

FairHD Series



Highly Integrated All-in-one full-featured unit

Audio Processing Built-in mixing and automatic volume balancing

Graphics & Subtitles Broadcast-grade graphics editing and overlay

Information Security From file stream inspection to encrypted storage

Safe & Reliable 7×24 hours unattended broadcast operation

FairHD Series

Product Overview

Next-Generation Professional HD Integrated Automatic Playback

The Sobey FairHD HD Integrated Automatic Playback System is a full-featured HD automatic playback device designed for municipal/county-level converged media centers, enterprise TV stations, IPTV operators, and similar organizations. It delivers fault self-diagnosis, automatic emergency switchover, encrypted content storage, and other core capabilities to ensure highly stable and reliable broadcast operations. The system covers the entire workflow: material inspection & ingest, playlist scheduling, graphics editing & overlay, and final output. It supports channel broadcast, internal training playback, multi-channel content distribution, and other scenarios.

Key Features

Graphics Overlay	Playback Control	Program Scheduling	AD Scheduling	Automatic QC
Manual Review	Automatic Ingest	File Upload	File Inspection	Backup Check
Backup Management	Data Statistics	User Management	Rights Management	System Configuration

Key Features

All-in-One Architecture: Single Device Supports the Entire Broadcast Workflow

- Full Functionality, Ready to Use Out of the Box**

Adopts an all-in-one integrated architecture, where all application modules required for automatic playback are highly integrated into a single device.

- **Simplified Workflow, Full Control at a Glance**

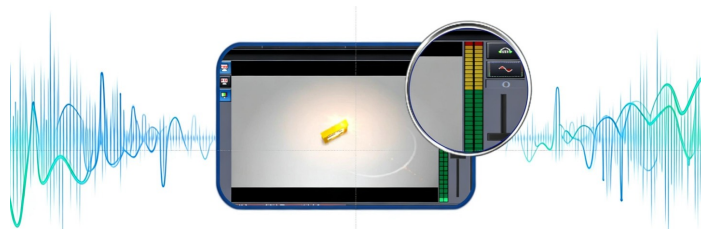
One device covers the entire workflow: content preparation, playlist scheduling, secure broadcast, and signal distribution.



- **Built-in Audio Engine: No Need Separate Audio Processor**

Automatically adjusts output levels in real time to adapt to different materials and broadcast signal sources, ensuring consistent and stable playback volume.

Performs real-time audio mixing and stereo synthesis, guaranteeing a stable soundstage for the final output signal.



- **Built-in Graphics Editing: No Separate Character Generator Required**

The built-in professional graphics editing module supports real-time subtitle modification and one-click on/off screen. It covers four graphics application scenarios: bound graphics, default graphics, independent graphics, and instant graphics. It supports simultaneous overlay of animated/static logos, left-to-right crawlers, clocks, tickers, and other subtitle elements, meeting the requirements of professional broadcast subtitling.



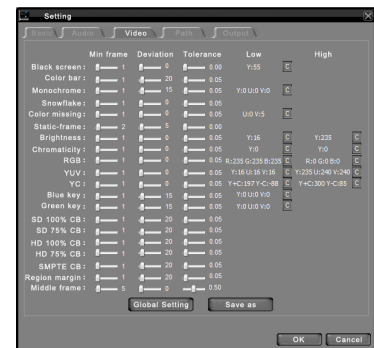
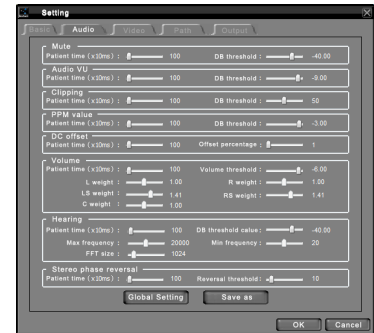
Comprehensive Safeguard Mechanisms to Ensure Content Security

- File Stream Inspection for Broadcast Safety at the Source**

Supports mainstream formats including TS, MPG, MXF, MP4, and complies with the TR 101 290 standard.

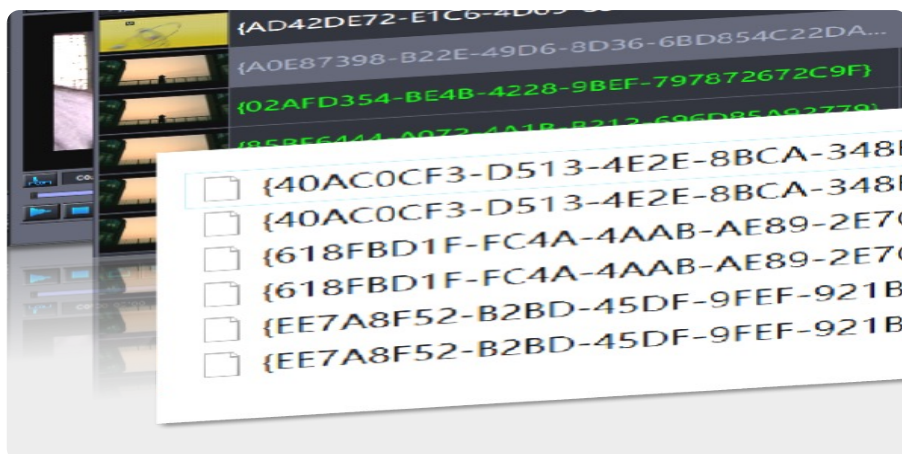
Supports three-level automatic inspection with rich standardized test items, as well as custom test configurations, to meet diverse and personalized broadcast content quality control needs.

Strictly enforces the “inspect first, ingest later” principle, automatically blocking materials that fail quality checks and preventing problematic content from entering the broadcast system.



- Encrypted Storage of Ingested Materials to Prevent Malicious Tampering**

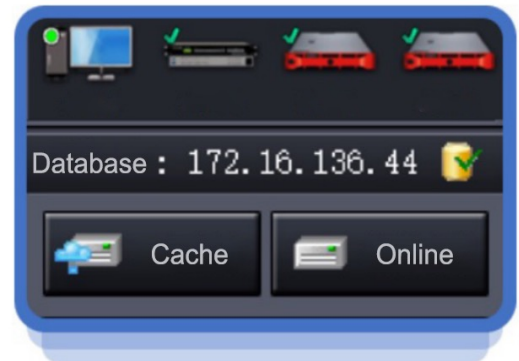
When ingested, materials are automatically classified and stored by media type (video/audio), and encrypted using a proprietary encryption mechanism. This ensures that files can only be parsed and played by dedicated software, preventing malicious file replacement.



Stable Operation & Comprehensive Monitoring for Broadcast Safety

- Supports real-time monitoring of the broadcast server status, switcher/matrix control status, main/backup server connection status, and database connection status, with abnormal alarms to ensure broadcast safety.

Hardware resource usage remains stable even after long-term operation; the user interface responds smoothly, and hard disk signals/relay signals output stably, meeting the requirement for 7×24 hours continuous broadcast operation.



Scenarios



Converged Media Centers



Enterprise TV Stations



IPTV Operators



Media Content Playback

FairHD Series

Type	FairHD-A112	FairHD-A122	FairHD-A212	FairHD-A222
Max Channels	2-channel single-path SDI output	2-channel M/B SDI output	2-channel single-path TS output	2-channel M/B TS output
Node Count	1	2	1	2
Input Interface	REF x 1	REF x 2	Gigabit Ethernet x 4	Gigabit Ethernet x 8
	3G SDI x 1	3G SDI x 2		
Output Interface	3G SDI x 2	3G SDI OUT x 4	Gigabit Ethernet x 4	Gigabit Ethernet x 8
	HDMI x 1	HDMI x 2		
Output Signal Format	1080 50i			
Output Video Coding	Uncompressed		Mpeg2, H.264	
Output Audio Coding	Uncompressed		MP2, AAC, AC3	
File Video Coding	MPEG1, MPEG2, H.264, H.265			
File Audio Coding	MP2, MP3, AAC, AC3			
Resolution	720×480, 720×576, 1280×720, 1920×1080, 3840×2160			
Container Formats	TS, MPG, MXF, MP4, AVI, RMVB, VOB, MKV			
Material Ingest	Manual / hot-folder ingest; background transcoding & QC			
Playback Modes	Sequential, timed, timed insertion, loop, trigger, etc.			
Graphics	Real-time overlay: animated logo, animated corner, scrolling text, real-time clock, countdown clock, news ticker			
Mixed Playback	SD/HD multi-format mixed playback			
Audio Level	Real-time level adjustment & mixing			
Output Preview	On-software real-time preview of output & relay signals			
Real-time Monitoring	Channel, storage, peripheral status monitoring; audio-visual alarm			
Playback Statistics	Automatic statistics of broadcast materials and graphics: play count, play duration and play time			
Playlist Print	Supports single-day / batch printing of program schedules and customizable print templates			
General Parameters	Dimensions (W x H x D): 446 mm x 88 mm x 808 mm			
	Weight: 39.5 kg (max)			
	Power: 850 W			