

## Main Features

Interfaces	Model No.	MS2	MS4
	Video Input	1 CH SDI, 1 CH DVI (HDMI) input	3 CH SDI, 1 CH DVI (HDMI) Input
	Video Loop	1 CH SDI loop	3 CH SDI loop
	Video output	1 CH SDI, 1 CH DVI (HDMI)	
	Audio input	1 CH Stereo RCA Input/USB expansion	
	Audio output	1 CH Stereo RCA Output/USB expansion	
	Ethernet	2x 1000Mbps	
	USB	1 x USB 2.0 TYPE-A	
	Disk recording slot	2x 2.5 inch disk(custom)	
	HMI (Human Machine Interaction )	WEB UI or customized OLED display	
	Power supply	DC 12V 3A ( with power switch )	
	SDI	SDI signal	HD-SDI(1.485Gbps); 3G-SDI(2.97Gbps)
Video formats		1080p50/59.94/60. 1080p23.98/24/25/29.97/30. 1080i50/59.94/60 720p23.98/24/25/29.97/30. 720p50/59.94/60	
HDMI/DVI	Standard	HDMI 1.4/DVI 1.0	
	Video formats	1080p23.98/24/25/29.97/30, 1080p50/59.94/60, 1080i50/59.94/60 720p/30/50/59.94/60 and other resolutions not over 1920x1200	
Encoding	Video encoding	H.264/AVC High profile(Up to level 5.1), Main profile and baseline compatible	
	Audio encoding	AAC, G.711	
	Video encoding bitrate	256Kbps ~ 25Mbps adjustable	
	Audio encoding bitrate	AAC: 32Kbps ~ 512Kbps G.711: 64Kbps	
	IP stream input	SRT/UDP/RTMP/RTSP/RTP/HLS/HTTP	
	IP stream output	SRT/RTSP/RTMP,custom for NDI HX and SIP/HLS/HTTP/TS over UDP	
	Multi-image splitting	Self-defined splitting within 9 images and supports image-in-image	
Working Environment	Power supply	12V DC	
	Temperature	-20℃ ~ 50℃	
	Humidity	20 ~90%RH	
	Power consumption	30W Max	



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# 6

## Multi-Party Video Collaboration System

This system is consisted of two or more embedded terminals. Through simple installation and network building (auto discovery between terminals), it can realize such business functions as multi-party audio and video collaboration, recording, watermark overlay and live streaming without a Micro Control Unit (MCU) in the multi-screen split mode. It is widely applied to medical teaching, telemedical, remote learning, video conference, interactive program production and other multi-party audio and video collaboration scenarios.



255\*250\*54mm Appearance is subject to the actual product.

There are two types of terminal devices: MS2 and MS4. MS2 supports 2CH physical audio& video inputs and outputs; MS4 supports 4CH physical audio& video inputs and 2CH physical audio and video outputs (interface customization available).

Model No.	SDI Input/ Loop	SDI Output <sup>1</sup>	DVI Input/Output (HDMI/VGA Compatible)	RCA Audio Input/ Output <sup>2</sup>	Ethernet port
MS2	1/1	1	1/1	1/1	2*1000M Ethernet port
MS4	3/3	1	1/1	1/1	2*1000M Ethernet port

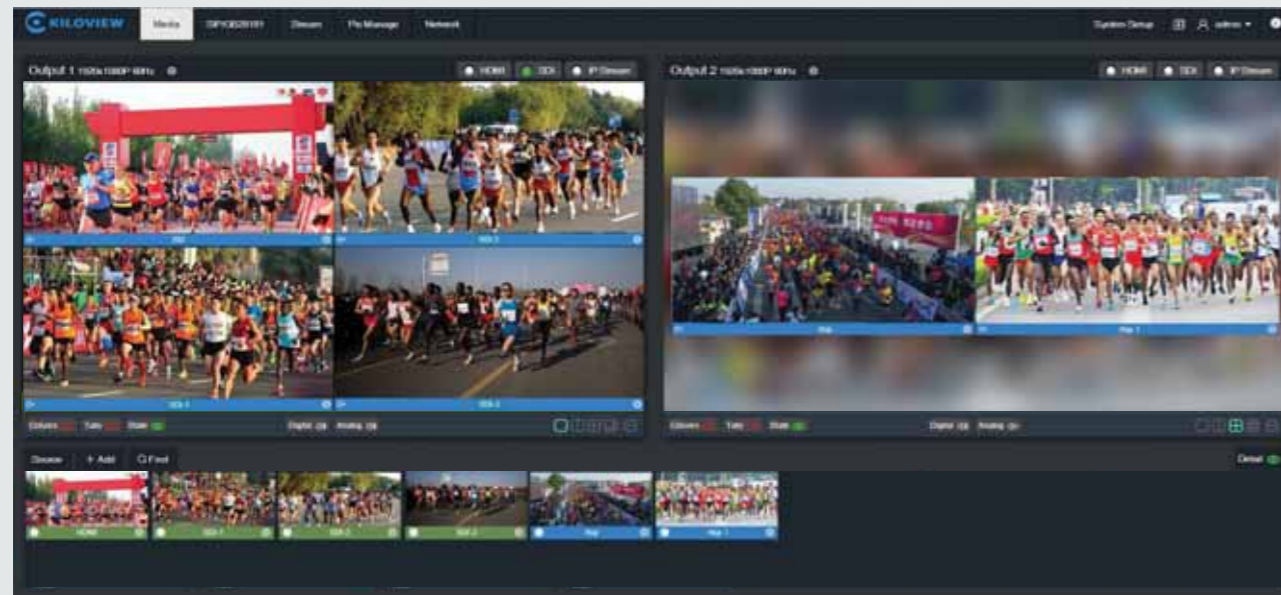
**Feature 1** SDI and DVI interface output the same or different contents.

**Feature 2** RCA audio is freely selected and embedded into any physical input interface.

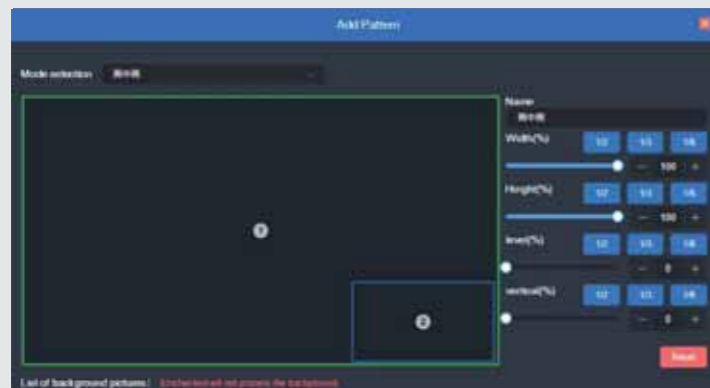
# Functions Introduction

## 1) Multi-party audio and video collaboration

All terminals support local audio and video (auto access<sup>3</sup>), remote terminal audio and video (auto discovery<sup>4</sup>), and other IP streams access such as UDP/RTMP/RTSP/RTP/HLS/HTTP (manual adding). It supports up to 32CH video streams. 9CH videos of them are switched and displayed arbitrarily<sup>5</sup>, and all audios enable self-defined usage including on/off/mixed, to realize audio and video interaction among different terminals.



Multi-party conversation diagram



Self-defined windows diagram

### Feature 3

Cropping, rotating(portrait), color adjustment and Image noise reduction for local video.

### Feature 4

Auto discovery among local network terminals while under Internet it is performed through KiloView integrated management platform.

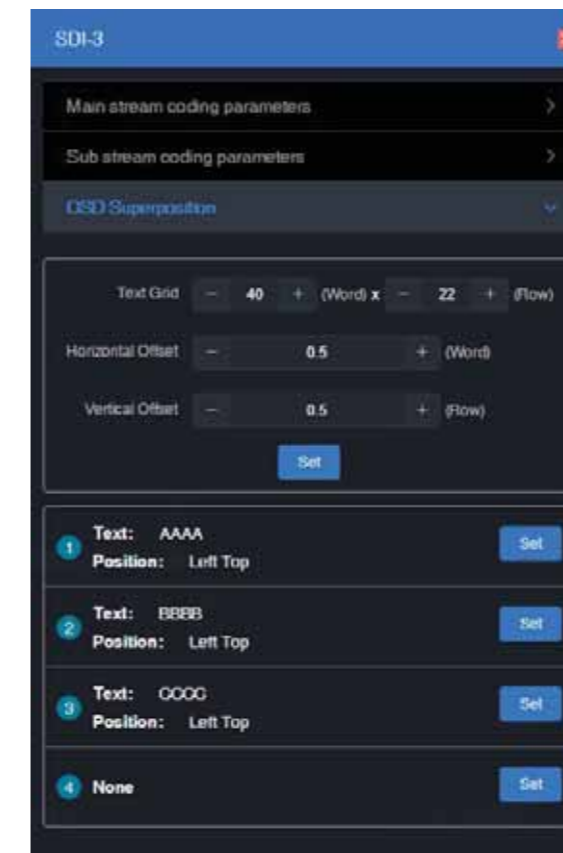
### Feature 5

User-defined display with window numbers, position and size within 9 screens. Pop-up play supported in full screen mode.

## 2) Live streaming and other streaming service

Multi-screen session video with the mixed audio can be displayed on the screen, and RTSP/RTMP streaming services also available<sup>6</sup>.

Session image can overlay Logo/background/image/text and custom window border display available.



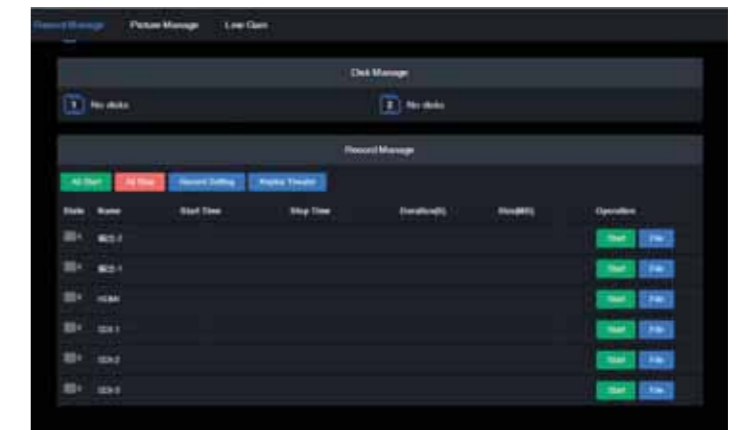
Overlay diagram

### Feature 6

IP input or output streams from all terminals can be customized in special protocols including SIP/NDI|HX.

## 3) Recording

USB expansion disk, recording of local input video and two physical output videos<sup>7</sup>, online playback and download of recording files. Built-in dual 2.5 inch SATA hot-plug disk port, disk replacing during recording. NAS storage available for customization.



Recording function diagram

### Feature 7

Custom for video recording of any participant or third-party access

## Advantages

- Cost-effective**  
It can be realized without MCU, which is convenient for deployment. Multi-party audio and video interaction without MCU and convenient deployment
- Powerful functions**  
Numbers of video accesses with various function of session live streaming. Full network protocols supported and many extensible functions.
- Stable and reliable**  
Consist of multi-embedded hardware, ensuring long-time stable working.
- Easy operation**  
Auto-discovery among all terminals, easy-to-use interface, equipped with OLED display. Web page remotely operated on PC/iPad/Android Pad.