



Description

The broadcast controller is primarily used to manage and control broadcast systems, including a 10x4 matrix control system. It integrates functions such as playback, intelligent timing control, audio matrix, zone control, master/slave switching, zone line detection, and fire alarm. The equipment boasts strong signal coverage, multi-channel audio input/output interfaces, reliable data transmission, and broadcast scheduling capabilities. It also possesses high reliability and stability to ensure long-term, continuous system operation and adaptability to complex environmental conditions and emergency situations, meeting the needs of specific scenarios. Examples include PA systems in kindergartens, primary schools, small factories, supermarkets, shopping malls, churches, and other public places.

Features

- *HD Dual-Control Operation Screen: Equipped with a 7-inch TFT color capacitive touchscreen with a physical resolution of 1024×600, providing clear and detailed visuals and accurately displaying the system's various operating statuses in real time. Supports dual operation modes: touchscreen and physical buttons (or knob + button), balancing convenience and emergency reliability for flexible and intuitive operation.
- *Intelligent Load Detection: Built-in load detection module monitors line status in real time, accurately reporting short circuits, open circuits, and various fault information, facilitating quick problem location and troubleshooting, and ensuring stable system operation.
- *Multi-Module Intelligent Power Supply: Features 5 controllable power modules and an intelligent power management system for efficient power distribution and control. The maximum total output power is 3000W, meeting the power needs of multiple devices operating simultaneously.
- *Full-Band Broadcast Reception: Supports FM and AM broadcast reception, with switchable automatic/manual station search modes. It can store up to 100 broadcast channels to meet diverse listening needs.
- *HD Digital Recording: Equipped with digital recording technology, utilizing 16-bit, 48kHz/s high-speed sampling for clear and faithful sound quality. Supports simultaneous recording and storage of various audio sources, including Blu-ray DVDs, auxiliary signals, and microphones, easily preserving important audio content.
- *Multi-Format USB Flash Drive Playback: Compatible with USB flash drive playback, decoding mainstream audio formats such as MP3, WMA, APE, FLAC, WAV, and AAC without complex conversions. Features one USB port for plug-and-play playback, suitable for various audio file scenarios.
- *Professional Sound Effect Adjustment: Built-in preamplifier module supports precise adjustment of treble and bass for delicate sound quality. Features two XLR (microphone/line-in) inputs, one emergency broadcast PTT microphone, and four RCA inputs. Each input has an independent volume control knob for precise volume control, suitable for scenarios with multiple audio sources input simultaneously.
- *Flexible Zone Control: Supports 10-channel zone output. The operating status of each channel can be displayed in real time and controlled independently. Any channel combination can be manually selected for output, achieving precise zoned broadcasting and adapting to the differentiated broadcasting needs of different areas.
- ** Intelligent Main/Backup Amplifier Switching: Features automatic/manual dual switching between main and backup amplifiers. When the main amplifier fails, it quickly switches to the backup amplifier to avoid broadcast interruption and ensure continuous and stable system operation.
- *Emergency Broadcast Interface: Features one emergency input interface, two emergency output interfaces, and one 24V forced-cut output. It can be connected to fire protection systems to enable forced-cut broadcasting and emergency announcements in emergency situations, meeting the needs of safety and emergency scenarios.
- *Built-in Monitoring Function: Built-in 3W monitoring speaker provides clear sound quality. Any channel can be manually selected for monitoring, allowing real-time control of broadcast sound quality and content for timely adjustments and optimization.



- *High-Precision Dual Timing: Built-in high-precision clock and GNSS satellite timing module, supporting DBS and GPS, provide dual timing protection, effectively avoiding time deviations and ensuring accurate execution of functions such as scheduled broadcasts.
- *Large Built-in Storage: 8GB of built-in storage allows for pre-installation of music, promotional messages, and other audio content, eliminating the need for external storage devices and meeting daily needs for continuous audio playback.
- *Diverse Automatic Broadcasting: Supports three core functions: scheduled broadcasting, automatic broadcasting, and loop broadcasting. Broadcast schedules can be preset as needed, enabling unattended automatic operation and significantly improving broadcasting efficiency.
- *Remote Microphone Adaptation: Supports network connectivity and can be adapted to remote microphones for long-distance broadcast control.
- *One-Click Factory Reset: Equipped with a one-click factory reset function for quick and easy reset, reducing maintenance costs.

Specification

AUX1/AUX2/DVD/SAT Input Sensitivity	350mV/10k Ω
MIC1/MIC2 Input Sensitivity	5mV-350mV/600 Ω
EMC Input Sensitivity	775mV/10k Ω
Emergency Call Microphone (PTT)Input Sensitivity	10mV
Remote Microphone Input	1-channel
Communication Method	RJ4 interface, TCP/I protocol
4-Channel Output Level	1V/600 Ω ×4
Frequency Response	Line: 80-16kHz (+1/-3dB), Microphone: 200-10kHz (+1/-3dB)
Tone	Bass: $\pm$ 10dB at 100Hz / Treble: $\pm$ 10dB at 10kHz
Phantom Power	48V ($\pm$ 2V)
Power Cut-off Output	24V/0.5A
Channel Priority	Priority: PTT > EMC > Microphone paging > Emergency task (microphone alarm) > Scheduled task > Live playback
Harmonic Distortion	$\leq$ 0.5%
Microphone Signal-to-Noise Ratio	$\geq$ 70dB
Line Signal-to-Noise Ratio	$\geq$ 80dB
Power Consumption	21W
Supply Voltage	~ 110V-240V
Dimensions (W×D×H)	484×252×144mm
Weight	5.4kg