



# HD Recording and Broadcasting Unit

# ◆ HD recording and broadcasting unit

## GX-RS102-C



### ◆ Basic Functions

- ◆ Support synchronous processing of 8 channels full HD 1080P signals, and combine video recording, live broadcast, real-time broadcast and on-demand broadcasting;
- ◆ Based on embedded Linux system, the program is solidified in the built-in chip, stable and efficient, and can be powered off at any time and powered on for a long time.
- ◆ The front panel with 3.5-inch LCD screen shows operating status, with control and setting functions
- ◆ 3.5mm port supports audio signal input and output;
- ◆ Support single screen, picture-in-picture, two-screen and other screen combinations, the screen layout can be customized;
- ◆ Support 6 channel SDI input, compatible with 3G-SDI, HD-SDI, SD-SDI;
- ◆ Support 5 types of signal input: 1DVI / HDMI (4K) / VGA / YPbPr / CVBS;
- ◆ Support 1 channel network stream access with maximum 1080P60 RTSP;
- ◆ Support HDMI (4K) / VGA high-definition video output;
- ◆ Support RS-232 interface, can be set as network transparent serial port or local serial port;
- ◆ Support USB3.0 recording, external mobile hard disk or U disk (capacity needs  $\geq 16G$ ) can be connected;
- ◆ Support recording files to the network storage server for centralized storage;
- ◆ Support subtitle and transparent logo overlay function;
- ◆ Support title, ending overlay function;
- ◆ Support RTMP streaming, RTSP streaming, HTTP streaming, TS streaming real-time network release;
- ◆ With H264 encoding format;
- ◆ Built-in web service, support remote broadcasting, watching video, operating equipment, downloading recording file by webpage;
- ◆ 1080P HD video resources and guide pages can be recorded at the same time, which is convenient for later editing;
- ◆ Perfectly interface with the media resource management platform;
- ◆ Provide SDK interface, other systems can be directly docked control;
- ◆ Support mobile phone/tablet APP to watch live broadcast and VOD(video on demand)
- ◆ Standard shelf chassis, suitable for engineering installation.

## Technical parameter

SDI input	6-channel HD-SDI video input, 1080p@60fps, BNC interface 1.0Vp-p, 75Ω
Video input	1 channel DVI-I interface, compatible with DVI/HDMI/VGA/YPbPr/CVBS signal, up to 1080@60fps
Network stream input	1 channel RTSP/RTMP/TS/HTTP stream input, up to 1080@60fps H264 video stream/AAC audio stream decoding
Video output	1 channel VGA, up to 1080@60fps; 1 channel HDMI, up to 3840×2160@30fps
Audio input	1 line input, 2 SDI/HDMI built-in input
Audio output	1 line output, 1 line HDMI output
Network interface	RJ45 interface, 10M/100M/1000M, adaptive Ethernet port
USB	1 USB3.0 interface, 1 USB2.0 interface
RS232	3 RS-232 ports
Video coding	H.264, dual stream output, code rate 32Kbps-40Mbps can be customized
Audio compression	AAC encoding, audio sampling rate 48KHz, code rate 16kbps-256kbps can be customized
Package mode	MP4
Support protocol	Built-in rtmp server function, RTSP/RTMP/TS/HTTP
Remote access	Built-in WEBServer, support remote browsing, configuration, upgrade
Hard disk storage	Built-in 3.5-inch 2TB hard drive (standard configuration), the largest optional 16T hard drive
Working temperature	-10~60°C
Working humidity	≤95%
Power input	AC100~240V
Power consumption	25W
Product size (W×D×H)	440×210×88mm



# HD Recording and Broadcasting Unit

## GX-RS103-C



### Basic Functions

- Based on embedded Linux system, the program is cured in the built-in chip, stable and efficient, can be powered off and on for a long time at any time
- Synchronous processing of 6- channel video signal, the perfect combination of video recording, live streaming, real-time guide, on-demand
- Support 5-channel HDMI input, of which 2 channels support up to 4k resolution, 3 channels support up to 1080P60, support 4k resolution live, recording and on-demand
- Support 1-channel rtsp/ts stream decoding access, supporting up to 4k resolution, decoding stream can be recorded after the guide, live and on-demand
- Support HDMI, VGA high-definition video output, HDMI support 4K@30, backward compatible with 1080P60
- Support USB3.0 recording, can be connected to mobile hard disk or U disk
- With a USB2.0 interface, without the need for networking, connected to the mouse can be local playback and file export and other operations
- Front panel with LCD, can intuitively display the operating status of the device
- with 1 USB2.0 interface, no need to connect to the Internet, you can directly control local playback and file export operations by connecting a mouse
- 3.5mm interface, support audio signal input and output
- Support single screen, picture-in-picture, two-screen and other screen combinations broadcast, screen layout can be customized
- Support RS-232 interface, which can be set as network transparent serial port or local serial port
- Support automatic video recording, automatic hard disk cycle overwrite, support automatic segmentation recording, completely realize unattended automatic recording and broadcasting
- Recording process support MP4 recording real-time protection, power failure file can be automatically restored
- Recording process can be synchronized with the video code pushed to the recording resource management server, live platform, to achieve unified management of resources, live, on-demand management
- Video files support ftp automatic upload to the specified account and password ftp server, to achieve centralized storage support recording files to network storage server
- Support subtitle overlay function
- Support the overlay function of opening and closing credits
- Support transparent label and adjustable position of label
- Support overlay of title, title picture and background picture
- Support rtmp/http ts/udp ts/rtsp live protocol, embedded rtmp server function
- Support browser plug-in-free live streaming, support html5 on-demand
- Built-in web service, remote guide, view video, operation equipment, download recording files through the web page
- Support 1080P HD video resources and guide page recording at the same time, convenient for post-editing
- Perfect docking with media resource management platform
- Provide SDK interface, other systems can be directly connected to the control
- Support mobile phone/tablet APP access
- Adopt standard shelf chassis, suitable for engineering installation

## ◆ Technical parameter

Video Input	5-channel HDMI video input, of which 2-channel supports up to 3840×2160@30fps, backward compatible with 1080P60, 3-channel supports up to 1080P60
Network stream Input	1-channel RTSP/TS stream input, support H265/H264 video stream/AAC audio stream decoding, up to 3840×2160@30fps
Video Output	2-channel HDMI interface output, supporting up to 3840×2160@30fps; 1-channel VGA interface output, supporting up to 1080@60fps
Audio Input	1-channel linear input, 1-channel HDMI embedded input, 1-channel SDI embedded input
Audio Output	1 linear output, 1 HDMI embedded output
Network Interface	RJ45 interface, 10M/100M/1000M, adaptive Ethernet port
USB	1 USB3.0 interface, can be connected to mobile hard disk or U disk; 1 USB2.0 interface, can be connected to mouse and touch screen
RS232	2 RS-232 interface
Video Encoding	H.265 MP5.1;H.264 HP5.1/MP/BP, code rate 128Kbps~40Mbps can be customized, 1~60 frames can be customized
Audio Compression	AAC encoding, audio sampling rate 48kHz, code rate 16Kbps~256Kbps customizable
Encapsulation mode	MP4
Supported Protocols	Support RTMP push stream, RTMP SERVER, RTSP, TCP stream, HTTP, FTP
Remote Access	Built-in WEBServer, support remote browsing, configuration, upgrade
Hard Disk Storage	Built-in 3.5-inch 2TB hard disk (standard), maximum optional 16T hard disk
Power Input	AC100~240V
Power Consumption	≤25W
Dimension (W×D×H)	441×210×44mm
Product Weight	1Kg
Operating Temperature	-10~60°C
Working Humidity	≤95%

# HD Recording and Broadcasting Unit

## GX-RS104-C



### Basic Functions

- Based on embedded Linux system, the program is cured in the built-in chip, stable and efficient, can be powered off at any time and turn on for a long time
- Synchronized processing of 6-way video signal, perfect combination of video recording, live broadcast, real-time guide and on-demand
- Support 4-channel SDI input, compatible with 3G-SDI, HD-SDI, SD-SDI signal
- Support 1-channel HDMI input, up to 4k resolution, resolution backward compatible, support 4k resolution live, recording and on-demand
- Support 1-channel rtsp/ts stream decoding access, support up to 4k resolution, decoding stream can be recorded after the guide, live and on-demand
- Support HDMI, VGA high-definition video output, HDMI support 4K@30, backward compatible with 1080P60
- Support USB3.0 recording, can be external mobile hard disk or U disk (capacity  $\geq$  16G)
- With a USB2.0 interface, no need to network, connect the mouse can directly control the local playback and file export operations
- Front panel with LCD, can intuitively display the operating status of the device
- 3.5mm interface, support audio signal input and output
- Support single screen, picture-in-picture, two-screen and other screen combinations, the screen layout can be customized
- Support RS-232 interface, which can be set as network transparent serial port or local serial port
- Support automatic video recording, automatic hard disk cycle overwrite, support automatic segmentation recording, completely realize unattended automatic recording and broadcasting
- Recording process support MP4 recording real-time protection, power failure file can be automatically restored
- Recording process can be synchronized with the video code pushed to the recording resource management server, live platform, to achieve unified resource management, live, on-demand management
- Video files support ftp automatic upload to the specified account and password ftp server to achieve centralized storage support recording files to the network storage server
- Support subtitle overlay function
- Support the overlay function of opening and closing credits
- Support transparent label and adjustable position of label
- Support overlay of title, title picture and background picture
- Support rtmp/http ts/udp ts/rtsp live protocol, embedded rtmp server function
- Support browser plug-in-free live streaming, support html5 on-demand
- Built-in web service, remote guide, view video, operation equipment, download recording files through the web page
- Support 1080P HD video resources and guide page recording at the same time, convenient for post-editing
- Perfect docking with media resource management platform
- Provide SDK interface, other systems can be directly connected to the control
- Support mobile phone/tablet APP access
- Adopt standard shelf chassis, suitable for engineering installation

## ◆ Technical parameter

Video Input	1-channel 3G-SDI video input, 1080p@60fps, BNC interface 1.0Vp-p, 75Ω
	1-channel HDMI video input, up to 3840×2160@30fps, backward compatible with 1080P60
Network stream Input	1-channel RTSP/TS stream input, support H265/H264 video stream/AAC audio stream decoding, up to 3840×2160@30fps
Video Output	2-channel HDMI interface output, support up to 3840 × 2160 @ 30fps; 1-channel VGA interface output, support up to 1080 @ 60fps
Audio Input	1-channel linear input, 2-channel HDMI embedded input, 1-channel SDI embedded input
Audio Output	1 linear output, 2 HDMI embedded output
Network Interface	RJ45 interface, 10M/100M/1000M, adaptive Ethernet port
USB	1 USB3.0 interface, can be connected to mobile hard disk or U disk; 1 USB2.0 interface, can be connected to the mouse
RS232	2 RS-232 interface
Video Encoding	H.264 MP;H.264 HP5.1/MP/BP, code rate 128Kbps~20Mbps can be customized, 5~60 frames can be customized
Audio Compression	AAC encoding, audio sampling rate 48kHz, code rate 16Kbps~256Kbps customizable
Encapsulation mode	MP4
Supported Protocols	Support RTMP push stream, RTMP SERVER, RTSP, TCP stream, HTTP, FTP
Remote Access	Built-in WEBServer, support remote browsing, configuration, upgrade
Hard Disk Storage	Built-in 3.5-inch 2TB hard disk (standard), maximum optional 16T hard disk
Power Input	AC100~240V
Power Consumption	≤25W
Dimension (W×D×H)	441×210×44mm
Product Weight	1Kg
Operating Temperature	-10~60°C
Working Humidity	≤95%



# HD recording and broadcasting unit

## GX-RS401-S



### Basic Functions

- The system adopts Linux operating system, equipped with industry-leading audio and video processing technology and artificial intelligence analysis strategy, built-in recording, live broadcast, on-demand, director management, storage, seamless switching and other functions
- Embedded hardware architecture, the system is stable and reliable, supporting 7×24 hours of work
- Realize the synchronous processing of 5-channel full HD 1080P signals, and perfectly combine video recording, live broadcast, real-time guidance, on-demand, playback and download
- Support single screen, picture-in-picture, two-split screen, three-split screen, four-split screen, six-split screen, etc.
- Adopt free recording and broadcasting mode, which has the advantages of traditional movie mode and resource mode, and the movie mode and resource mode can work at the same time
- Supports two directing modes: automatic directing and manual directing
- Support 4 channels of SDI signal input, compatible with 3G-SDI, HD-SDI, SD-SDI signals
- Support 2 channels DB9 interface input, compatible with VGA/YPbPr/CVBS -IN signal, up to 1080P
- Support 2 channels of HDMI signal input, HDMI1 supports up to 4K30, HDMI2 supports up to 1080P60
- Support 1 channel up to 1080P30 RTSP network stream access
- Support 2 channels MIC audio input, with 48V phantom power supply, 3-way stereo left and right channel input
- Optional audio processing board: realize adaptive acoustic feedback cancellation AFC, echo cancellation AEC, automatic noise reduction and suppression ANS, variable sound processing, arbitrary matrix mixing and grouping, etc.
- Support 2 channels of HDMI output, 1 channel of VGA output, up to 4K
- Support 2 channels of balanced audio output, 1 channel of stereo left and right channel output, and 1 channel of 3.5mm monitor output
- Support 8 channels RS485/RS422/RS232 serial control, 2-way infrared IR output, 1-way infrared learning window, 2-way I/O and other interfaces
- With 4-way USB interface, it can be connected to mouse and keyboard for operation, supports U disk recording, supports U disk, mobile hard disk file import, export and backup
- Support simultaneous recording of built-in SATA hard disk and external disk
- Support 4-point MCU conference, seamlessly connect mainstream third-party MCU and terminal
- Support B/S, C/S, GUI and other multi-party management framework platforms
- Support TCP/UDP/RTSP/RTP/RTMP/ONVIF/H.323/SIP/HTTP protocols
- Available in H264/H265 encoding format
- Support WEB or client access, realize remote broadcasting, viewing video, operating equipment, downloading recording files
- Support automatic segmentation and the segmentation time can be set to realize automatic recording and broadcasting
- Support video editing function
- Support subtitle insertion function
- Support transparent station logo, station logo position adjustable
- Support title subtitle, title picture, background picture overlay
- Support one-click public network live broadcast application
- Support 12 kinds of special effect switching
- Support channel name free setting
- Support perfect docking with GONSIN media resource management platform
- Provide SDK interface, other systems can be directly connected and controlled
- Adopt 1U standard aluminum chassis, can be installed in the cabinet, suitable for engineering installation



## Technical parameter

Hardware Parameters	
System	Embedded Linux, dual-core@1.4GHz, 2GB memory
Video Input	4-way SDI, support up to 1080P60 signals 2-way VGA, compatible with VGA/YPbPr/CVBS, resolution support 800 x600 ~ 1920x 1080, 2 HDMI, HDMI1 up to 4K30, HDMI2 up to 1920x1200@60, 2 HDMI inputs support the same source audio inputs
Video Output	2-way HDMI, 1-way VGA
Audio Input	2-way MIC, 3-way stereo
Audio Output	2-way balanced, 1-way stereo, 1-way 3.5 monitor
DSP Processing	Support AEC, AFC, ANS, equalization, grouping, voice change, voice excitation, etc. (optional audio processor board with )
Control Ports	5-way RS232, 2-way RS485, 2-way RS422, 2-way IR, 2-way IO
Network	1-way master RJ45 network port, 1-way audio processor RJ45 network port
USB	4-way USB including 1-channel USB 3.0
Hard Disk	Built-in 3.5-inch 2TB hard disk (standard), the maximum optional 8T hard drive
Chassis Structure	Fixed non-plugging structure, 3 indicator lights, 1-way infrared learning
Operating Temperature	-10°C~+55°C, working temperature rise <20°C
Humidity	Storage, use of humidity:10% ~ 90%
Power Input	DC12V5A power supply
Power Consumption	≤39W
Weight	≤4kg
Product size (W×D×H)	440×290×45mm
Software Parameters	
Video Encoding Algorithm	H.265, H.264(HP/MP/BP)
Encoding Resolution	CIF,4CIF(D1),PAL,NTSC,480P,576P,720P,1080P,1920×1200,1280×800, 1440×900,1366×768,1280×1024,1024×768,800×600,3840×2160
Decoding Resolution	CIF,4CIF(D1),PAL,NTSC,480P,576P,720P,1080P,1920×1200,1280×800, 1440×900,1366×768,1280×1024,1024×768,800×600
Frame Rate	5~30 frames/sec
Code Rate	32kbps~16Mbps
Video Encoding/Channels	8-way video encoding, 4-way video decoding
Multi-Screen	2-way composite frame, multiple composite modes
Audio Coding Algorithm	G.711A、G.711U、AAC-LC
Sample Rate	8~48kHz
Code Rate	8~320kbps
Number of Audio Codecs	2-way audio encoding, 4-way audio decoding
Network Protocol	TCP/IP
Streaming Protocol	TCP/UDP/RTSP/RTP/RTMP/ONVIF/H.323/SIP/HTTP
Recording	10-way
Concurrent	10-point concurrent
Playback	Recorded file playback from output port
Switching Effects	12 switching effects
Layout	1/2/3/4/5/6/7/8 total 23 types
Public Webcasting	Support
Interactive Protocols	RTSP/H.323/SIP/RTMP
Built-in MCU	4-point 1080P30 MCU
B/S	WEB visualization management
C/S	WINDWOS, iOS
GUI	Local GUI Management

# HD recording and broadcasting unit

## GX-RS601-S

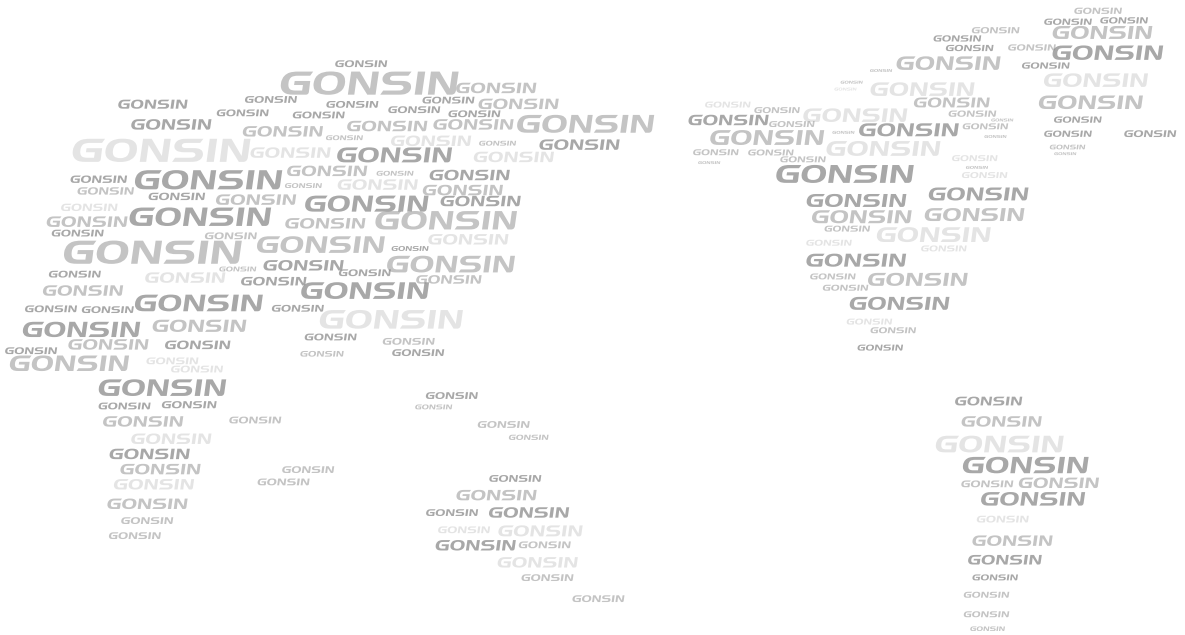


### Basic Functions

- The system adopts Linux operating system, equipped with industry-leading audio and video processing technology and artificial intelligence analysis strategy, built-in recording, live broadcast, on-demand, director management, storage, seamless switching and other functions
- Embedded hardware architecture, the system is stable and reliable, supporting 7×24 hours of work
- Realize the synchronous processing of 7 channels full HD 1080P signals, and perfectly combine video recording, live broadcast, real-time guidance, on-demand, playback and download
- Support single screen, picture-in-picture, two-split screen, three-split screen, four-split screen, six-split screen, etc.
- Adopt free recording and broadcasting mode, which has the advantages of traditional movie mode and resource mode, and the movie mode and resource mode can work at the same time
- Supports two directing modes: automatic directing and manual directing
- Support 6 channels of SDI signal input, compatible with 3G-SDI, HD-SDI, SD-SDI signals
- Support 2 channels DB15 interface input, compatible with VGA/YPbPr/CVBS -IN signal, up to 1080P
- Support 2 channels of HDMI signal input, HDMI1 supports up to 4K30, HDMI2 supports up to 1080P60
- Support 1 channel up to 1080P30 RTSP network stream access
- Support 8 channels MIC audio input, with 48V phantom power supply, 3-way stereo left and right channel input
- Optional audio processing board: realize adaptive acoustic feedback cancellation AFC, echo cancellation AEC, automatic noise reduction and suppression ANS, variable sound processing, arbitrary matrix mixing and grouping, etc.
- Support 2 channels of HDMI output, 1 channel of VGA output, up to 4K
- Support 2 channels of balanced audio output, 1 channel of stereo left and right channel output, and 1 channel of 3.5mm monitor output
- Support 12 channels RS485/RS422/RS232 serial control, 2 channels infrared IR output, 4 channels infrared learning window, 2 channels I/O and other interfaces
- With 4 channels USB interface, it can be connected to mouse and keyboard for operation, supports U disk recording, supports U disk, mobile hard disk file import, export and backup
- Support simultaneous recording of built-in SATA hard disk and external disk
- Support 4-point MCU conference, seamlessly connect mainstream third-party MCU and terminal
- Support B/S, C/S, GUI and other multi-party management framework platforms
- Support TCP/UDP/RTSP/RTP/RTMP/ONVIF/H.323/SIP/HTTP protocols
- Available in H264/H265 encoding format
- Support WEB or client access, realize remote broadcasting, viewing video, operating equipment, downloading recording files
- Support automatic segmentation and the segmentation time can be set to realize automatic recording and broadcasting
- Support video editing function
- Support subtitle insertion function
- Support transparent station logo, station logo position adjustable
- Support title subtitle, title picture, background picture overlay
- Support one-click public network live broadcast application
- Support 12 kinds of special effect switching
- Support channel name free setting
- Support perfect docking with GONSIN media resource management platform
- Provide SDK interface, other systems can be directly connected and controlled
- 1U standard aluminum chassis, front panel with a 1.5-inch full-color LCD display, support for video image preview, menu display; can be installed in the cabinet, suitable for engineering installation

## Technical parameter

Hardware Parameters	
System	Embedded Linux, dual-core@1.4GHz, 2GB memory
Video Input	6-way SDI, support up to 1080P60 signals 2-way VGA, compatible with VGA/YPbPr/CVBS, resolution support 800 x600 ~ 1920x 1080 2 HDMI, HDMI1 up to 4K30, HDMI2 up to 1920x1200@60. 2 HDMI inputs support the same source audio inputs
Video Output	2-way HDMI, 1-way VGA
Audio Input	2-way MIC, 3-way stereo
Audio Output	2-way balanced, 1-way stereo, 1-way 3.5 monitor
DSP Processing	Support AEC, AFC, ANS, equalization, grouping, voice change, voice excitation, etc. (optional audio processor board with )
Control Ports	8-way RS232, 2-way RS485, 2-way RS422, 2-way IR, 2-way IO
Network	1-way master RJ45 network port, 1-way audio processor RJ45 network port
USB	4-way USB including 1-channel USB 3.0
Hard Disk	Built-in 3.5-inch 2TB hard disk (standard), the maximum optional 8T hard drive
Chassis Structure	Fixed non-plugging structure, 3 indicator lights, 1-way infrared learning
Operating Temperature	-10°C~+55°C, working temperature rise <20°C
Humidity	Storage, use of humidity:10% ~ 90%
Power Input	DC12V5A power supply
Power Consumption	≤39W
Weight	≤4kg
Product size (W×D×H)	440×290×45mm
Software Parameters	
Video Encoding Algorithm	H.265, H.264(HP/MP/BP)
Encoding Resolution	CIF,4CIF(D1),PAL,NTSC,480P,576P,720P,1080P,1920×1200,1280×800, 1440×900,1366×768,1280×1024,1024×768,800×600,3840×2160
Decoding Resolution	CIF,4CIF(D1),PAL,NTSC,480P,576P,720P,1080P,1920×1200,1280×800, 1440×900,1366×768,1280×1024,1024×768,800×600
Frame Rate	5~30 frames/sec
Code Rate	32kbps~16Mbps
Video Encoding/Channels	10-way video encoding, 4-way video decoding
Multi-Screen	2-way composite frame, multiple composite modes
Audio Coding Algorithm	G.711A,G.711U,AAC-LC
Sample Rate	8~48kHz
Code Rate	8~320kbps
Number of Audio Codecs	2-way audio encoding, 4-way audio decoding
Network Protocol	TCP/IP
Streaming Protocol	TCP/UDP/RTSP/RTP/RTMP/ONVIF/H.323/SIP/HTTP
Recording	10-way
Concurrent	10-point concurrent
Playback	Recorded file playback from output port
Switching Effects	12 switching effects
Layout	1/2/3/4/5/6/7/8 total 23 types
Public Webcasting	Support
Interactive Protocols	RTSP/H.323/SIP/RTMP
Built-in MCU	4-point 1080P30 MCU
B/S	WEB visualization management
C/S	WINDWOS, iOS, NeoKylin
GUI	Local GUI Management



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English WeChat



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