Operation manual of the recording machine





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- Instructions for use

For your safety, do not expose the equipment to rain or moisture. In case of failure, do not remove the chassis. For after-sales matters, contact the manufacturer to ask professional engineers for maintenance

When recording or streaming important data, be sure to check the device connection beforehand, or perform a streaming test first, to ensure that the system can operate properly and avoid data loss

According to copyright law, recorded video or audio may not be used for purposes other than personal enjoyment without the permission of the copyright owner. Note that for live performances, shows and exhibitions, even your personal entertainment can be limited.

Live broadcast machine use precautions

- Before use, please read this manual carefully and keep this manual properly;
- Please follow the warning signs and instructions on the product;
- Before cleaning the equipment, please unplug the power plug, alcohol, thinner, insecticide or other volatile solvents, because doing so can deform the housing or damage the surface;
- Do not use this product near water;
- Do not place the product in an unstable place, such as wheelbarrow, stand, etc., to avoid serious damage to the product.

• The holes on the outside, back and bottom of this product are for heat dissipation. Do not cover or plug these holes to avoid overheating of the equipment. Avoid placing the product on the bed, sofa, blanket and other objects, beware of blocking the opening hole, do not place the product near the fire source, heating furnace or hot air outlet. Do not place this product in a closed space unless a proper vent is available;

• The power supply used in this product, please follow the mark on the power converter;

• When using the extension cord, please confirm that the total electricity/total amperage used shall not exceed the total amperage loaded by the extension cord;

• Do not insert anything into the body opening to avoid short circuit, do not spill any liquid on this product

- Please do not disassemble and repair without authorization.
- If the following situations occur, please unplug the product and consult a qualified technician;
- ① The power cord or plug is damaged or unraveled;
- 2 Liquid seeps into the product;
- ③ If the product has been soaked in rain or poured with water;
- ④ Damage caused by computer system viruses or malware is not covered by the warranty;
- The equipment is packed in the original packing box or similar packing box during

transportation, which can reduce the strong vibration of the equipment;

Product and Service Disclaimer

The information provided in this manual is intended as a guide only. At all times, KIND strives to provide correct, complete and appropriate information. However, KIND cannot exclude that some information in this manual may be incorrect or incomplete, and this Manual may contain typos, omissions or incorrect information. KIND recommends that you double-check the accuracy of the information in this document, and KIND is not responsible for any omissions or errors. Or any subsequent loss or damage caused by the information provided in the contents of this Manual, further information about the contents of this manual or products can be contacted by local offices or KIND headquarters.

三、KD-BC8HN KIND Characteristics

of the recording system

KD-BC8HN is a portable video recording machine that integrates multi-channel video capture, video stunt transfer, PTZ control, tuning and mixing, director communication, multi-channel screen monitoring screen and streaming media server.

It is not only portable, but also combines video switching and mixing functions with video surveillance and webcast, making it an all-in-one complete set of equipment for live content generation. With this product, you can eliminate the need for a variety of equipment, which greatly reduces the time and effort required to install, connect and adjust equipment.

The KD-BC8HN can seamlessly hardcut the full frame in multiple video input transitions.

This system provides the functions of mixing (overlapping), cross image transition effect, combined video and so on. You can mix videos with up to a hundred effects at once.

You can mix audio inputs from 5-way stereo and 5-way microphones. Each channel has a range of functional components, including channel faders and input gain adjustments that will allow you to adjust the quality and level of sound individually on each channel.

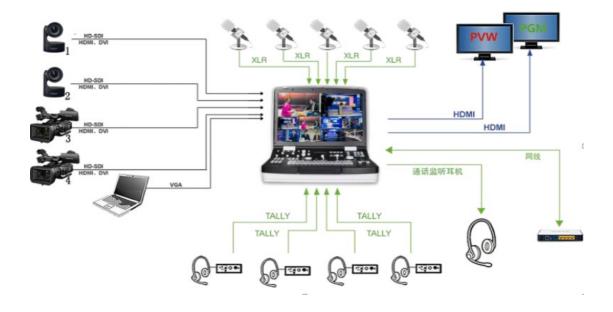
PGM footage can be streamed live.

Product specification

This system is a high performance network broadcast system, which can provide audio and video live broadcast, recording and broadcasting services based on metropolitan area network and wide area network. At present, the system has been widely used in the studio video live broadcast, quality class, distance education, news live broadcast, conference live broadcast, academic exchange and other occasions requiring audio and video live broadcast. Using modular design idea, portable live broadcast can be built according to different needs.

KD-BC-8HN
INPUT:AC110V-240V, 50~60Hz,5A; OUTPUT:12V,5A
0~40 ℃
(L*W*H) 425mm*340mm*120mm
5kg
3G-SDI*8,HDMI*4
1080/50P,1080/60P,1080/50I,1080/60I,2160/30P,2160/25P
PGM OUTPUT HDMI*2,SDI*1,PVW OUTPUT SDI*1
Stereo(L,R)IN RCA*5 MIC XLR*5
Stereo (L,R) OUT RCA×1,Balanced XLR OUT×1,Monitor Φ 3.5×1,Playback
monitorΦ3.5×1,The director calls MICΦ3.5×2
USB 2.0*2 RJ45*1
TALLY MINI XLR OUT×8,Director calls(选配)
PGM: Hardware switch signal×16 PVW: Hardware switch signal×8
Digital mixer×5, Analog mixer×5
MP4、TS、MOV
RTMP/SRT/RTSP/NDI

四、Host topology



五、Rear interface diagram



 RS485:485 control
 Audio stereo, MIC input, output
 PTZ control switch
 HDMI*4 input, SDI*8 I input
 HDMI output, SDI*2 output
 Power switch
 DCport
 MIC: 3.5 Audio input; HDMI: Video output; USB: Memory interface; TF: TF storage interface; NDI/SRT: Network interface;

port	Instructions
••••••	485 Control interface: adopts RS485 control signal and supports PELCO- D and VISCV control protocols
МІС	1 to 5 Audio input XLR Balanced analog audio input interface and Each with 48V phantom power switch (support professional microphone power supply)
L O R O	1 to 5 Audio input RCA stereo analog audio input interface (left/right channel), OUT audio output RCA stereo analog audio output interface
SDI	SDI1 to 8 Video input ports: Supports signal specifications 1920 x 1080P50 video source input
PVW PGM	PGM/PVW video output interface: Signal specifications 1920×1080P25 video source; HDMI video output interface: Signal specifications 3840×2160P25 video source
	DC power interface: 12V~5A will be provided The adapter power cable is connected to the DC power port
RESET	Power switch: Power on/off

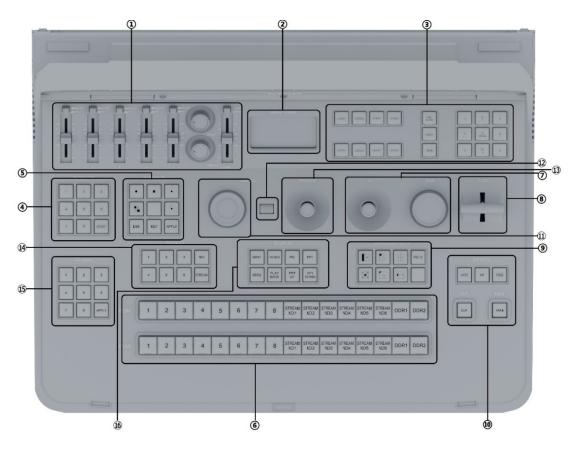


Network port: Supports firmware upgrade, software parameter debugging, live streaming, recording, NDI, and so on.

USB, TF: USB and TF storage devices can be connected to perform video file storage

六、Operation panel introduction

and operation instructions



①Mixing console, audio delay device, digital/analog audio switch key

2 Audio display

③8 Station channel address, preset bit call, speed adjustment

(4) Call switchboard (not supported for some models)

(5) Hardware and software record, stop button

6 PGM/PVW Video switchboard

7 Camera PTZ controller

(8) T-putter

(9) WIPE Transition special effects group key.4K/HD key to switch HD and 4K modes

10 Multi-mode switch key

(1) Effect regulator

12 Title shortcut

(13) Picture in picture position control key

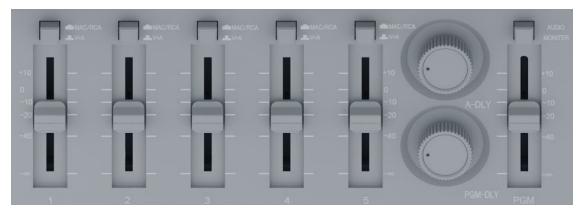
1 1-6 Premonitor window NDI and STREAM quick switch key

(15) Subtitles select shortcut keys

(16) Quick switching of local video, picture and PPT functions

Note: Switching between 4K/HD keys requires restarting the device

1.1 Detailed operating instructions:



1 to 5 channel audio gain adjustment, corresponding to the backplane 1-5 audio input, MAC/V+A digital/analog audio switch key, audio delay, PGM audio gain adjustment. PGM Mute with one click $_{\circ}$

DISPLAY SYSTEM	Audio displ channels, de		ay left	and right
CAMERA1 CAMERA2 CAMERA3 CAMERA4	FAST SLOW	1	2	3
	PRESET	4	5 MENU	6
CAMERA5 CAMERA6 CAMERA7 CAMERA3	MENU	7	8 1	9

CAMERA1-8:8 Station channel address. You can switch different stations by pressing the button.

FAST/SLOW: Control the speed of the camera, the indicator on is fast, the indicator off is slow;

PRESET: Set PRESET bit confirmation key, select any key 1 to 9, press Preset key (the indicator blinks once), the setting is successful, 9 groups of preset bits can be selected;

MENU: camera MENU key, press this key to start the MENU adjustment mode and the 2/4/5/6/8 key lights up, 2/4/6/8 represents the top, left, right and bottom four directions of the selection key, press the 5 (MENU) key once, the camera menu opens, after the setting is completed, press the menu key once, the 2/4/5/6/8 key lights off, restore the preset bit function

Note: Preset bit and camera menu functions cannot be used at the same time.



Call function panel: Click ON/OFF to open this function, a total of 8 sets of buttons, you can make calls respectively (professional call equipment is required)



The first row is the software recording, stop, and live function shortcut keys, and the second row is the local recording and stop, live, and NDI recording

DSK is the hardware subtitles open key, the indicator light is on, you can select subtitles; KEY is the shortcut key for starting the image picking, and the indicator is on to start the image picking function;

DSK and KEY are used only after the software is opened;

The first row of software record, stop and live button can be used after connecting

the software

The second row recording stop button needs to be inserted into an SD card or USB flash drive

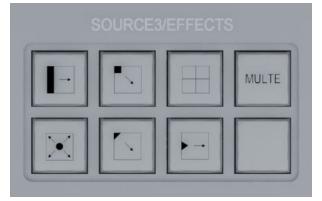
1	2	3	4	5	6	7	8	STREAM NDI1	STREAM NDI2	STREAM NDI3	STREAM NDI4	STREAM NDI5	STREAM NDI6	DDR1	DDR2
1	2	3	4	5	6	7	8	STREAM NDI1	STREAM NDI2	STREAM NDI3	STREAM NDI4	STREAM NDI5	STREAM NDI6	DDR1	DDR2

Main output screen and preview output screen source key, PGM row key main output key, that is, live output screen. The playback channel will be displayed in the PGM screen, and the PVW row key will be the preview output screen, and the preview output screen will be displayed in the preview window.

Note: Among the rows of PGM and PVW keys, the STREAM/NDI 1~DDR2 keys can be used only after the software is started;



T-push rod: The T-push rod is a manual transfer mode, and the PGM and PVW switch is completed with WIPE or fade in and fade out effects



WIPE Transition effects selection key set: 6 fixed WIPE effects selection keys, the user directly on the panel to select the WIPE effects according to the icon.



Camera PTZ controller: achieve the effect of pushing, pulling and rolling the PTZ camera position

Use the ZOOM knob to control the focal length of the camera by turning it left and right



WIPE: Switch on transfer effects mode and use with WIPE transfer keys

FADE: The fade in and Out button enables the fade in and out transition effect

CUT and TAKE button switch, can switch PGM and PVW lens, make the transition more convenient and fast

PIP: picture-in-picture function, indicator light function on

Note :WIPE and FADE cannot be used together.



MAIN is a 3.5 listening interface MONI is a 3.5 call radio interface The MIC is a 3.5 microphone port



The hardware shortcut key on the control panel can be used to APPLY the effect to the PGM window more quickly. Click the corresponding serial number to generate a preview and then click Apply to apply to the PGM



After connecting the software, you can quickly switch the premonitor window mode. Select the window value and press the NDI or STREAM key to quickly switch between NDI and STREAM



Fast switching of local materials; After connecting the software, you can use this function to control the playback of videos, pictures and PPT in the local materials in the software;

DDR1 and DDR2 represent two Windows, respectively, and the DDR1 indicator lights up to control DDR1

七, How an external computer connects to a device



Size control: Control background, large screen, TV wall size;
 3 4 You can select the contents of channel 1-8 for setting;
 5 6 can be added to a single video;

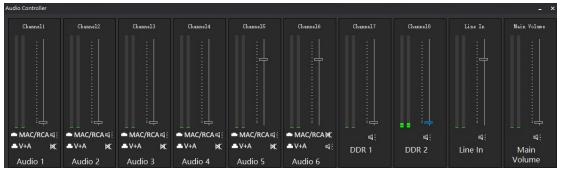
When the knob encoder on the console of the broadcasting machine enters the image picking mode, edge control can be adjusted as shown below:



Advanced config		×					
Reduce Noise:		20					
Reduce Edge:		2					
Reduce Shadow:]		10			No Signa	al	
Audio Control	Refresh Apply	Del					
	Save	Load					
	1920x1	000 -	r 160	Record	Insert	Color	IP
D U O O Set Up	1920X1	080		Manager	Text	KeyPre	Config
			-				
File name OWMV	O MP4 C) avi ()	MPEG			3500	Kbps
64 · MP3 · W	/MV9 -	Audio+	0 1	ms Video+	F 0	ms Time	Adjust
Upload Addr: rtmp://192.168.1	.1:1935/live/l	live10				Upload	Stop

Inside the advanced Settings, you can accurately repair the image picking function

9. Software mixer.



Click the horn button on the software to pop up the eight-channel audio controller. This function is mainly used for the adjustment of NDI and STREAM audio of each signal source channel. The MIC and stereo audio are subject to the equipment mixer

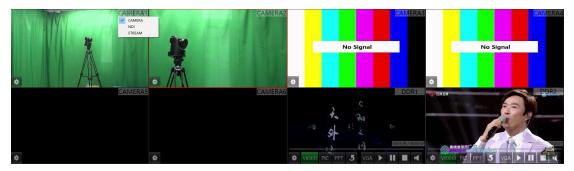
10, DDR



The DDR window of the software is mainly used to add local pictures, videos, and PPT as signal sources to switch the broadcast. Recommended formats of live broadcast images are JPG and BMP. Resolution: 1080P

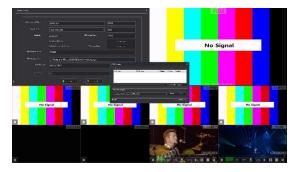
Video format support: MP4 resolution: 1080P 720P code stream size: within 5MB The PPT function system can be enabled by installing office 2013 Double-click the VGA button to enter the push-pull mode Settings

11、 Signal source setup

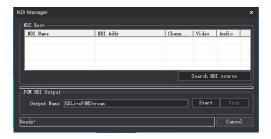


The above picture shows the eight-channel signal premonitoring interface. Since the device with the software installed cannot access the camera, the signal can only use NDI and STREAM modes, and DDR1 and DDR2 are independent footage Windows.

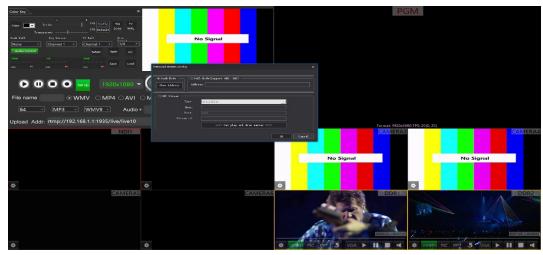
Take camera1 as an example, select NDI and click the Set button to enter the NDI function setting interface as shown in the following figure:



Search for the NDI signal source in the LAN and configure the corresponding channel address. The current channel is channel 1, so select Channel 1. The NDI signal can be generated as shown below



Select the "Set" button in the stream state to pop up the "Push and pull" stream setting window as shown below



In push mode, a mobile phone or any device with the push function can be used to push the stream in the LAN. According to the push address in the push mode, the push stream can be sent to the device as a signal source to switch the broadcast. The following picture shows the mobile phone after pushing the stream.



The pull mode means that the system can link the RTMP of a third party in the live broadcast to the software as a signal source for broadcasting switchover. The method of using this mode is to fill the address of the third party in the address bar of the pull mode (unencrypted RTMP link). Note: If the pull-down screen does not display successfully, the RTMP address may be too complex, so it is necessary to add a space URL to the address suffix.

In Stream mode, the caller and listener modes of SRT are also supported, as shown in the following figure:

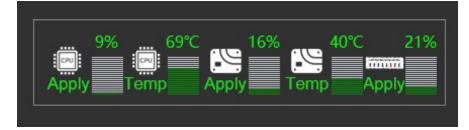


12、Synchronous correction of sound and picture

Audio+	0	ms	Video+	0	ms	Time Adjust
--------	---	----	--------	---	----	-------------

This function is mainly used to correct the problem of asynchronization of sound and picture in the process of live broadcasting, and corresponding delay time can be manually added for intervention (normally, live broadcast sound and picture are synchronized, and this function is mainly used for emergency applications. It is suggested to check the service forwarding platform to find out the problem after the live broadcasting activity is over).

13、Resource monitor

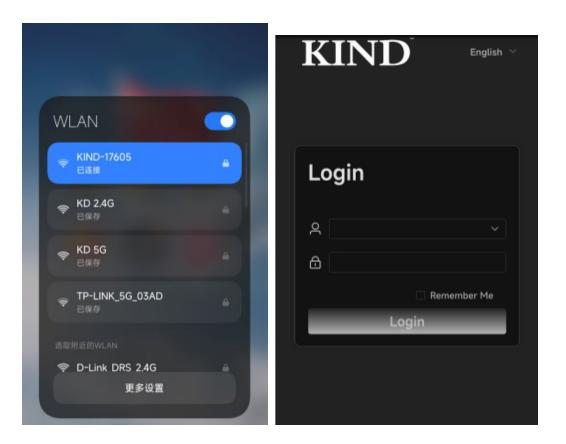


This function is used to monitor the hardware load of the software under various conditions of recording live broadcast

八、The instructions for connecting the computer to the driver

Background Settings for connecting the mobile phone

1. First, open the mobile phone and search for WIFI(the default naming format of the device is as follows, the password is 12345678). After the wireless connection is successful, open the system browser and enter the device name http://kind-.



Computer login method

Open your browser, enter http://device ID.local, and set the account password to admin As shown in the figure

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	Login							

Enter the page

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Click the Settings option to access the configuration page

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KIND	Ĵ			Live	Setting	Logout				English V KIND-17605	۵ +
 𝔅) Dashboard 𝔅) Camera → 𝔅) Video → 𝔅) Audio 𝔅) Streaming → 𝔅) Network 		13.8%	Memory		Product: NDI®; Working mi Signal Sou DC OUT: Startup time 20 Running time 0		0		9.63% 49 °C / 120.2 °F	CPU	¢
System	Network										
Version	IP Address: IP(DHCP):	192.168.0.52 On	Subnet Mask: mDNS:	255.255.255.0 KIND-17605.local	Default Gateway	192.168.0.1	MAC Address:	00:14:8c:1c:8f:01			
Firmware 1.0.2.30 WEB 0.9.44 NDI 5.5.4 SN 17605	WIFI:	Off	WIFI IP:	Nothing	WIFI MAC:	Nothing	Hotspot:	KIND-17605			
	Internet Status:	Ping	LAN Status:	Ping							
and the second	Discover	Scan									
	Camera > Tally										
	Tally Enable:	On	Tally Mode:	MANUAL							

Configuration screen: Displays the overall configuration screen

Camera configuration: PTZ Settings can select the protocol, IP address, transport protocol, port, address and other information

Tally allows you to set switches, modes and more

KINI) Ĵ			Live
⑦ Dashboard				
Camera ^	Tally Se	etting		
PTZ				
Tally	Enable			
🗈 Video 🗸	Mode	MANUAL ~		
해 Audio				
Streaming ~	Ligh	OFF RED GREEN		
器 Network	LCI	Not locked ~		
System				
Version 回 Hardware 11.1.2 Firmware 1.0.2.30 WEB 0.9.44 ← C ▲ 不安全 k	ind-17605.local/#	setting/camera/ptz		
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⑦ Dashboard				
🗇 Camera 🗠				
	PTZ Setting			
PTZ Tally	PTZ Setting	VISCA over IP		
PTZ		VISCA over IP ~		
PTZ Tally	Protocol IP Address	192.168.1.167		
PTZ Tally IP Video ~	Protocol			
PTZ Tally IPI Video ~ % Audio	Protocol IP Address	192.168.1.167		
PTZ Tally 땐 Video ~ 웭 Audio 쨠 Streaming ~	Protocol IP Address Transport	192.168.1.167 TCP ~		
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PTZ Tally I Video ∽ N Audio Streaming ∽ Streaming ∽ Network System Version I Hardware 11.1.2 Firmware 1.0.2.30	Protocol IP Address Transport Port Address Address Fix	192.168.1.167 TCP V 1259 1 OFF V Auto V		
PTZ Tally IP Video ∽ IN Audio IP Streaming ~ IP Streaming	Protocol IP Address Transport Port Address Address Fix	192.168.1.167 TCP ~ 1259 1 OFF ~		
PTZ Tally I Video ∽ N Audio Streaming ∽ Streaming ∽ Network System Version I Hardware 11.12 Firmware 1.0.2.30 WEB 0.9.44	Protocol IP Address Transport Port Address Address Fix	192.168.1.167 TCP V 1259 1 OFF V Auto V		

Video configuration Set the video coding, video output, and OSD canvas

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KIN	Ď			Live	Setting	Logout	
⑦ Dashboard							
Camera ~	HDMI		C				
In Video ∧							
Input	Resolution	No Signal					
Encoder	Audio	No					
Output							
OSD							
i Audio							
國 Streaming ~							
器 Network							
System							
Version 🗐							
Hardware 11.1.2							
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⑦ Dashboard							
Camera ~	Encoder Settings						
Video	Main Stream			Secondary Stream			
Input							
Encoder	Codec H.2	64	~	Codec	H.264	~	
Output	Profile MP		~	Profile	MP		
OSD							
船 Audio	Resolution 192	0x1080	×	Resolution	1280x720		

Rate Control CBR

Frame Rate 30

I Frame Interval 60

Bitrate 1000

Save

Rate Control CBR

Frame Rate 30

I Frame Interval 60

Bitrate 12000

Save

圆 Streaming ~ 品 Network

System

 Version
 E

 Hardware
 11.1.2

 Firmware
 1.0.2.30

 WEB
 0.9.44

 NDI
 5.5.4

 SN
 17605

← C ▲ 不安全	kind-17605.local/#/set	ing/video/video_out					
KINI) [°]			Live	Setting	Logout	
⑦ Dashboard							
Camera ~	Video Out						
Input √	Output Format	2160p30	~				
Encoder	Mute						
Output OSD	Loopout						
隙 Audio		Save					
Streaming ~							
品 Network							
System							
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Hardware 11.1.2 Firmware 1.0.2.30							
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Werson III.2 Hardware 10.2.30 VEB 0.9.44 NKI 5.5.4 NKI 17055			

Audio configuration: Set the audio format, sample rate, bit rate, channel, volume, and audio source

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← C ▲ 不安全	kind-17605.local/#/	setting/audio				
KINI)°			Live	Setting	Logout
⑦ Dashboard						
Camera ~	Audio Settin	igs				
🗈 Video 🗸	Fachia					
웭 Audio	Enable					
题 Streaming ~	Format	AAC	\sim			
器 Network	Sampling Rate	48	~			
System	Sampling Bits	16				
Version 🗐	Bitrate	128	~			
Hardware 11.1.2 Firmware 1.0.2.30	Channel	Stereo	\sim			
WEB 0.9.44 NDI 5.5.4	Volume •		 -0			
SN 17605	Source	Line In	\sim			
		Save				

Media configuration: local stream, network stream, video, and NDI information The local stream can extract the RTSP protocol of the device

KIN	D [°]	Live Setting Logout	English V KIND-17605 🙆
⑦ Dashboard	Local Stream		
Camera ~	Local Stream		
🗈 Video 🗸 🗸	💽 main/av	rtsp://192.168.0.52:8554/main/av	Ē
制 Audio	sub/av	rtsp://192.168.0.52:8554/sub/av	Ē
國 Streaming ~			
Local			
Live			
Record			
NDI®			
品 Network			
System			

Network stream: Configure information such as multiple live broadcast addresses

	kind-17605.local/#/setting/stream/streaming			28 @ 合田作 @ %。…
KIN	D	Live Setti	i ng Logout	English 👋 KIND-17605 🙆
⑦ Dashboard	Live Stream			
Camera ~	Live Stream			+Add
🗉 Video 🗸			No Data	
1월 Audio				
國 Streaming ~				
Local				
Live				
Record				
NDI®				
器 Network				
System				

Video: Displays information about the inserted storage device

				38 @ 公 印 作 庙 % …
KIND	Live	Setting	Logout	English 🗸 KIND-17605 🙆
 ⑦ Dashboard Record © Camera ~ 				©Refresh
🖽 Video 🗸 🛄 usb1	USB1		No signal source	ē ≆ ()
報 Audio				
誘 Streaming ~				
Local				
Live				
Record				
NDI®				

NDI: Configure NDI information

← C ▲ 不安全 | kind-17605.local/#/setting/stream/ndi

KI	N	Ď		Live	Setting	Lo
⑦ Dashbo	ard	NDI®				
Camera	~	Enable				
➡ Video	~	Quality	NDI® HX1			
能 Audio						
题 Streami	ng ^	Device Name	KIND-17605			
Local		Group	Public			
Live Record		Multicast				
NDI®		Multicast IP	239.255.0.0			
品 Network		Subnet Mask	255.255.0.0			
System		TTL	1			
Version (E) Hardware 11.1 Firmware 1.0.	1.2 2.30	NDI® Discovery	Save			

Network configuration: Set the network, hotspot, WIFI, and network port information of the device

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⑦ Das	hboard						
් Can	nera ~	LAN Hotspot	WIFI	Port	mDNS	NAS	
■ Vide	:o ~	12/21/02					
ド Aud	io	IP(DHCP)					
颤 Stre	aming ~	IP Address	192.168.0	0.52			
器 Netw	-	Subnet Mask	255.255.2	255.0			
Syst	em	Default Gateway	192.168.0	0.1			
		MAC Address	00:14:8c:	1c:8f:01			
Version Hardware Firmware	11.1.21.0.2.30	Preferred DNS	221.130.3	33.52			
WEB NDI	0.9.44	Alternate DNS	114.114.1	14.114			
SN	17605	P2P	\bigcirc				
	(0)		Save				

System Settings: Set the device name, working mode, NDI information, user management, system time, recovery and restart, firmware upgrade, and log information

KIND		Live	Setting Logout
 ⑦ Dashboard ③ Camera → System Work 	tking Mode NDI® User Time Def	ault Upgrade Logs	
 Ⅳ Video ~ The ※ Audio 圖 Streaming ~ Langua 圖 Network Device Na ④ System 	age English ~		
Version [] Hardware 11.1.2 Firmware 10.2.30 WEB 0.9.44 NDI 5.5.4 SN 17605			

九、Contact us

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