



EDGE CONFERENCE MICROPHONE

**Communicate seamlessly
in your meetings**

**Digital Edge Series
Conference Microphones**





Impress your customers with Stapes Tabletop Digital Conference System



Advanced All-Digital Conference Technology

Powered by the latest IRIN DSP architecture, the microphone intelligently optimizes pickup patterns, enhances speech clarity, and minimizes background noise



Premium Build & Modern Ergonomic All Metal Design

Integrated 9.7mm capacitive mic capsules and a wide pickup angle ensure accurate voice capture from multiple directions while maintaining balanced tonality and superior sensitivity



Intelligent Camera Tracking & Recording

Built-in AI-based speaker localization allows automatic camera and audio tracking of active participants. With strong anti-interference shielding against mobile, Wi-Fi, and Bluetooth signals



Flexible & Efficient Conference Management

Crafted with aircraft-grade aluminum alloy and touch-glass controls, the microphone offers a modern aesthetic, capacitive touch operation, and waterproof/dustproof protection — ensuring long-term durability in conference environments.

Specifications of Stapes Digital Edge Conference Mic

Gooseneck Tabletop technology

Faster beam pickup with even narrower directivity on higher frequencies (20°-30°)

4 PTZ Camera Look at me connectivity

Support for 4 nos. VISCA, PELCO-P, PELCO-D Camera for look at me function

Easy configuration

Control & monitoring via Stapes Software or touch Panel on controller

Audio outputs and Headphone jack


1 x 3.5mm 1x Audio Output for mixer or speakers

Power Supply


220V Low power consumption

Elevate your conferencing experience with the STAPES Digital Intelligent Edge Microphone, a next-generation solution designed to deliver unmatched clarity and intelligent audio pickup. This advanced tabletop system perfectly adapts to modern meeting environments, offering precision, performance, and control in one compact unit. Featuring the IRIN digital processing chip and 17 gold-plated capacitive microphone capsules, it intelligently detects active speakers and focuses pickup accordingly—ensuring clear, natural voice transmission across the room. Its AI-driven beamforming technology and automatic gain control optimize every conversation, reducing noise and echo for seamless communication. With a touch-glass interface, aluminum alloy body, and integrated anti-interference design, the STAPES Array Microphone combines cutting-edge technology with elegant aesthetics. Compatible with both analog and digital conference systems, it supports PoE power, IP-based control, and integration through RS-232/RS-485 protocols, making it the ideal choice for smart, future-ready meeting spaces.







Professional audio
IRIN chip, 4
cores, 1.5G main
frequency




AI core Audio
processing
algorithm




microphones,
shared by 2
pickup distance



Smart Algorithms
for Speech
Localization and reinforcement for
Separation



Non-inductive
sound
reinforcement,
no howling.



Loud sound
reinforcement,
no howling.

Stapes Array simplifies your daily meetings

Price Point



The latest edition of the Digital microphone is priced significantly lower than its predecessor and now competes at the same or lower price point as comparable products from competitors. However, its greatest value lies in the drastically reduced installation and setup costs, making it the most cost-effective solution available

Ease of Integration



The latest edition of our Digital microphone not only costs significantly less than its predecessor but now also matches or beats the pricing of comparable competitive products. The real standout, however, is its drastically reduced installation and setup costs, making it the most valuable solution available on the market

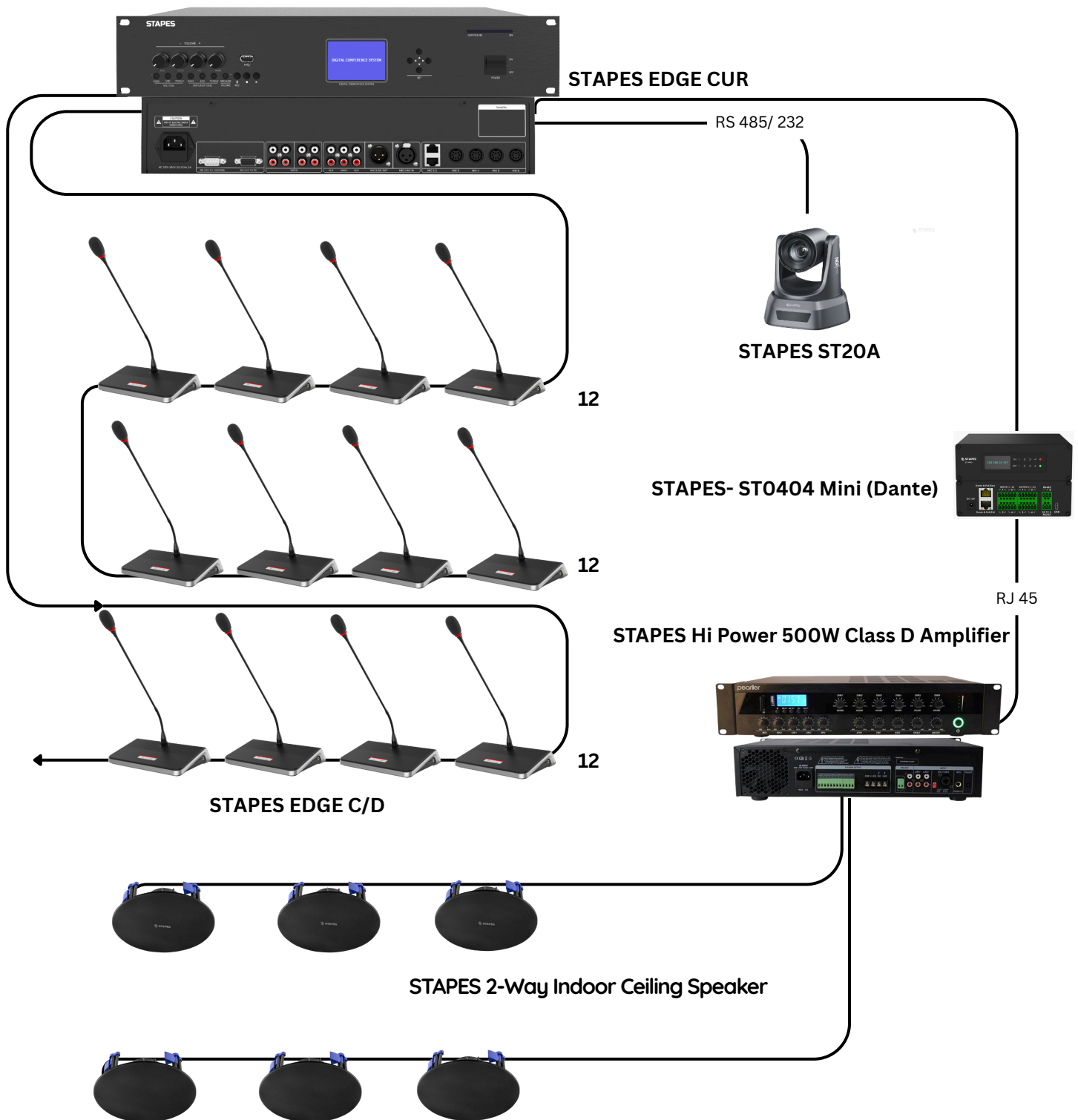
Secure Connection



The enhanced ceiling microphone offers versatile audio connection options. Users can choose between an analog output or one of two digital Dante™ outputs.



CONFERENCE ROOM LAYOUT- METAL SERIES



BILL OF MATERIAL

Conference Host.....1 no.
 Delegate Units.....48 no.
 Conference Chairman.....1 no
 Amplifier 500W1 no.
 Ceiling Speakers6 no.
 STAPES PTZ Camera.....1 No.
 STAPES DSP 0404.....1 No.

MICROPHONES



The omnidirectional microphone capsules, engineered and precision-manufactured in Luxembourg, continuously scan the entire meeting area, allowing the microphone to automatically detect and focus on the active speaker without requiring any manual zone setup. These high-sensitivity gold-plated capsules, trusted across STAPES' professional microphone range, deliver exceptional speech clarity and intelligibility—ensuring that every word is captured accurately and transmitted flawlessly between in-room and remote participants.

Utilizing Stapes' proprietary microphone capsules for exceptional audio capture



Key Features

- Adopts all-digital conference technology for signal transmission and processing, ensuring high-quality and reliable sound performance.
- Simple, stable tabletop design with strong anti-static function, ergonomic structure, and a modern technological appearance.
- Made from aviation-grade aluminum-magnesium alloy, polished through 18 precision processes for strength and finish.
- Microphone rod joints and all studs are made of pure copper to maintain sound fidelity and ensure long-term stability.
- Uses an advanced chipset with optimized circuit design to enhance system reliability and performance.
- Employs DSP/DDOV digital processing and transmission technology to eliminate long-distance signal loss; supports line distance up to 150 meters.
- Supports multiple connection methods including one-line, junction box, T-head, and ring hand-in-hand configuration.
- Uses 8-pin DIN shielded or CAT5 cable to effectively prevent electromagnetic interference and avoid data loss.
- Operates as a passive unit powered by 24V from the conference host; a single channel supports up to 30 conference units with low power consumption.
- Utilizes strong digital anti-interference technology to prevent disruption from mobile phones, Bluetooth, radio, or Wi-Fi signals.
- Integrates camera auto-tracking and recording functions, with control via host presets, control keyboard, or PC software.
- Supports first-in-first-out (FIFO) mode with 1–6 active speakers, while chairman units remain unrestricted.
- Offers free discussion mode, allowing all units to speak without limitation.
- Enables multiple speaking modes through PC management software including queuing, permission, and speech time limit options.
- Designed with advanced electrostatic isolation technology to prevent static discharge even in dry environments.
- Supports hot-plug connection with live lines for safer and more reliable system operation.
- Equipped with three color indicators: red for active speech, green for VIP, and yellow for unit number status.
- Uses a high-quality sponge cover with excellent elasticity and breathability to prevent loosening and deformation.
- Features intelligent audio detection that automatically attenuates nearby audio to prevent howling or feedback.
- Employs an electret super-cardioid directional microphone with a 50 cm pickup range for clear and precise sound capture.
- Supports high-fidelity lossless audio transmission with 48 kHz sampling frequency, 30 Hz–20 kHz response, and crystal-clear sound.
- Includes a spiral detachable microphone rod for easy transport, installation, and maintenance.
- Uses an ID addressing method allowing each unit ID to be customized via conference host or software to avoid duplication.
- Supports up to 8 chairman units with priority and override control to manage other speaking units.
- Allows setting of VIP units that have unrestricted speaking privileges and are not affected by other representative controls.
- Includes a 3.5 mm headphone jack for participant monitoring with independently adjustable volume.
- Optional built-in 2W high-fidelity speaker with auto-mute function to prevent howling, delivering clear sound and adjustable volume.

Technical information- Delegate/ Chairman Units

Models	STAPES Digital Microphone (Chairman / Delegate)
Conform to the Standard	IEC60065 International Standard
System Capacity	Supports up to 100 units (Chairman + Delegate)
Microphone Type	Digital Intelligent Desktop Type
Frequency Response	30Hz ~ 20KHz
Signal-to-Noise Ratio	>90dB
Sensitivity	85dB SPL
Total Harmonic Distortion (THD)	<0.05%
Microphone Sensitivity	-37dB ±2dB
Working Power Supply	24V DC ±5% (via PoE / Central Control Unit)
Working Current	50mA ±5%
Connection Method	Cat 6 Cable (T-head, ring hand handle)
Connector Type	Large 8-core / RJ45 Network Port
Number of Units Open	1 / 2 / 3 / 4 / 5 / 6 or All
Function Addressing	Customizable ID Number
Power Consumption	2W
Equivalent Noise	≤20dBA (SPL)
Maximum Sound Pressure Level	125dB (THD<3%)
Headphone Output Interface	Φ3.5mm Stereo Jack
Headphone Load Impedance	>16Ω
Headphone Output Power	10mW
Body Material	Aluminum Alloy with Mohs Level 6 Touch Glass Panel
Color Options	Blue / (Customizable)/ Black
Net Weight	0.9Kg
Dimensions (L × W × H)	280 × 66 × 50mm
Installation	Desktop Table top

Key Benefits - Controller

STAPES Edge Conference Controller Host

- The STAPES Edge Conference Controller Host is the central powerhouse for professional digital conference environments, engineered to deliver reliability, seamless integration, and outstanding speech clarity. Designed for modern council halls, boardrooms, training centres, and mission-critical discussion venues, the Edge Host unifies control, audio processing, and recording in a single compact solution.
- With true plug-and-play capability, the controller supports up to 80 STAPES discussion units, allowing rapid deployment and easy system expansion. A secure web-based configuration interface provides remote access for setup, device management, gain control, camera switching rules, and live monitoring — all through any standard browser without software installation.
- The Edge features an embedded MP3 recorder with internal memory, complemented by USB export functionality for meeting archiving and record-keeping. Integrated Digital Acoustic Feedback Suppression (DAFS) ensures clear communication by automatically reducing echo and acoustic ringing, even in reverberant rooms.
- For enhanced video automation, the controller includes on-board HD camera protocol support, enabling real-time camera tracking based on active microphones. A built-in monitor loudspeaker allows instant audio verification during live sessions.
- Engineered for worldwide deployment, the system operates from 100–240 VAC, 50/60 Hz, with power efficiency ranging from 1.9 A (100 VAC) to 1 A (240 VAC) and 24 V DC output at 6.0 A. Intelligent audio limiting maintains signal integrity with a 12 dB headroom threshold, while NOM-based gain reduction ($1/\sqrt{\text{NOM}}$) optimizes multi-microphone performance.
- With a wide 30 Hz–20 kHz frequency response (-3 dB) and total harmonic distortion below 0.5% at 85 dB SPL, the Edge delivers exceptional sonic transparency. High-speed Gigabit Ethernet connectivity ensures stable system communication and network-based control.
- The STAPES Edge Conference Controller Host blends performance, flexibility, and refined acoustic engineering — empowering organizations with the confidence and clarity to run every meeting flawlessly.



Technical information-- Delegate/ Chairman Units

- STAPES Edge Chairman / Delegate Tabletop Unit
- The STAPES Edge Chairman / Delegate Tabletop Unit combines elegant industrial design with advanced conferencing technology to deliver clear communication, intuitive meeting flow management, and seamless integration within the STAPES digital conference ecosystem.
- Featuring a unique patent-pending “Possible-to-Speak” indicator, the Edge unit provides real-time visual feedback that guides participants on microphone availability, ensuring smoother and more efficient meeting exchanges. The system’s plug-and-play architecture enables ultra-fast deployment, hassle-free reconfiguration, and effortless scaling — all while maintaining a compact, modern, and professional desk presence.
- The unit can be configured as either Chairperson or Delegate, allowing flexible seating arrangements without additional hardware. A built-in loudspeaker with independent volume control delivers clear audio reproduction without external amplification requirements, while the dedicated headphone jack offers personal monitoring with a separate volume control for convenience.
- High-grade circuitry ensures immunity from GSM and mobile phone interference, eliminating disruptive buzzing and ensuring uninterrupted speech. The unit maintains full spectral audio performance with a system electrical frequency response of 30 Hz–20 kHz and total harmonic distortion performance rated at 93 dBA.
- Engineered for performance and efficiency, the loudspeaker achieves 4 W peak output, 72 dB SPL nominal, and maintains an acoustic response from 200 Hz–16 kHz, ensuring natural vocal clarity. The integrated cardioid microphone capsule captures focused speech while reducing background noise, featuring participant vocal response from 125 Hz–15 kHz and optimized 85 dB SPL sensitivity for speech environments.
- With a headphone load impedance capacity from $>32\ \Omega$ to $<1000\ \Omega$, and secure connectivity enabled through proprietary STAPES cabling, the Edge unit ensures professional-grade performance and reliable network integration for every meeting.
- The STAPES Edge Chairman / Delegate Tabletop Unit delivers innovation, clarity, and control — empowering every participant to be heard with confidence.



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