

PA CONTROLLER

Model: KNTD-50PA

The Heart of Your Mission-Critical Communication



WHEN EVERY SECOND GOUNTS. GOUNT ON WINCOMPROMISING GLARITY AND GONTROL.

In any large-scale facility, the ability to communicate with absolute certainty is the bedrock of safety, efficiency, and peace of mind. For leaders at the helm of the world's most vital infrastructures — from bustling transportation hubs and critical health-care environments to secure transit facilities — the need for a communications system that performs flawlessly under pressure is paramount.

Imagine a system so intelligent and reliable that it anticipates your needs, acting as the central nervous system for your entire operation. A system that ensures every announcement, every alert, and every piece of audio is delivered to the right people, at the right time, with pristine clarity.

This is the promise of the KNTECH KNTD-50PA PA Central System Controller. It is more than just equipment, it is your partner in operational excellence and your guarantee of public safety.

Key Functional Features & Benefits: Architected for Assurance

I. Robust Architecture & Secure Operations

Dual Redundant Channel Design: Unfailing Operational Readiness. Ensures absolute continuous operation through multiple fault-detection mechanisms and automatic failover capabilities. It delivers true 24x7, round-the-clock readiness, while <u>built-in energy-saving features in standby mode</u> intelligently lower your operational costs and support your organization's sustainability goals.

Comprehensive Event Management: Automated Precision and Simplified Compliance. Imagine effortlessly managing complex schedules with perfect synchronization. The system provides automated scheduling and <u>detailed</u> <u>activity logging</u>, which is fundamental for reliable operation, <u>simplified compliance auditing</u>, and highly efficient system management.

II. Scalable Deployment & Intuitive Control

Extensive Zone Management: Command Your Environment with Precision. Your environment is dynamic; your control should be too. Seamlessly manage up to 50 IP devices across 50+ independently configurable zones. This

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empowers you to tailor your communications with unparalleled accuracy, ensuring your message is always relevant to the specific audience.



User-Friendly Interface: Sophistication Made Simple. Our intuitive, browser-accessible control platform empowers your team with straightforward configuration and content management from any authorized device. It features <u>integrated monitoring panels for both visual and aural verification of output levels in each zone</u>, giving operators immediate, undeniable confirmation that every broadcast is being delivered correctly.



Flexible System Expansion: A Future-Proof Investment That Grows with You. Seamlessly accommodate additional zones and devices without requiring a costly system overhaul. Furthermore, empower your on-site staff with <u>built-in volume attenuators</u>, allowing for discrete, local control in designated areas like function rooms, meeting rooms, and office spaces, enhancing user experience without needing central intervention.

III. Advanced Content & Scheduling Mastery



High-Definition Audio Storage: Your Library of Instant, Flawless Communication. Instantly deploy announcements and alerts with pristine playback quality. The system maintains a ready library of <u>uncompressed</u> <u>audio files (MP3/WAV format)</u>, with a capacity of up to <u>100 minutes of message storage</u>.



Precision Timing Control: Synchronized and Flawless Execution. A <u>built-in real-time clock</u>, synchronized via NTP or GPS, ensures precise message delivery and event coordination. It even features automatic daylight saving time correction, removing any margin for error.

IV. Superior Audio Performance & Data Protection



High-Definition Sound Quality: Cut Through the Noise with Absolute Clarity. Experience the power of 24-bit / 48kHz Audio-over-IP technology, ensuring sound pressure levels at least 10dB higher than background noise in all coverage areas. When a message is critical, it will be heard and understood.



Robust Data Protection: Safeguarding Your Communications. The KNTD-50PA supports both AES67 for audio and AES70 for control, with advanced encryption and authentication to prevent unauthorized access and protect the integrity of your network.

V. Comprehensive System Intelligence & Monitoring



Real-Time Supervision & Deep Analysis: Your Window into System Health. Maintain a complete understanding of your system's performance with continuous verification of messages and overall health, logging <u>up to 5000 system</u> <u>events</u> for incredibly thorough system analysis.



Customizable & Prioritized Alerts: Proactive Awareness, Total Control. Our configurable notification system gives you immediate awareness of potential issues before they escalate. Most importantly, its prioritization capabilities ensure that <u>critical announcements will always override lower-priority audio sources</u>, guaranteeing lifesafety messages are delivered without fail.

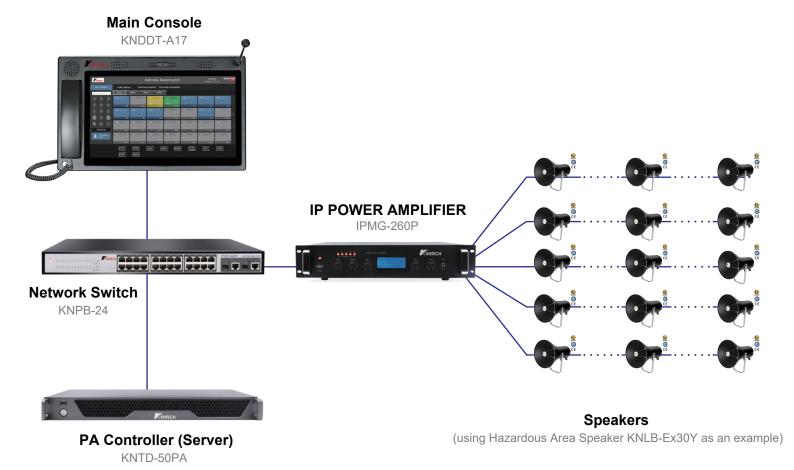


Specifications

Parameter	Description
Model	KNTD-50PA
Performance Specifications	
Power Consumption	Max.350W
Number of Channels	Unlimited
Sample Rate	48 kHz with 24-bit audio processing for high-definition sound quali
Pre-Installed Operating System	100 min of uncompressed audio storage
Message Storage	≥ 60dB
Number of Events (storage)	5000
Network & Integration	
Number of Ethernet Ports	2
Network & Integration	
Ethernet Type	100BASE-TX/1000BASE-T
Protocols and Interfaces	Software-configurable Parametric Equalization and Limiting
Maximum Cable Distance	Supports SIP and SIP TRUNK with Audio over IP protocol compate with AES67 for audio and AES70 for control
Configuration	Webserver
Encryption	AES128 for audio transmissionTLS for control data
Redundancy & Monitoring	= 120 for control data
Redundancy	Support for Dual redundant architecture with automated failover capabilities
	■ Front-panel LED indications and software monitoring
Integration	Real-time supervision of stored messages, tone data integrity a system health
	■ Detailed Event Tracking
Real Time Clock Synchronization	NTP
Daylight Saving Time Correction	Automatic adjustment
Physical & Environmental	
Operating Temperature	-5 to +50°C
Colour	Black
Case Material	Durable steel
Dimension (H x W x D)	440 (L) x 280 (W) x 44 (H) mm
Mounting	Rack-mounted: 19in,1U
Weight	5.8kg
Compliance	BS5839-8 , BSEN 60849 , IEC 62368-1 / IEC 60950-1 or equivale



System Architecture







Dimension

Unit in mm





Your Partner in Building a Safer, More Connected Future

Choosing the right technology is about more than just specifications; it's about choosing, a partner you can trust. With over 20 years of global experience in equipment design and marketing, we understand the unique challenges and stringent requirements of large-scale public and private sector projects.

The KNTECH KNTD-50PA is the culmination of this experience, engineered to provide not just a solution, but confidence. It is a commitment to quality, reliability, and the unwavering safety of the people you serve.

Take the first step towards a more secure and efficient communication ecosystem.

Contact us today to schedule a personalized demonstration and discover how the KNTD-50PA can become the intelligent heart of your operations.

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