

Slow Motion Highlight Replay System



Patented High-speed AMFS Storage

Dual-work Production Multiple Scenarios

Up to 8 Channels 4K/HD Signals Frame-level Precise Production

High-speed Camera Access Ultra-smooth Slow-motion Playback

RenderFlow Distributed Video Rendering Architecture Flexible Expansion&Low-latency Response

Slow Motion Highlight Replay System

☆ Product Overview

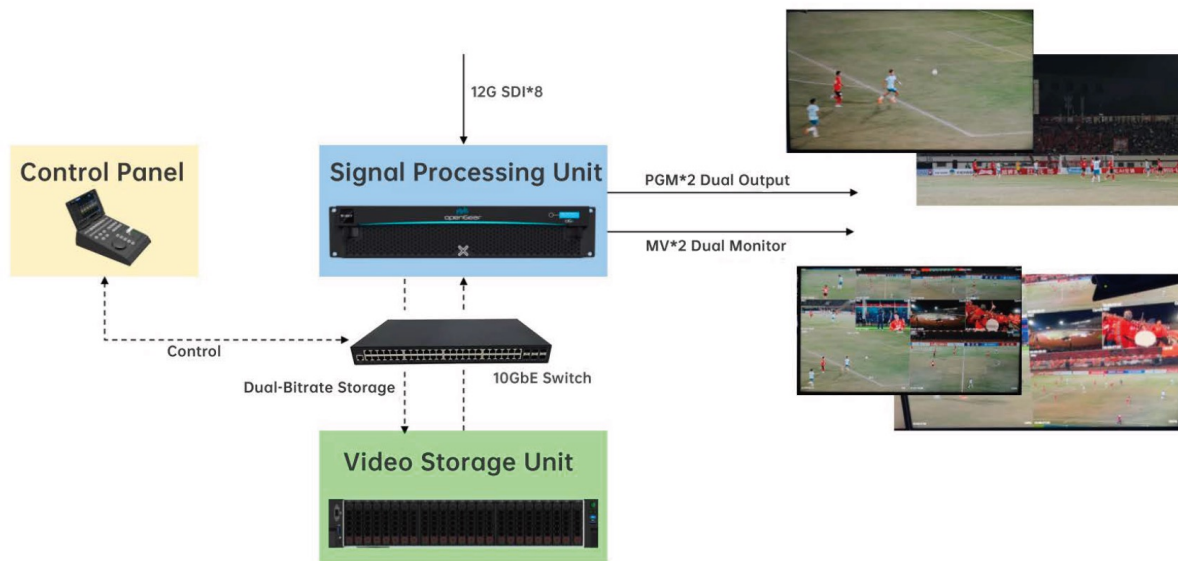
Sobey Mediavate slow-motion replay devices adopt embedded pure hardware and AMFS storage architecture. It ensures live-event-level high stability at the underlying layer with full domestic independent control. Powered by RenderFlow distributed video rendering framework, it supports multi-channel highlight replay and low-latency operation response.

- Single unit supports 8-channel 4K slow-motion replay.
- Support Dual-station production, suitable for multiple scenarios.
- Supports high-speed camera access
- Supports direct synthesis and local export after recording, with plug-and-play disk access.



⚙ Product Architecture

- The slow-motion replay system adopts a modular, all-hardware distributed three-module architecture, including signal processing, video storage and dedicated control panel. 10G network delivers low-latency interconnection and collaborative operation. Practically deployed in provincial sports live events and well recognized by clients.



✓ Scenarios

Large-scale Sports Live Broadcast

- Featuring fast pace and dense key moments such as goals, fouls and sprints, large sports events require full multi-camera coverage with high demands on real-time, precise slow-motion playback and multi-operator collaboration.

The system supports synchronous 8-channel 4K/HD capture and frame-accurate cue playback for quick key frame positioning. Dual-station collaboration is available for real-time replay and highlight editing, meeting directors' on-demand calls and enhancing live production professionalism.



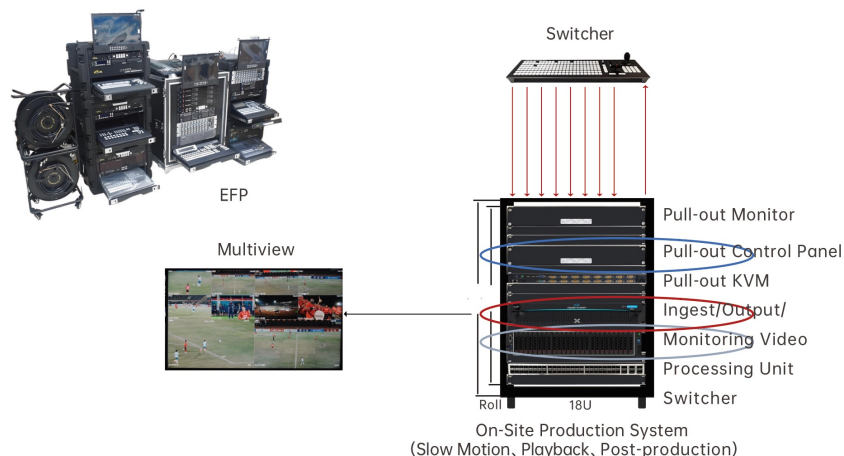
Variety Shows & Large-scale Events Production

- Diverse programs including stage performances and interactions capture artists' subtle expressions and movements, with rapid highlight output for live insertion and social media release. It supports dual-bitrate synchronous recording: high bitrate for broadcast-grade slow motion, and low bitrate for fast highlight editing. 16 built-in multi-view layouts enable real-time multi-camera monitoring. Quick material splicing and playlist playback fully meet instant and flexible production needs for variety shows and large events.



On-site Portable Production

- Variable outdoor venues feature limited space, demanding rapid deployment, high portability, stability and signal compatibility. The 18U flight case with rollers and pull-out panel allows plug-and-play quick setup. It adapts to high-frame-rate cameras and multi-format signals, realizing independent recording, slow motion production and PGM output, ideal for outdoor and regional event production.



Slow Motion Highlight Replay System

I/O Ports		
Video Input	SDI	8 x 4K or HD
Video Output	SDI (Loop)	8 x 4K or HD
	SDI (PGM)	2 x 4K or HD
	SDI (MV)	2 x 4K or HD
Audio Input	Digital Audio	8 x AES 16 Channel
LTC	2 x LTC In	
REF	2 x REF In, 2 x REF Out	
Control Interface	1 x RS232	
Internet In	2x1G (admin), 10G x2 (Media Sharing)	
Video Format		
4K	3840 x 2160 60p/59.94p/50p	
HD	1920 x 1080 60p/59.94p/50p/59.94i/50i	
Storage		
Storage Capacity	20-80TB (Support Disk Overwrite)	

Equipment Composition

Signal Processing Unit



Ingest/Process/Output/Monitoring
2U Standard OpenGear

Video Storage Unit



DDR Process/Storage
2U Standard Server with
Redundant Power Supply

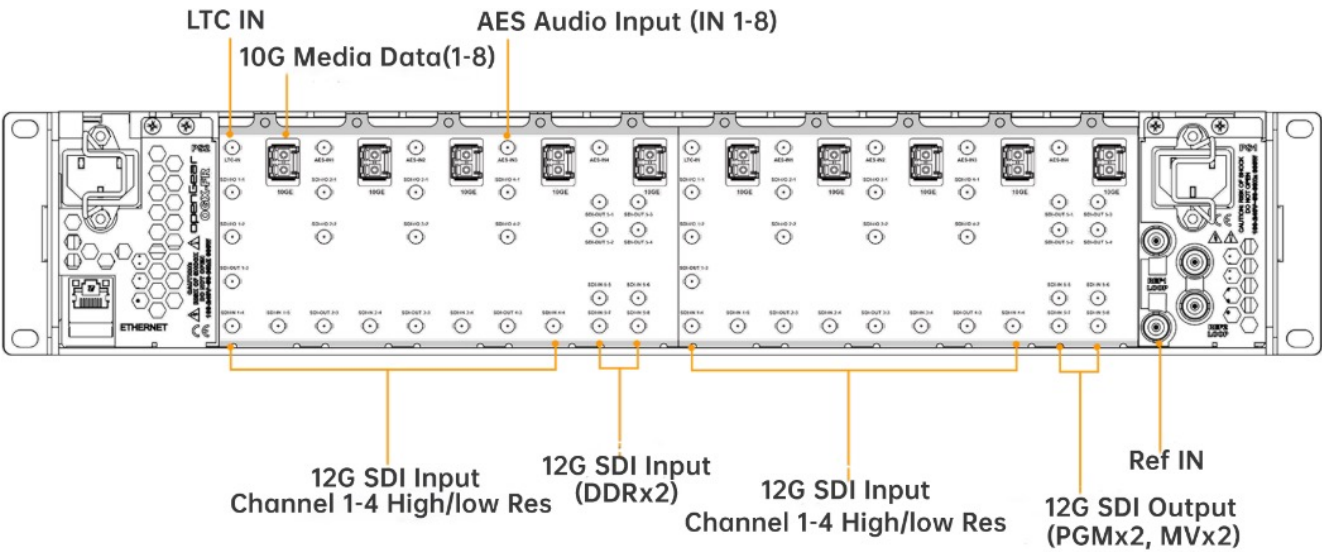
Slow Motion Operation Panel



Supporting Control Panel
Slow Motion Replay & Highlight Production

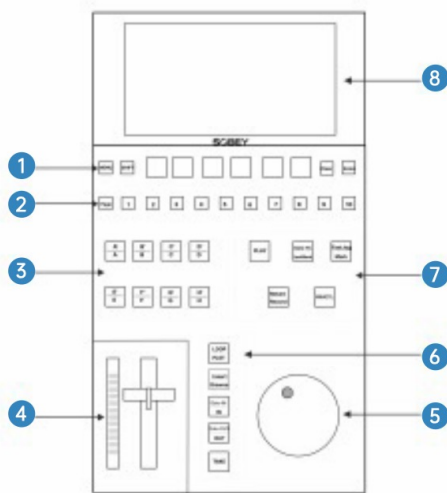
Equipment Interface

Chassis



Panel Function Area

Control Panel



- 1 Setting and Custom
- 2 Material Storage and Access
- 3 Camera Selection
- 4 Slow Motion Speed Control
- 5 Frame-level Jog Dial
- 6 Marker Editing
- 7 Playback Core Control
- 8 7-inch HD Display

- Full area with 3 modes, continuous recording
- Support Type-C/USB/422/LAN, multi-station mode
- T-Bar Detachable, Custom Key Support Free Function Definition

Main Function

Supports up to 8 channels of 4K/HD synchronous signal acquisition, with frame accurate In/Out marking.

Patented high-speed AMFS frame-level storage, supporting clip management, retrieval and instant editing.

Independently developed FPGA IP Core for such as XAVC, delivering high-performance, low-latency and highly stable hardware encoding and decoding.

High-speed camera access for ultra-smooth slow-motion playback.

Multi-station support: One main unit connects 2 operation panels for multi-operator collaboration.

Dual independent multi-view output for diverse monitoring needs.

Built-in 16 multi-view layouts, with status and information monitoring.

Hardware architecture, 7×24-hour stable operation.

Support variable playback and dynamic replay control; smooth slow-motion adjustment via T-bar.

Supports storage of over 5,000 clip markers.

Supports 100+ playlists, one-click highlight export.

Supports direct synthesis and local export after recording, with hot-swappable storage access.

Supports cascading for expanded signal channels.

Professional control panel with studio-grade operation feel.

Chassis Configuration

Slot Quantity

20

Power Supply

100V to 240V AC, 50/60 Hz

Power Consumption

600W

Temperature Range

0°C - 40°C

Dimension (mm)

Digital Audio

Redundant Power Supply

Panel

Dimension (mm)

200 (width) × 272 (depth)