third-party control systems, including camera tracking and automation platforms.

Complementing the controller are the VCS2000CU Chairman Unit and VCS2000DU Delegate Units, featuring precision-engineered condenser microphones with integrated LED indicators, durable aluminium alloy construction, and bright TFT displays for participant information. The chairman unit provides complete meeting moderation, allowing override of delegate microphones, priority control, and approval of speaking requests, ensuring orderly discussions in larger or formal settings.

Unlike conventional systems, the VCS2000D is built on a modular wired architecture that guarantees stable, interference-free performance. It supports up to 60 units on a single controller, expandable to 250 units with power extenders, making it adaptable for both small executive meetings and large-scale conferences. Intelligent audio processing, including frequency shifting for feedback suppression and advanced noise filtering, ensures that every spoken word is delivered with precision and clarity.

By combining high-quality audio capture, flexible discussion management, integrated video support, and seamless recording capability, the VAL VCS2000D provides a complete, all-in-one solution for professional conferencing environments where clarity, control, and reliability are paramount.

SYSTEM KEY FEATURES

- **Stable Wired Architecture** – Provides consistent, interference-free operation compared to wireless alternatives, making it ideal for mission-critical environments
- **Ease of Installation** – Standard 19" rack-mountable main controller and plug-and-play unit connectivity make deployment straightforward and scalable
- **Future-Proof Design** – With modular expansion, third-party integration, and professional-grade build quality, the VCS2000D is designed to deliver long-term reliability in demanding conference environments

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KEY FEATURES

INTELLIGENT CONTROLLER UNIT

- **4.3" IPS Touchscreen Control** – Provides an intuitive interface for system configuration, live monitoring, and quick adjustments during meetings. The multilingual display ensures ease of use for operators and end-users alike
- **Flexible Conference Modes** – Offers multiple microphone management options including Free, Limit (1–6), Apply, FIFO (First-In-First-Out), Timed Speech, Chairman-Only, Voice-Activated, and Testing Mode. These modes allow moderators to adapt the discussion style to suit both formal assemblies and open discussions
- **Integrated 4x1 HDMI Seamless Switcher** – Enables real-time video integration with up to four Full HD cameras (1080p @ 60Hz). Switching between cameras is instantaneous and delay-free, making it ideal for recording or broadcasting applications
- **Built-in MP3 Recorder** – Direct-to-USB recording function (up to 32GB, ~14 days) eliminates the need for external recorders, ensuring every meeting is archived securely
- **Advanced Audio Processing** – Equipped with high/mid/bass tone controls, microphone gain management, and frequency-shifting feedback suppression to guarantee clear, distortion-free audio in demanding acoustic environments
- **Scalable System Design** – Supports up to 60 units directly from the controller and can be expanded to 250 units with the addition of power extenders, making it suitable for small boardrooms through to large-scale conferences
- **Third-Party Integration** – Compatible with industry-standard RS-232/RS-485 protocols and supports Pelco-D, Pelco-P, and VISCA, allowing seamless integration with central control systems and auto-tracking cameras

KEY FEATURES

CHAIRMAN UNIT/ DELEGATE UNIT

- **Professional Microphone Design** – Each unit features a high-fidelity unidirectional condenser gooseneck microphone with an illuminated red LED ring, ensuring clear voice pickup while visually indicating active status
- **1.8" TFT Color Display** – Provides real-time meeting information including delegate ID, speech time, system mode, and request-to-speak status, ensuring participants remain informed throughout the session
- **Durable & Elegant Build** – Constructed with precision-machined aluminium alloy and finished with a sleek silver trim and acrylic glass surface, the units are designed for both durability and modern aesthetics
- **Chairman Priority Functions** – The chairman unit offers full control over the meeting, including the ability to override delegate microphones, mute participants, and approve or reject speaking requests. This ensures orderly discussions in structured environments
- **Clear and Reliable Audio Pickup** – Optimized for a speaking distance of 10–40 cm, with intelligent noise suppression extending clarity up to 1 m, ensuring natural, intelligible speech reproduction
- **Safe & Simple Connectivity** – Powered by DC 24V from the main controller, each unit operates safely and reliably. RJ45 ports with daisy-chain capability simplify installation and reduce cabling complexity

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SPECIFICATIONS

| VCS2000DT - CONTROLLER UNIT | |
|-----------------------------|--|
| Input / Output ports | 4 x 8P-DIN, 4 x RJ45 |
| Audio input | 1 x RCA |
| Audio output | 1 x XLRM, 1 x RCA, 1 x 6.35 mm Jack |
| Video input / output | 4 x HDMI IN / 1 x HDMI OUT (1080P @ 60Hz) |
| Power supply | AC 220V, 50Hz |
| Maximum power consumption | 120W |
| Frequency response | 20Hz - 20kHz |
| Signal to Noise ratio | ≥78dB (1kHz, THD 1%) |
| Audio impedance | Line In: 50kΩ, Balanced: 300Ω, Max Out: 400Ω |
| Color | Black |
| Dimension (WxDxH) | 480 x 325 x 88 mm |
| Net weight | 8.5 Kg |

| VCS2000CU - CHAIRMAN UNIT / VCS2000DU - DELEGATE UNIT | |
|--|-------------------|
| Input / Output ports | 2 x RJ45 |
| Microphone type | Condenser |
| Power supply | DC 24V |
| Current drain | 60mA |
| Sensitivity | -47dB |
| Signal to Noise ratio | ≥65dB |
| Frequency response | 100Hz ~ 10kHz |
| Installation | Desktop |
| Color | Black |
| Dimension (WxDxH) | 155 x 110 x 63 mm |
| Microphone stem length | 220 mm |
| Net weight | 1 Kg |