



DH-590M

Conference Control Unit



DESCRIPTION

The DH-590M Conference Control Unit is an advanced central management system designed to facilitate seamless and structured discussions in professional meeting environments. Supporting both DH-592C Chairman Units and DH-592D Delegate Units, it ensures real-time microphone control, multiple discussion modes, and intuitive system operation. With its 4.3-inch IPS touchscreen display, users can easily configure settings, monitor active microphones, and manage participant engagement for a smooth and efficient conferencing experience.

Its GSM interference protection eliminates disruptions from mobile signals, guaranteeing clear and uninterrupted audio transmission. Built with hot-swappable connectivity, the DH-590M allows microphone units to be connected or replaced without interrupting ongoing discussions. The unit features multiple conference modes, including first-in-first-out (FIFO), last-in-first-out (LIFO), chairman priority mode, and full open mode, providing flexibility for different meeting formats.

FEATURES

Conference Management & Control

- Supports multiple meeting modes including FIFO, LIFO, restricted mode, chairman mode, and full open mode for flexible discussion management.
- Speaker limit function allows customization of the maximum number of active microphones, ensuring structured and balanced discussions.

Seamless Microphone Integration

- Compatible with DH-592C Chairman Units and DH-592D Delegate Units, allowing seamless communication and system expansion.
- Supports up to 120 microphone units with hot-swappable connectivity for easy maintenance and installation.

Advanced Audio Processing

- Integrated audio mixing and automatic gain control (AGC) ensures clear speech transmission without distortion.
- Built-in GSM immunity prevents interference from mobile signals, delivering uninterrupted audio clarity.

Touchscreen Interface & System Control

- Equipped with a 4.3-inch full-color IPS capacitive touchscreen for intuitive system configuration and monitoring.
- Provides real-time status updates for active microphones, speaker settings, and meeting modes.

External Audio & Recording Connectivity

- Balanced audio output and RS232 control interface enable seamless integration with external sound reinforcement and recording devices.
- Allows connection to broadcasting, sound amplification, and recording systems for enhanced meeting documentation.

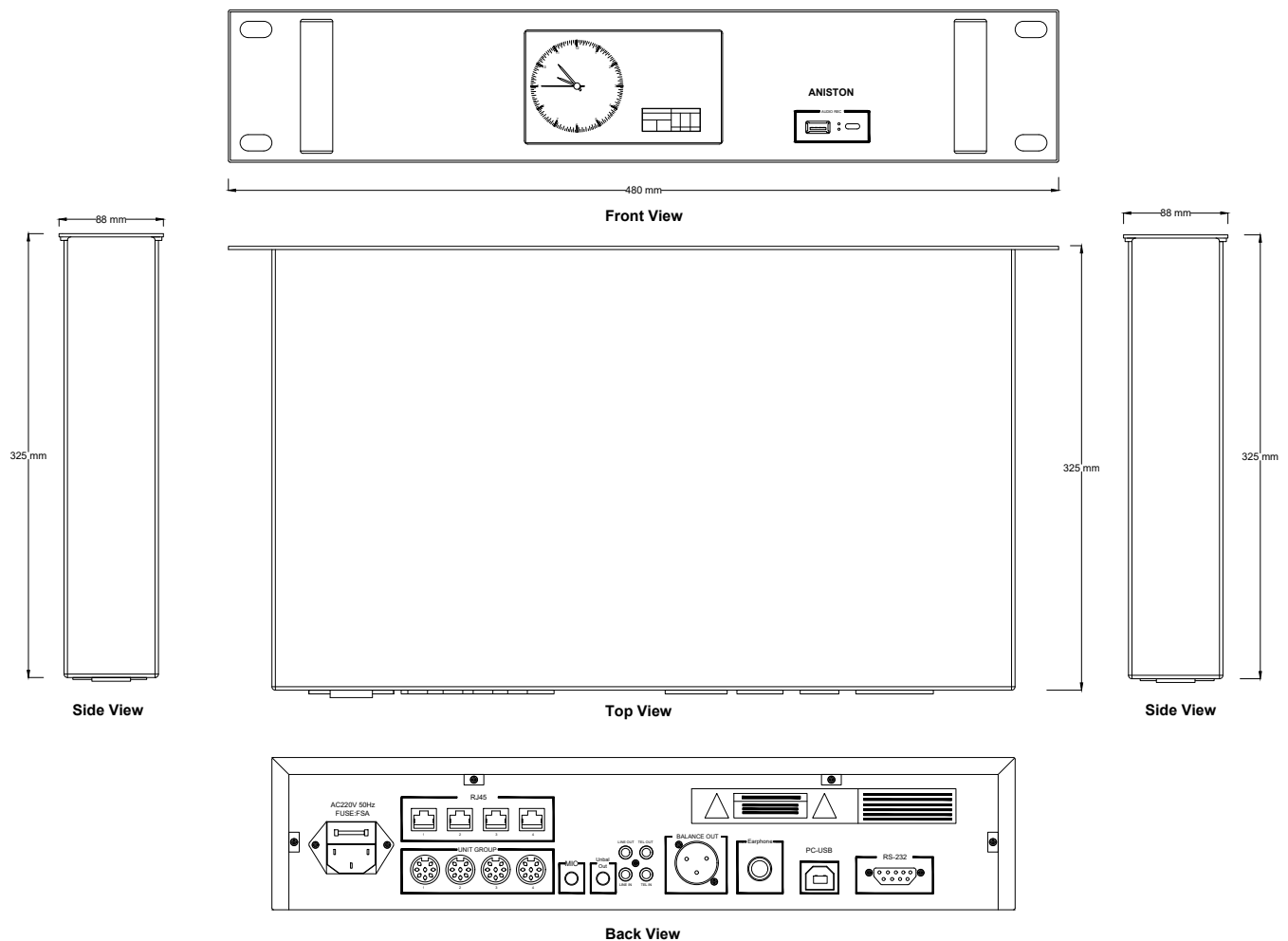


TECHNICAL SPECIFICATIONS

Model	DH-590M Conference Control Unit
Product Type	Network-managed digital conference control unit for wired chairman and delegate discussion systems
System Architecture	Digitally coordinated conference management platform with embedded real-time processing engine
Compatible Units	Works with designated chairman and delegate discussion units (DH-592C / DH-592D series)
Connection Topology	Sequential hand-in-hand node connection topology for large-scale expansion
System Capacity	Supports up to 120 discussion units in one system
Per-Port Loading	RJ45 ports: up to 20 units each; Multi-core ports: up to 30 units each
Discussion Unit Ports	4 × RJ45 conference ports + 4 × 8-pin multi-core conference ports
Live Unit Handling	Hot-swappable (live-insertion capable discussion units)
Microphone Access Modes	FIFO, LIFO, Restricted, Chairman Priority, Supervisory Override and Full Open modes
Concurrent Microphones	Adjustable limit from 1 to 12 simultaneously active microphones
Speech Time Control	Programmable speech duration from 0 to 999 seconds
Automatic Timeout	Configurable inactivity-based microphone deactivation
Push-to-Speak Logic	Push-to-talk with chairman and supervisory override capability
Audio Processing	Digitally managed conference audio mixing with automatic gain control (AGC) and GSM interference immunity
Audio Frequency Response	20 Hz – 20 kHz full-range; optimized 100 Hz – 14 kHz for speech clarity
Signal-to-Noise Ratio	≥ 78 dB (1 kHz reference)
Audio Clocking	Standardized digital clocking architecture with high-resolution digital word-length processing
External Audio Inputs	2 × RCA line inputs for PC, wireless mic receiver, or media sources
Audio Outputs	1 × Balanced XLR, 1 × RCA line output, 1 × 6.35 mm monitor output
Input Impedance	Line: 50 kΩ, Conference Bus (PBIN): 50 kΩ
Output Impedance	Recording: 200 Ω, Line: 200 Ω, Balanced: 300 Ω, Unbalanced: 400 Ω
Control & Integration	RS-232 interface for centralized automation and control systems
Network Interface	Ethernet-based system communication with electromagnetic noise suppression
Operator Interface	4.3-inch capacitive IPS color touchscreen for live monitoring and configuration
Security	Credential-protected system configuration access
Power Input	AC 100–240 V, 50/60 Hz
Maximum Power Consumption	120 W
Protection Design	Integrated electrical and EMI protection architecture
Mechanical Format	19-inch rack-mount metal chassis
Dimensions	480 × 325 × 88 mm
Weight	Approx. 8.5 kg
Environmental Use	Indoor professional AV and conference environments
Applications	Boardrooms, council chambers, courtrooms, corporate meeting rooms, and institutional conference halls
Warranty	3-year standard warranty (extendable up to 5 years)



PRODUCT DIMENSION



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