

HDMI-WALL USER MANUAL





V3.1.1 JULY 2016

Table of Contents

1	OV	ERVIEW	1
1.1	G	eneral Introduction	1
1.2	S	pecifications	3
1	.2.1	1-channel 4K High Definition Series	
	.2.2	4-channel 4K High Definition Series	
1.	.2.3	1/4-channel High Definition Series	
1.	.2.4	9/16-channel High Definition Series	
1.3	Fe	patures	8
2	FRO	ONT PANEL/REAR PANEL/INSTALLATION	13
2.1	C	neck Unpacked HDMI-WALL	13
2.2	Fi	ont panel	13
2	.2.1	1/4-channel 4K High Definition&1/4-channel High Definition Series	
	.2.2	9/16-channel High Definition Series	
		J. J	
2.3	R	ear Panel	15
2	.3.1	1-channel 4K high definition series	15
2	.3.2	4-channel 4K high definition series	16
2	.3.3	1-channel High Definition Series	16
2	.3.4	4-channel High Definition Series	
2	.3.5	9-channel High Definition Series	17
2	.3.6	16-channel High Definition Series	
2.4	C	onnection	
	.4.1	General Connection	
	.4.2	Audio/Video Connection	
2	.4.3		1/1
~		Audio Talk Input Connection	
	.4.3 .4.4 .4.5	Audio Talk Input Connection Video Output Device and Connection Audio Output	19

3	OP	ERATION	21
3.1	E	Boot Up and Shut Down	21
3.2	L	.ogin	
3.	2.1	Preparation	
3.	2.2	Login	
3.3	N	<i>I</i> ain Window	24
3.4	V	/ideo Wall Splicing (Display Pane) Function	
3.5	A	Add /Remove Front-end Device	
3	5.1	Add device	33
	5.2	Delete Device	
0.			
3.6	۵	Decode Channel Setup	
3.7	F	ile Playback and Time Playback	
3.	7.1	File Playback	
3.	7.2	Time Playback	
3.8	Г	Decoder	37
	- 8.1		
-	o. i 8.2	Decode Tour Decode Output	
υ.	8.3	Decode Strategy	
-	8.4	Screen Show	
	8.5	Output Options	
3.	8.6	Background Color	
3.	8.7	Split Line	
3.9	S	Setting	43
3.	9.1	General	
	9.2	Network	
3.	9.3	RS232	47
3.	9.4	Alarm	53

Resolution	
Account	
Maintain	60
Version	
Sniffer	61
Default and Backup	
auto Maintenance	
Connection mode	
_og out	
CAL GUI OPERATION	
Boot up	
About Interface	
Main Interface	
Device Tree	
Shortcut Menu	
GUI Basic Operation	
•	
Remote Device	
Network	
Close	
ARM INPUT AND OUTPUT	79
	Q1
nam mput ron	
Alarm Output Port	
Alarm Output Relay Specifications	
	Version

6.1	Connection	84
6.1. 6.1.		
6.2	Login method	85
6.3	Picture switch	

Welcome

Thank you for purchasing our product!

This user's manual is designed to be a reference tool for the operation of your system. Here you can find information about this series NVS's features and functions. Before installation and operation please read the following safeguards and warnings

Before installation and operation please read the following safeguards and warning: carefully!

Important Safeguard and Warning

1. Electrical safety

All installation and operation here should conform to your local electrical safety codes. The product must be grounded to reduce the risk of electric shock.

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

Please use three-pin power socket (with GND).

We are not liable for any problems caused by unauthorized modifications or attempted repair.

2. Installation

Do not apply power to the device before completing installation. Do not put objects on the HDMI-WALL.

3 . Environment

The HDMI-WALL should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc. Please guarantee sound ventilation and keep device clean.

4. About Accessories

Be sure to use all the accessories recommended by manufacturer. Contact your local retailer ASAP if something is damaged in the accessory package.

1 Overview

1.1 General Introduction

These high definition series product is a network audio & video decode device designed and developed for the video network monitor system. It has elegant shape and strong data process capability. It has stable and sound network function and supports all popular encode modes. This series product has sound expansibility and it is easy to maintain and connect.

This kind of design is convenient for the whole network video surveillance system to install, control and manage. At the same time, it greatly reduces the system cost.

The decoder adopts embedded OS and effectively guarantees the security, stability, reliability and high performance of the network video surveillance system.

Model	Decode Output Capability	Output Port	Split Mode
1-channel 4K high definition series	 16-channel 1080P resolution video decode output 12-channel 300w video decode output. 7-channel 500w video decode output. 6-channel 600w video decode output. 4-channel 800w video decode output. 1-channel 1200w video decode output. 1-channel 1080P SVAC video decode output. 1-channel 1080P H.265 video decode output. 	 VGA HDMI 	The TV screen supports 1/4/9/16-window display mode.
4-channel 4K high definition series	 4-channel 1200W video decode output. 4-channel 800W video decode output. 16-channel 1080P video decode output. 	VGAHDMIBNC	The TV screen supports 1/4/9/16-window display mode.

These series products all support window split function

Model	Decode Output Capability	Output Port	Split Mode
	 36-channel 720P video decode output. 64-channel 960H video decode output. 4-channel 1200W H.265 video decode output. 4-channel 800W H.265 video decode output. 16-channel 1080P H.265 video decode output. 36-channel 720P H.265 video decode output. 64-channel 960H H.265 video decode output. 		
1-channel high definition series	 4-channel 1080P resolution video decode output. 12-channel 960H resolution video decode output 16-channel D1 resolution video decode output 	VGAHDMIBNC	The TV screen supports 1/4/9/16-window display mode.
4-channel high definition series	 7-channel 1080P resolution video decode output. 24-channel 960H resolution video decode output 28-channel D1 resolution video decode output 	VGAHDMIBNC	The first TV screen supports 1/4/9/16-window display mode. The rest TV screens support 1/4-window display mode.
9-channel high definition series	 2-channel 800w resolution non-real time video decode output. 8-channel 500w resolution non-real time video decode output. 8-channel 300w resolution non-real time video decode output. 9-channel 1080P resolution video decode output. 	VGAHDMI	The first TV screen supports 1/4/9/16-window display mode. The rest TV screens support 1/4-window display mode.

Model	Decode Output Capability	Output Port	Split Mode
	• 33-channel 720P resolution video decode output.		
	 44-channel 960H resolution video decode output 		
	• 48-channel D1 resolution video decode output		
16-channel	• 4-channel 800w resolution	• VGA	The TV screen supports
high definition series	non-real time video decode output.	 HDMI 	1/4-window display mode.
	 16-channel 500w resolution non-real time video decode output. 		
	 16-channel 300w resolution non-real time video decode output. 		
	 26-channel 1080P 8 Mbps or 32-channel 1080P 6Mbps resolution video decode output. 		
	• 52-channel 720P resolution video decode output.		
	 64-channel 960H resolution video decode output 		
	• 64-channel D1 resolution video decode output		

1.2 Specifications

1.2.1 1-channel 4K High Definition Series

		0
	Device Model	1-channel 4K high definition series
	Main Processor	High performance industry embedded micro processor
System Parameter	OS	Embedded LINUX
	Input Device	Front panel button and keyboard
	Shortcut Menu	N/A
Hardware	Video Standard	SVAC/MPEG4/H.264/MJPEG/H.265
Port	Audio Standard	PCM/G711

Specification	Decode	QCIF/CIF/2CIF/HD1/D1/960H/720P/1080P/300w/500w/600w/800w/
opeomodion	Display	1200w
	Resolution	12000
	Video Frame	PAL:1~25f/s; NTSC:1~30f/s
	Rate	
	Bit stream Type	Composite stream/Video stream
	Video Output	1 channel
	Channel	
	Video Output	VGA/HDMI
	Port	
	Audio Output	1 channel
	Channel	
	Audio Output	HDMI
	Port	
	Communication	 One RJ45 10M/ 100M/1000M self-adaptive Ethernet port
	Port	One RS232 port
		One RS485 ports (semi-duplex)
	Audio Talk	1 channel
	Channel	
	Audio Talk Port	RCA(Level: 2Vrms. Output resistance : 10kΩ)
	Alarm input	4 channels
	Alarm Output	4-ch relay output (30VDC 1A.125VAC 0/5A activation output)
Working	Power	DC12V, 3.3A
Environment	Power	≤20W
and Other	Consumption	
Physical	Working	−10°C~+55°C
Specification	Temperature	
	Working	10%-95% 86kpa-106kpa
	Humidity	
	Dimension	440×300×42.1mm
	(mm)	
	Weight	3.00 kg—3.50 kg

1.2.2 4-channel 4K High Definition Series

		· g··· 2 • · · · · · • • · · • •
	Device Model	4-channel 4K high definition series
	Main Processor	High performance industry embedded micro processor
System Parameter	OS	Embedded LINUX
	Input Device	Front panel button and keyboard
	Shortcut Menu	N/A
Hardware	Video Standard	MPEG4/H.264/MJPEG/H.265
Port	Audio Standard	PCM/G711

Specification	Decode	QCIF/CIF/2CIF/HD1/D1/960H/720P/1080P/300w/500w/600w/800w/
opoomoation	Display	1200w
	Resolution	
	Video Frame	PAL:1~25f/s; NTSC:1~30f/s
	Rate	
	Bit stream Type	Composite stream/Video stream
	Audio/video	
	input Channel	1 channel
	Audio/video	
	input Port	HDMI
	Video Output	4 channels
	Channel	
	Video Output	VGA/HDMI/BNC
	Port	
	Audio Output	4 channels
	Channel	
	Audio Output	HDMI/BNC(Level: 0.2V \sim 3V, Output resistance: 5k Ω)
	Port Communication	 One RJ45 10M/ 100M/1000M self-adaptive Ethernet port
	Port	 One RJ45 10M/ 100M/1000M self-adaptive Ethernet port One RS232 port
	TOR	 One RS485 port
		 One RJ45 port for screen control
	Audio Talk	1 channel
	Channel	
	Audio Talk Port	BNC(Level: 2Vrms. Output resistance : $10k\Omega$)
	Alarm input	4 channels
	Alarm Output	4-ch relay output (30VDC 1A.125VAC 0/5A activation output)
Working	Power	DC12V, 5.0A
Environment	Power	≤40W
and Other	Consumption	
Physical	Working	−10°C~+55°C
Specification	Temperature	
	Working	10%-95% 86kpa-106kpa
	Humidity	
	Dimension	440×300×42.1mm
	(mm)	
	Weight	3.00 kg—3.50 kg

1.2.3 1/4-channel High Definition Series

System		1-channel	high	definition	4-channel high definition series
Parameter	Device Model	series			
Main Processor High performance industry		industry em	bedded micro processor		

	OS	Embedded LINUX	
	Input Device	Front panel button and keyboa	ard
	Shortcut Menu	N/A	
	Video Standard	MPEG4/H.264/ MJPEG	
	Audio Standard	PCM/G711	
	Decode Display Resolution	QCIF/CIF/2CIF/HD1/D1/960H/	/720P/1080P
	Video Frame Rate	PAL:1~25f/s; NTSC:1~30f/s	S
	Bit stream Type	Composite stream/Video strea	ım
	Video Output Channel	1 channels	4 channels
Hardware Port	Video Output Port	VGA/HDMI/BNC	
Specification	Audio Output Channel	1 channel	4 channels
	Audio Output Port	HDMI/BNC (Level: 200-3000 mV. Resistance: 5Ω)	
	Communication Port	 One RJ45 10M/ 100M/1000M self-adaptive Ethernet port One RS232 port Two duplex RS485 ports 	
	Audio Talk Channel	1 channel	
	Audio Talk Port	BNC(Level: 2Vrms. Output resistance : $10k\Omega$)	
	Alarm input	16 channels	
	Alarm Output	8-ch relay output (30VDC 1A.1	125VAC 0/5A activation output)
Working	Power	DC12V, 3.3A	DC12V, 5.0A
Environment and Other	Power Consumption	≤10W	≤40W
Physical Specification	Working Temperature	−10°C~+55°C	
	Working Humidity	10%—95% 86kpa—106kp	pa
	Dimension (mm)	440×300×42.1mm	
	Weight	3.00 kg—3.50 kg	

1.2.4 9/16-channel High Definition Series

System	Device Model	9-channel high definition series	16-channel	high	definition
Parameter			series		

	Main Processor	High performance industry embedde	ed micro processor	
	OS	Embedded LINUX		
	Input Device	Front panel button and keyboard		
Shortcut Menu		N/A		
Hardware	Video Standard	MPEG4/H.264/ MJPEG		
Port	Audio Standard	PCM/G711		
Specification	Decode Display Resolution	QCIF/CIF/2CIF/HD1/D1/960H/720P/1080P/300w/500w/600w/ 800w		
	Video Frame Rate	PAL:1~25f/s; NTSC:1~30f/s		
	Bit stream Type	Composite stream/Video stream		
	Video Output Channel	9 channels	16 channels	
	Video Output Port	VGA/HDMI	VGA/HDMI	
	Audio Output Channel	9 channels	16 channels	
	Audio Output Port	HDMI/DB15 audio BNC	HDMI/DVI-I audio BNC	
	Communication Port	 One RJ45 10M/ 100M/1000M self-adaptive Ethernet port One RS232 port One standard RS485 port 	 Two RJ45 10M/ 100M/1000M self-adaptive Ethernet ports One RS232 port One standard RS485 port 	
	Audio Talk Channel	1 channel		
	Audio Talk Port	3.5mm jack port, input port: 3.5mn Mic in, input resistance10k Ω); outp output resistance 16 Ω)		
	Alarm input	4 channels	N/A	
	Alarm Output	4-chrelayoutput(30VDC1A.125VAC0.5Aactivationoutput)	N/A	
Working	Power	AC100-240V, 50Hz~60Hz		
Environment and Other	Power Consumption	≤70W	≪90W	
Physical Specification	Working Temperature	−10°C~+55°C		

Working	10%-95% 86kpa-106kpa	
Humidity		
Dimension	440X408X70mm	448×440×89mm
(mm)		
Weight	4.5kg \sim 4.8kg	7kg~7.5kg

1.3 Features

Network	Property Setup	Network parameter setup such as IP, getaway, subnet mask.
		Support remote control.
	NTP	Synchronize system time via NTP service.
	DHCP	Automatically get network parameter such as IP parameter.
	Auto get	After you configured the front-end encode device information,
		decoder can automatically connect to the encode device and
		then begin work independently and reliably,
	Passive receive	In transmit mode, decoder can get the random data bit stream
		from the network server to realize decoding output.
Output	Window Split	 1-channel 4K high definition series: It supports 1/4/9/16 -window split. 4-channel 4K high definition series: It supports 1/4/9/16 -window split. 1-channel high definition series: It supports 1/4/9/16 -window split. 4-channel high definition series: The first TV screen supports 1/4/9/16-window split; the 2-4 TV screens support 1/4/-window split. 9-channel high definition series: The first TV screen supports 1/4/9/16-window split; the 2-9 TV screens support 1/4/-window split. 16-channel high definition series: All TV screens support 1/4-window split.

	Display Tour	 1-channel 4K high definition series has one output interface set. It includes one VGA and one HDMI. 4-channel 4K high definition series has four output interface sets. One set includes one VGA, one HDMI and one BNC. 1-channel high definition series has one output interface set. It includes one VGA, one HDMI and one BNC. 4-channel high definition series has four output interface sets. One set includes one VGA, one HDMI and one BNC. 4-channel high definition series has four output interface sets. One set includes one VGA, one HDMI and one BNC. 9-channel high definition series has nine HDMI ports and nine VGA ports. 16-channel high definition series has sixteen HDMI ports and sixteen VGA ports. These four series products can realize real-time surveillance via monitor and support alarm tour output and decode tour.
Input	Input Port	4-channel 4K high definition series has one HDMI input port.
Alarm External Alarn		Multiple-channel relay alarm output to activate the peripheral alarm device (such as on-site light control), manual control and activation video output. Note The 16-channel high definition series has no external alarm output port and does not support external alarm output port.
	Decoder Alarm	Prompt current decode status in time.
	Precaution Measure	Alarm input port and alarm output port both have protection electricity to guarantee main device safety.
СОМ	Common COM	Device debug console.
	Network Keyboard	The key board can control the device via network port.
	Control Keyboard	The key board can control the device via RS232 port.
	Transparent COM	Transparent COM function.
	Screen Control COM	4-channel 4K high definition series has one screen control COM to control the video wall on/off, brightness, contrast, saturation, definition setup, BLC mode switch and etc.
Decode	Decode Capability (System auto recognize current decode load and can	 1-channel 4K high definition series: max supports 16-channel D1@25fps/30fps, 16-channel 1080P@25fps/30fps, 12-channel 300W@25fps/30fps , 7-channel 500W@25fps/30fps , 6-channel 600W@25fps/30fps , 4-channel 800W@25fps/30fps realtime output, and 1-channel 1200W@25fps/30fps

prompt abnormal situation in	realtime output. Support 1-channel 1080P SVAC bit stream realtime output, 1-channel 1080P H.265 bit stream realtime output.
time.)	 4-channel 4K high definition series: max supports 4-channel 1200W@15fps video decode output, 4-channel 800W@30fps video decode output (One for each TV screen), 16-channel 1080P video decode output (4 for each TV screen), 36-channel 720P video decode output (9 for each TV screen) 64-channel 960H video decode output. 4-channel 1200W@15fps H.265 video decode output, 4-channel 800W@30fps H.265 video decode output (for each TV screen), 16-channel 1080P H.265 video decode
	 output (4 for each TV screen), 36-channel 720P H.265 bit stream video decode output (9 for each TV screen), 64-channel 960H H.265 bit stream video decode output. 1-channel high definition series max supports 16-channel D1 decode output (201 bit stream), 42 sharped 2001
	D1 decode output (2M bit stream), 12-channel 960H decode output (2.5M bit stream), 8-channel 720P decode output (4M bit stream), 4-channel 1080P@25fps (8M bit stream) decode output.
	 4-channel high definition series max supports 28-channel D1 decode output (2M bit stream), 14-channel 720P decode output (4M bit stream. There are 8-channel on the first TV screen and each 2-channel for the rest TV screens), 24-channel 960H decode output (2M bit stream. The first TV supports 12-channel 960H and the rest TV support 4-channel 960H respectively), and 7-channel 1080P@25fps decode output (8M bit stream. There are 4-channel on the first TV screen and each 1-channel for the rest TV screens)
	 9-channel high definition series max supports 2-channel 800W @13fps non-realtime decode output(Any one from the TV1-TV2, any one from the TV5-TV6), 6-channel 600W @10fps non-realtime decode output,8-channel 500W @8fps non-realtime decode output, 8-channel 300w@15fps non-realtime decode output, 4-channel 300w@25fps realtime decode output (Any two from the TV1-TV4, any two from the TV5-TV8.), 9-channel 1080P decode output,
	33-channel 720P decode output (There are 4-channel on the 1-8 TV screen respectively. The 9 TV screen supports 1-channel.), 44-channel 960H decode output (The first TV supports 12-channel and the rest TVs support 12-channel respectively), 48-channel D1 decode output.

		• 16-channel high definition series max supports 4-channel 800W @13fps non-realtime decode output(Any one from the TV1-TV2, any one from the TV5-TV6, any one from the TV9-TV10, any one from the TV13-TV14,), 12-channel 600W @10fps non-realtime decode output, 16-channel 500W @8fps non-realtime decode output, 16-channel 300w @15fps non-realtime decode output, 8-channel 300w @25fps realtime decode output (Any two from the TV1-TV4, any two from the TV5-TV8, any two from the TV9-TV12, any two from the TV13-TV16,),32-channel 1080P decode output (Any eight from the TV1-TV4, any eight from the TV5-TV8, any eight from the TV13-TV12, any eight from the TV13-TV16,), 52-channel 720P 4Mbps or 64-channel 720P 3Mpbs decode output, 64-channel 960H decode output, 64-channel D1 decode output.
	Real-time	Get the local real-time bit stream of the encoder and then
	stream decode	output.
	Previous	Get the local previous bit stream of the encoder and then output.
	stream decode	
	Message	All application ends can accurately get current decoding status.
	feedback	
User	Account	Add, modify, and delete user or user group.
Management	Management	Modify user password.
	Right	Set different rights for different users.
	Management	
	Security	Password protection.
	Management	Three times login failure may result in account lock.
Others	Version	Display device important hardware port information, software
	Information	version information and etc.
	Log Search	Record device important log. Support search by type.
	Time	Set system time manually or synchronization PC time.
	Synchronization	
	Language	English
	Option	Cat area as DOT time according to different regions' actus
	DST	Set proper DST time according to different regions' setup.
	Auto	Auto maintain device regularly.
	maintenance	
	DNS	Domain service
	Upgrade	Support various upgrade types such as U disk, network, and TFTP.
	Intelligent	Support copy function for the same setup.
	Operation	

Deve	lopment	Provide decode device SDK.
		Provide demonstration software and development introduction.

2 Front Panel/Rear Panel/Installation

Note:

- All the installation and operations here should conform to your local electric safety rules.
- VGA cable quality and length can affect the video quality. It may result in distorted video, noise, black margin. The video quality may vary even if you are viewing the same video via different VGA cables.

2.1 Check Unpacked HDMI-WALL

When you received the HDMI-WALL from the shipping agency, please check whether there is any visible damage. The protective materials used for the package of the HDMI-HD can protect most accidental clashes during transportation. Then you can open the box to check the accessories. Please check the items in accordance with the list. Finally you can remove the protective film of the HDMI-WALL. The label at the bottom of the box is

very important. Usually we need you to present the serial number when we provide the service after sales.

2.2 Front panel

2.2.1 1/4-channel 4K High Definition&1/4-channel High Definition Series

The 1/4-channel 4K high definition and 1/4-channel high definition series front panel is shown as in Figure 2-1.

Ů △ 음 ぷ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 IF	R

Figure 2-1

Name	lcon	Function
Power button	6	Press it for three seconds to boot up or shut down the
		device.
		Press it three times within one second, it can clear
		device configuration.
Power indicator		The indicator light becomes on when system boots
light	0	up.
Network indicator	D	The indicator light becomes on when abnormal
light	66	network event occurs (offline, IP conflict and etc.)
USB port	44 1	Connect to external USB device.

Name	Icon	Function
Alarm indicator light		N/A
HDD indicator light	2	N/A
IR receiver	IR	N/A
Output indicator light	1 2 3 4	It is to display output port working mode. For 1-channel 4K high definition series and 1-channel high definition series, only the first indicator light is effective. For 4-channel 4K high definition series and 4-channel high definition series, only the channel 1 to channel 4 indicator lights is effective.

2.2.2 9/16-channel High Definition Series

The 9-channel high definition series front panel is shown as in Figure 2-2.

.	IR	0 4 8 %	1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16	tin the second s	
				(

Figure 2-2

The 16-channel high definition series front panel is shown as in Figure 2-3.



Figure 2-3

Name	Icon	Function
Power button	- ch	Press it for three seconds to boot up or shut down the
		device.
		Press it three times within one second, it can clear
		device configuration.

Name	lcon	Function
Power indicator light	С С	The indicator light becomes on when system boots up.
Network indicator light	8	The indicator light becomes on when abnormal network event occurs (offline, IP conflict and etc.)
USB port		Connect to external USB device.
Alarm indicator light		N/A
HDD indicator light	8	N/A
IR receiver	R	N/A
Output indicator light	1 2 3 4	It is to display output port working mode. For 9-channel high definition series, only the channel 1 to channel 9 indicator light is effective. For 16-channel high definition series, only the channel 1 to channel 16 indicator light is effective.

2.3 Rear Panel

2.3.1 1-channel 4K high definition series

The rear panel is shown as below. See Figure 2-4.



Figure 2-4

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	RS232 port	3	USB port
4	HDMI port	5	Network interface(10M/100M/1 000M self-adaptive Ethernet port)	6	VGA port

SN	Port Name	SN	Port Name	SN	Port Name
7	Audio talk output port RCA OUT	8	Audio talk input port RCA IN	9	4-channel alarm input, 4-channel alarm output, RS485 port.
10	Power socket	11	Power switch		

2.3.2 4-channel 4K high definition series

The rear panel is shown as below. See Figure 2-5.



Figure 2-5

Please refer to the following sheet for detailed information.

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Audio output port(BNC)	3	Video output port
					(BNC)
4	Audio talk input	5	Audio talk output	6	VGA port
	port		port		
7	HDMI output port	8	HDMI input port	9	RS232 port
10	RS232 port to control	11	Network	12	USB port
	the screen		interface(10M/100M/1000		
			M self-adaptive Ethernet		
			port)		
13	Alarm input, alarm	14	Power on-off button	15	Power socket
	output, standard RS485				
	port				

2.3.3 1-channel High Definition Series

The rear panel is shown as below. See Figure 2-6.





Please refer to the	e following	sheet for	detailed information.	
	s ronowing .	Sheet IOI		

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Audio output port(BNC)	3	Video output port (BNC)
4	Audio talk input	5	Audio talk output	6	VGA port
	port		port		
	RS232 port	8	HDMI port	9	Network
7					interface(10M/100M/100
7					0M self-adaptive
					Ethernet port)
10	Relay input, relay	11	Power socket	12	Power switch
	output, duplex RS485				
	port				

2.3.4 4-channel High Definition Series

The rear panel is shown as in Figure 2-7.



Figure 2-7

Please refer to the following sheet for detailed information.

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Audio output port(BNC)	3	Video output port (BNC)
4	Audio talk output	5	Audio talk input	6	VGA port
	port	5	port		
	HDMI port	8	RS232 port	9	Network
7					interface(10M/100M/100
<i>'</i>					0M self-adaptive
					Ethernet port)
10	Relay input, relay	11	Power socket	12	Power switch
	output, duplex RS485				
	port				

2.3.5 9-channel High Definition Series

The rear panel is shown as below. See Figure 2-8.



Figure 2-8

Please refer to the following sheet for detailed information.

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Power switch	3	Power socket
4	HDMI port		Network	6	Relay input, relay
		5	interface(10M/100M/1000M		output, standard RS485
			self-adaptive Ethernet port)		port.
7	Audio talk input	8	Audio talk output	9	Audio output port
1	port		port		
10	RS232 port	11	VGA port		

2.3.6 16-channel High Definition Series

The rear panel is shown as below. See Figure 2-9.



Figure 2-9

SN	Port Name	SN	Port Name	SN	Port Name
1	Ground screw hole	2	Power switch	3	Power socket
4	HDMI port (16)	5	VGA port (16)	6	Audio talk output port
7	Audio output port	8	Standard RS485 port	9	Audio talk input port
10	Network	11	RS232 port		

interface(10M/100M/1000M		
self-adaptive Ethernet port)		

Note:

When you connect it to the PC network port, please use crossover cable. When you connect it to the PC via router or switch, please use straight cable.

2.4 Connection

2.4.1 General Connection

Please refer to the follow figure for connection information. See Figure 2-10. The following figure is based on the 4-channel high definition series product.



Figure 2-10

2.4.2 Audio/Video Connection

All audio and video data are encoding from the front-end device and then input to the network via RJ45 port.

2.4.3 Audio Talk Input Connection

It adopts BNC port.

2.4.4 Video Output Device and Connection

- 1-channel 4K high definition series adopts one output set. Each set has one VGA port, one HDMI port.
- 4-channel 4K high definition series adopts four output sets. Each set has one VGA port, one HDMI port and one BNC; BNC(1.0VP-P , 75Ω).
- 1-channel high definition series adopts one output set. Each set has one VGA port, one HDMI port and one BNC; BNC(1.0VP-P , 75Ω).
- 4-channel high definition series adopts four output sets. Each set has one VGA port, one HDMI port and one BNC; BNC(1.0VP-P , 75Ω).
- 9-channel high definition series adopts nine output sets. Each set has one VGA port, one HDMI port.
- 16-channel high definition series adopts sixteen output sets. Each set has one VGA port, one HDMI port.

Here we recommend the industry monitor to be the output device of the decoder. It has the following advantages:

- The industry monitor is suitable for long time surveillance. The pc monitor cannot run for such a long time. It is easy to be aging, damage or burn down.
- Industry monitor has stronger vivid and colorful video.
- Industry monitor can be used in many complicated environments and has strong anti-interference capability. It is more stable.

Please note, using TV as video output device is not a reliable substitution method. You need to reduce the working hours and control the interference from power supply and other devices. The risk of short circuit problem resulting from low quality TV may cause damage to other devices.

2.4.5 Audio Output

The audio output parameter of HDMI-WALL is $200\text{mV} 1\text{k}\Omega$ (BNC), it can connect directly to low impedance earphone, active sound box or amplifier-drive audio output device. If the sound box and the pick-up cannot be separated spatially, it is easy to arouse squeaking. In this case you can adopt the following measures:

- Use pick-up with better directing property.
- Reduce the volume of the sound box until there is no squeaking.
- Using more sound-absorbing materials in decoration to reduce voice echo and improve acoustics environment.
- Adjust the layout to reduce risk of the squeaking.

3 Operation

- The following operations are generally based on the 9-channel high definition series product.
- Slight different may be found in the user interface.

3.1 Boot Up and Shut Down

Boot up

Connect the HDMI-WALL to the power and then press the power button in the rear panel. You can see the power indicator light becomes on and HDMI-WALL boots up. The system is in multiple-window display mode by default.

Shut down

You can press power button in the front panel for three seconds to shut down the device.

System Restore after Power Failure

When decoder is working, if the power failure occurs, the system can automatically connect to the front-end device and restore previous working status once the power connection becomes normal.

3.2 Login

3.2.1 Preparation

Before log in, please make sure:

- HDMI-WALL connection is OK.
- You have set PC IP address, HDMI-WALL IP address, subnet mask and gateway. (Please set the IP address of the same section for the PC and HDMI-WALL. Please input corresponding gateway and subnet mask if there are routers.) When HDMI-HD booted up normally, please input account name **admin** and password **admin** via the PC COM port., then input net - a and then input IP, NETMASK, GATEWAY. The command mode is: net -a [IP] [NETMASDK] [GATEWAY].

For example:

Username: admin

Password: admin

DeBug>net -a 192.168.XXX.XXX 255.255.XXX.XXX 192.168.XXX.XXX

- Use order ping ***.***.***(HDMI-WALL IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open IE and then input the address in the column.
- WEB control can be downloaded and installed automatically. System can download the latest Web control and remove the old one.
- You can run uninstall web.bat to remove the control

• System is compatible with web control of WINVISTA. But you need to disable account control item and then reboot the PC.

3.2.2 Login

Open the IE and then input the HDMI-WALL IP address in the address column. For example, if your HDMI-WALL IP address is 192.168.1.100, then please input http:// 192.168.1.100 in IE address column. See Figure 3-1.



Figure 3-1

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

If you can't download the ActiveX file, please modify your settings as follows. See Figure 3-2.

Internet Options	Security Settings - Internet Zone	3
General Security Privacy Content Connections Programs Advanced	Settings	
Select a zone to view or change security settings.	O Disable Sector Disable	
9 😌 🗸 📋	Download signed ActiveX controls (not secure) Disable	
Internet Local intranet Trusted sites 🗹	Enable (not secure) Prompt (recommended)	
Internet This zone is for Internet websites, except those listed in trusted and restricted zones.	 Download unsigned ActiveX controls (not secure) Disable (recommended) Enable (not secure) Prompt 	
Security level for this zone	Initialize and script ActiveX controls not marked as safe for s	
Allowed levels for this zone: Medium to High	Disable (recommended) Enable (not secure) Prompt	
Prompts before downloading potentially unsafe content Unsigned ActiveX controls will not be downloaded	Run ActiveX controls and plug-ins Administrator approved	
	*Takes effect after you restart Internet Explorer	
Custom level Default level Reset all zones to default level	Reset custom settings Reset to: Medium-high (default) Reset	
OK Cancel Apply	OK Cancel	

Figure 3-2

After installation, the interface is shown as below. See Figure 3-3.

Username :	admin		
Password:			
	Login	Cancel	

Figure 3-3

Please input your user name and password and then click Login button.

- Default factory name is **admin** and password is **admin**.
- Note: For security reasons, please modify your password after you first login.

Now you can see system pops up the following dialogue box to remind you to change the default password. See Figure 3-4.

🔜 👍 Do	o you want to mo	dify the default pa	ssword?
	Yes	No	

Figure 3-4

Click Yes button, you can see the Modify Password dialogue box. Please input the new password twice and then click the Yes button. See Figure 3-10. Click No button to remain the default password.

ew Password			
	Low	Middle	High
onfirm			

Figure 3-5

3.3 Main Window

After login successfully, the interface will be shown as Figure 3-6.





There are ten sections:

Section 1: System menu

There are system menu buttons. Please refer to chapter 3.8 decoder configuration, chapter 3.9 Setting, and chapter 3.11 logout for detailed information.

Model	Decoded	Note
	Channel	
1-channel 4K high	16	The Web adopts the TV screen to display.
definition series		There is 1 screen corresponding to 1
		group output. You can use the one icon at
		the top left corner to select the screen. The
		first screen has 16-channel.
4-channel 4K high	64	The Web adopts the TV screen to display.
definition series		There are 4 screens corresponding to 4
		groups output. You can use four icons at
		the top left corner to select the screen.
		Each screen has 16-channel.
1-channel high	16	The Web adopts the TV screen to display.
definition series		There is 1 screen corresponding to 1
		group output. You can use the one icon at
		the top left corner to select the screen. The
		first screen has 16-channel.
4-channel high	28	The Web adopts the TV screen to display.

definition series		There are total 4 TV screens		
		corresponding to 4 groups output. You can		
		use the four icons at the top left corner to		
		select the screen. The first TV screen has		
		16-channel; the screen 2 to screen 4 each		
		has 4-channel.		
		The Web adopts the TV screen to display.		
	L .	There are total 9 TV screens		
0 channal bigh		corresponding to 9 groups output. You can		
9-channel high definition series	48	use the 9 icons at the top left corner to		
demnition series		select the screen. The first TV screen has		
		16-channel; the screen 2 to screen 4 each		
		has 4-channel.		
		The Web adopts the TV screen to display.		
16 channal birth		There are 16 screens corresponding to 16		
16-channel high definition series	64	groups output. You can use the 16 icons at		
		the top left corner to select the screen. The		
		screen each has 4-channel.		

Section 3: Splicing wall.

Click Splicing Wall, you can set splicing wall function. Please refer to chapter 3.4 for

detailed information.

Section 4: Bidirectional talk

It realizes the bidirectional talk between the WEB and the decoder. Please click

button of the StartDialog button to select corresponding bidirectional talk mode from the

dropdown list. Click StartDialog button to begin bidirectional talk between the WEB and the decoder.

Section 5:Front-end device list

It is to display added front-end device, device encode list and front-end device status. The 4-channel 4K high definition series product supports local signal collection. There is 1 –channel local signal in the device list by default. See Figure 3-7.





Section 6: Add/delete device

Add/delete front-end of the decoder.

Section 7:Playback

You can select playback by file or by time.

Section 8: Window split

There are four display modes: 1/4/9/16 window split. Take the first TV screen for an example: there are 16 options for single-window mode: channel 1, Channel 2.....channels 16. There are 4 options for four-window mode: 1-4ch, 5-8ch, 9-12ch, 13-16 ch. There are two options for nine-window mode: 1-9ch, 8-16ch. There is one option for 16-window mode: 1-16channel.

Single click and choose any decode channel to connect real-time decode output. Please

see Figure 3-8.

1.Device Name

2. Front-end device IP address.

3. Front-end real-time monitor channel.

4. The real-monitor channel connection status between the decoder and the front-end and

the stream mode such as main stream or sub stream.

- 5. **M**: Enable main stream.
- 6. Sinable sub stream.

7. It is a button to control the connection between the decoder and the front-end. Click it to close or open video.





Section 9:TV adjust/Screens

• TV Adjust

It is not for splicing wall. It is for current screen only.

This function is for 4-channel 4K high definition and 1/4-channel high definition series only. The 1-channel 4K high definition series product does not support this function.

It is to adjust margin. This function is valid for BNC output only. The margin value ranges from 0 to 100.

TV Adjust		×
		(T) (t)
Top Margin	ΞU	(+) 0
Bottom Margin	Ξ()—	
Left Margin	⊡0—	
Right Margin	⊡()—	

Figure 3-9

• Screens

This function is for 4-channel 4K high definition series product only.

Click Screens, system pops up screen on-off button, system BLC mode and screen adjust interface. See Figure 3-10.

♦ Screen Power

The screen on-off interface is shown as below. Select a screen, you can see its color is yellow, and then click on/off button.

Screen Power	Screen BLC Mode	Adjust Screen	×
ON OFF			

Figure 3-10

Before the screen on-off operation, please connect the RJ45 port of the 4-channel 4K high definition series product to the COM port of the monitor.

For the LCD from our company, 2 is to receive data, 3 is to send out data and 5 is GND. RJ45 COM port of the 4-channel 4K high definition series product: 1 is to receive data, 8 is to send out data, 5 is GND.

Please connect the 1 of the device to the 3 of the LCD, 8 of the device to the 2 of the LCD, and 5 of the device to the 5 of the LCD. For the other cable, you can just cut off.

♦ Screen BLC Mode
 Note

This function is for some screens only.

Click screen BLC mode, you can go to the following interface. Select one or more screen(s) or you can check ALL to select all screens and then click Switch mode button. See Figure 3-11.

Screen Power	Screen BLC Mode	Adjust Screen	×
[V]AII			
			Switch Mode

Figure 3-11

♦ Adjust Screen

Note

This function is for some screens only.

Click Adjust screen button, you can go to the following interface. Select a screen; you can see its color is yellow. Use "+" or "-" to adjust the parameters on the DVI,VGA,video mode. Please set according to the device hardware. See Figure 3-12.

Screen Power	Screen BLC Mode	Adjust Screen	×
DVI	VGA	Video	
- Brightn	ess + -	Contrast +	- VerPosition +
- Cloc	k +		

Figure 3-12

Section 10: Close full-screen monitor

It is to close all monitor channel of current TV screen.
3.4 Video Wall Splicing (Display Pane) Function

The video wall splicing function is to output several physical video walls (1-9 screens) to one screen and can be used as one screen (Such as Test1 in Figure 3-13). The 4-channel 4K high definition series supports 1×1 , 2×1 , 1×2 , 2×2 splicing mode.

The 4-channel high definition series supports 2×2 splicing mode.

The 9-channel high definition series supports 2×2 , 2×3 , 3×2 , 2×4 , 4×2 , 3×3 modes.

The 16-channel high definition series supports 2×2 , 2×3 , 3×2 , 2×4 , 4×2 , 3×3 , 3×4 , 4×3 , 3×5 , 5×3 , 4×4 modes.

Important

The splicing video wall (display pane) can be used as one physical TV screen. It can share the device on the device tree and supports monitor enable/disable function. It does not support channel map and playback function.



Figure 3-13

Please follow the contents below for a splicing video wall setup. **Step 1**

In the main interface, click the Splice button Splicing Wall on the left pane; you can see system pops up the following interface. See Figure 3-14.



Figure 3-14

Step 2

Select screens. See Figure 3-15.

- Left click mouse to select one.
- Left click mouse +Ctrl button to select more screens.
 splicing Wall

1	1. Left click mouse or left click+Ctrl to check more 2. For non-splicing mode, please select and then drag												
3	、Select s	plice and t	then input a	a name to o	create splici	ng wall	4.	Select a s	splicing wa	all and ther	n click dele	te button	
	1	2											
			Screen3	Screen6	Screen9				1				
	4	5					- 4 -		, , , , , , , , , , , , , , , , , , , ,				
	4		Screen7	Screen8									
	Monite	orWall							, , , , , , , , , , , , , , , , , , , ,				
									1				
	1						1						
							****		, , , , , , , , , , , , , , , , , , ,				
	· · · · · · · · · · · · · · · · · · ·						- 4 -	·					

							- 4 -	· · · · · · · · · · · · · · · · · · ·	· 4				
								1					
E							į.						
										Splice	D	elete	

Figure 3-15

×

. Left clic	ck mouse o	r left click+	Ctrl to ch	neck more	2、For	non-splicing r	node, please	select and then drag
Select	splice and	then input a	a name to	o create splicing v	vall 4、Sele	ect a splicing	wall and then	click delete button
Screen1	Screen2	Screen3						
Screen4	Screen5	Screen6						
Screen7	Screen8	Screen9	Name	MonitorWall		Save	Cancel	
			 		, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,		,

Figure 3-16

Step 4

In Figure 3-16, you can input customized splicing wall name. Click Save button to save current setup.

Step 5

Now you can close splicing wall interface and then go back to the main interface. The splicing wall can be used as a physical screen. It supports 1/4/9/16 split, add/delete device, open/close all-channel monitor.

Note

The general operation is the same as the physical screen. But for the splicing wall, there is no playback function and you can not control the corresponding physical screens of the splicing wall.

Cancel splicing wall

In the main interface, click the Splice button E Splicing V	Nall	on the left p	ane; you can
go to Figure 3-14. Select a splicing wall first and then click		Delete	button, you
can remove the selected splicing wall.			

Note

The corresponding physical screens are off after you created a splicing wall. After you delete the splicing wall, the corresponding physical screens are off too.

3.5 Add /Remove Front-end Device

3.5.1 Add device

Click Add Device button in the main window. System pops up the following dialogue box.

Here you need to input the front-end device information including manufacturer (Private, Onvif, and General), connection mode (TCP, UDP, AUTO) device name, device IP, port, device user name and password. See Figure 3-17.

Figure 3-17

After inputting the corresponding information, please click OK button. You can see the device begins to connect the newly added front-end device. System auto lists the channel information after successful connection. For newly added private device, device displays as online. Double click the device; you can see it becomes offline. For Onvif and General device, system displays an icon only. You can just drag the icon to the screen. See Figure 3-18.



Figure 3-18

Click, you can modify device name.

3.5.2 Delete Device

Note

You can not delete the decoding device.

Select one front-end device and then click delete device button, system can remove it from the list.

3.6 Decode Channel Setup

Please select the output TV and position and then select the device channel in the device list. Double click channel name or drag the channel name to the destination position and then release. See Figure 3-19.

WEB SERVICE		TV Wall Deco	der SETTING Mainta	in Log Out
Monito/Wall Screen1, Screen2, Screen4 , Screen5, Screen5(21-24) Screen6(33-36) Screen7(37-40) Screen8(41-44) Screen9(45-48)	21 Som ● test 10.15.6.123 Channel2 Main Stream	22		 (172.9.5.69 onvit) (172.9.5.68 onvit) test(10.15.6.123) Channel1 Channel3 Channel4 Channel5 Channel5 Channel6 Channel7 Channel8 Channel9 Channel9 Channel11 Channel111 Channel12
E Splicing Wall	23	24		Channel13 Channel14 Channel15 Channel16 Channel17 Channel18 Channel20 Channel20 Channel22 Channel23 Channel23 Channel25 Channel25 Channel25 Channel27 Channel27
	Full-Screen		🕇 TV Adjust	+ Add Device × Del Device PlayByFile PlayByTime

Figure 3-19

Right click channel of the front-end, you can enable main stream or sub stream. See Figure 3-20.



Figure 3-20

- Signature Section Stream Stream.
- . Open main stream.
- Screen on-off button.
 Open.
 Close.

3.7 File Playback and Time Playback

Note

Playback function is for private device only.

You can select a device you want to playback and then select the corresponding playback mode. There are two modes: file playback and time playback.

3.7.1 File Playback

Please select a online device first and then select playback by file button. You can see the following interface. See Figure 3-21.



Figure 3-21

Please select the decode channel, record type and then select start time/end time, click search button, you can see an interface is shown as below. See Figure 3-22.

PlayByFi	le Play	ByTime						
Channel	1 💌	Start Time 2014 -	04 - 30 00 : 00	: 00				
Гуре	All 💌	End Time 2014 -	05 - 30 23 : 23	: 59	Q Search			
Source IP: 10	.15.6.50 Loca	al Channel: Screen3View21						
No.	Size(KB)	Start Time	End Time	Туре	Input Channel	Code-Stream Type	Play	
1	13922KB	2014-05-22 09:39:33	2014-05-22 09:53:27	Regular	1	Main Stream	0	
2	16472KB	2014-05-22 09:54:46	2014-05-22 10:11:23	Regular	1	Main Stream		
3	21797KB	2014-05-22 10:12:30	2014-05-22 10:34:40	Regular	1	Main Stream	0	
4	81049KB	2014-05-22 10:35:45	2014-05-22 12:00:02	Regular	1	Main Stream	0	
5	58520KB	2014-05-22 12:00:02	2014-05-22 13:00:02	Regular	1	Main Stream	0	
6	7532KB	2014-05-22 13:00:02	2014-05-22 13:07:25	Regular	1	Main Stream	0	
7	38718KB	2014-05-22 14:20:07	2014-05-22 15:00:03	Regular	1	Main Stream	0	
8	11782KB	2014-05-22 15:00:03	2014-05-22 15:11:51	Regular	1	Main Stream	0	
9	1882KB	2014-05-30 08:56:48	2014-05-30 09:03:01	Regular	1	Sub Stream	0	



~	~~
·	-74
ັ	-20.

ource IP: 10.	15.6.50 Loc	al Channel: Screen3View21					
No.	Size(KB)	Start Time	End Time	Туре	Input Channel	Code-Stream Type	Play
1	13922KB	2014-05-22 09:39:33	2014-05-22 09:53:27	Regular	1	Main Stream	
2	16472KB	2014-05-22 09:54:46	2014-05-22 10:11:23	Regular	1	Main Stream	0
3	21797KB	2014-05-22 10:12:30	2014-05-22 10:34:40	Regular	1	Main Stream	0
4	81049KB	2014-05-22 10:35:45	2014-05-22 12:00:02	Regular	1	Main Stream	0
5	58520KB	2014-05-22 12:00:02	2014-05-22 13:00:02	Regular	1	Main Stream	0
6	7532KB	2014-05-22 13:00:02	2014-05-22 13:07:25	Regular	1	Main Stream	0
7	38718KB	2014-05-22 14:20:07	2014-05-22 15:00:03	Regular	1	Main Stream	0
8	11782KB	2014-05-22 15:00:03	2014-05-22 15:11:51	Regular	1	Main Stream	0
9	1882KB	2014-05-30 08:56:48	2014-05-30 09:03:01	Regular	1	Sub Stream	0



The main interface is shown as below. See Figure 3-24.Click the process bar to adjust file playback position. Or you can click button to play, pause, and stop.



Figure 3-24

Double click decode channel, you can view in full screen.

The playback bar is shown as below. See Figure 3-25.

The three buttons ranges from left to the right are: playback, pause, and stop.



Figure 3-25

Note:

- If you searched device is offline, system prompts "Channel search failed" or "No record".
- System max supports 4-channel playback at the same time.
- System can not playback the same camera of one device at different channels.

3.7.2 Time Playback

In Figure 3-21 or the main interface, click playback by time button, you can see an interface shown as in Figure 3-26.

PlayByFile	PlayByTime	
Channel 1	Start Time	2014 - 05 - 30 00 : 00 : 00
	End Time	2014 - 05 - 30 23 : 23 : 59 Play
Source IP: 10.15.6.50	Local Channel: Scre	en3View23

Figure 3-26

Please select corresponding time period and channel, and then click playback button, system can playback automatically.

PlayByFile	PlayByTime	
Channel 1	Start Time	2014 - 04 - 30 00 : 00 : 00 2014 - 05 - 30 23 : 23 : 59
Source IP: 10.15.6.50	Local Channel: Scree	n3View21 2014-05-30 23:23:59 ①
2014 04 00 00.00.00 (0	

The playback bar is the same with file playback mode.

Note:

TV window is shown as black if there is no record in current specified period.

3.8 Decoder

3.8.1 Decode Tour

Here you can set decode output channel and tour channel.

Decode tour means the decode channels of the decoder can bind the 32 channels on the network. It can display the 32 channels by the specified sequence and interval.

1) On the main menu, from decoder->decode tour; you can see the following interface. See Figure 3-27.

Screen No.	Alarm Channel	Status	Tour Control	Tour Settings	
Screen1	Channel1	Tour is disabled	\triangleright	₹Ĝ}•	^
Screen1	Channel2	Tour is disabled	\triangleright	₹ <u>`</u> }}	
Screen1	Channel3	Tour is disabled	\triangleright	£Ĝ₽	
Screen1	Channel4	Tour is disabled	\triangleright	₹ <u>Ĝ</u> }	=
Screen1	Channel5	Tour is disabled		₹Ĝ‡	
Screen1	Channel6	Tour is disabled	\triangleright	₹ <u>`</u> j}÷	
Screen1	Channel7	Tour is disabled		₹ <u>ģ</u> ≩	
Screen1	Channel8	Tour is disabled	\triangleright	₹ <u>`</u> ĵ}	
Screen1	Channel9	Tour is disabled		<i>≨</i> ĝ}	
Screen1	Channel10	Tour is disabled	\triangleright	₹ <u>`</u> ĵ}	
Screen1	Channel11	Tour is disabled		<i>≨</i> ĝ}	
Screen1	Channel12	Tour is disabled	⊳	₹ <u>`</u> j}:	
Screen1	Channel13	Tour is disabled		<i>≨</i> ĝ}	
Screen1	Channel14	Tour is disabled	\triangleright	₹ <u>`</u> ĵ}	
Screen1	Channel15	Tour is disabled		<i>≨</i> ĝ}	
Screen1	Channel16	Tour is disabled	\triangleright	₹ <u>`</u> ĵ}	
Screen2	Channel17	Tour is disabled	b l	4Ô}	~

Figure 3-27

2) Double click a channel you want to set or click , you can set channel tour detailed information. See Figure 3-28.

Channel1Detailed Int	formation	X
Tour Info		
	Network Signal	
Protocol Type	Private	
Connection Mode	TCP	
IP		
Port	37777	
Channel	1	
Code-Stream Type	Main Stream -	
Username		
Password		
Interval	10 (10~99999)Second	
No. Manufac	turer IP/URL Port Channel Type Interval Dele	ete
Save	sh	

Figure 3-28

Please refer to the following sheet to set tour information.

Parameter	Note
Protocol type	It includes: private, Onvif, General.
Connection	For different device modes, the connection mode may vary.
mode	
IP	Front-end device IP address.
Port	Default setup is 37777.
Channel	The channel of the front-end device.
Bit stream type	The bit stream type of the tour window. It includes the main stream and
	the sub stream.
User name	The user name of the remote device.
Password	The password of the remote device.
Interval	The tour interval.

In Figure 3-28, click Local Signal; you can see the following interface. See Figure 3-29.

Tour Info								
	O Networ	k Signal 🔘 Lo	ocal Signal					
Local Channel	Channel0	1	•					
Interval	10		(10~99999)Second				
Add D	elete	Modify						
🔲 No. Manut	acturer	IP/URL	Port	Channel	Code-Stream Type	Interval	Delete	
								I

Please note this function is for 4-channel 4K high definition series.

Figure 3-29

Please refer to the following sheet to set tour information.

Parameter	Note
Local Channel	Please select from the dropdown list.
Interval	It is to set tour interval.

- 3) Click add button to complete the add operation.
- 4) Click Save button.
- 5) Click b to enable tour.
- **I**: Stop tour.
- II : Pause tour.

3.8.2 Decode Output

On the main window, from decoder->decoded info, interface is shown as below. See Figure 3-30.

Here you can view current decode information.

- Status: Current channel working status. There are four statuses: Monitor/Playback/Tour/Idle.
- Resolution: Here you can view video resolution of current channel.

- FPS: You can view the frame rate of current channel.
- Data Flow: You can view the network data flow current channel received.
- Decode flow: You can view the output video flow current channel decoded.

ecoded Info						
Channel	Status	Resolution	FPS	Date Flow(kb/s)	Decoded Flow(kb/s)	
Channel1	Idle		0	0	0	
Channel2	Idle		0	0	0	
Channel3	Idle		0	0	0	
Channel4	Idle		0	0	0	
Channel5	Idle		0	0	0	
Channel6	Idle		0	0	0	
Channel7	Idle		0	0	0	
Channel8	Idle		0	0	0	
Channel9	Idle		0	0	0	
Channel10	Idle		0	0	0	
Channel11	Idle		0	0	0	
Channel12	Idle		0	0	0	
Channel13	Idle		0	0	0	
Channel14	Idle		0	0	0	
Channel15	Idle		0	0	0	
Channel16	Idle		0	0	0	
Channel17	Idle		0	0	0	

Figure 3-30

3.8.3 Decode Strategy

On the main menu, from decoder->decoded policy, you can set the delay time of decoder in each decode channel, the buffer time is ms. See Figure 3-31.

- Channel number: The 1-channel 4K high definition series/1-channel high definition series supports 1-16-channel. The 9-channel high definition series supports 1-48-channel. The 4-channel 4K high definition series/ 16-channel high definition series supports 1-64-channel.
- Decode buffer time: The value ranges from 80ms to 480ms.

Decoded Policy	
Channel No. Decoding buffer time	1 • 160 80~480 ms
Decoding builer time	
	Copy Save Refresh

Figure 3-31

3.8.4 Screen Show

On the main menu, from decoder->screen No. overlay, you can see the following interface. See Figure 3-32.

It is for you to overlay device IP and TV number of current channel at the top left corner of current channel output interface. For 1-channel 4K high definition series product, the device IP and TV number is on the top left corner of the screen.

Important

This function is not for splicing video wall.

ScreenNo. Overlay
All Channels
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Save Refresh

Figure 3-32

3.8.5 Output Options

Note

This function is for 1-channel 4K high definition series and 9-channel high definition series product only.

Here you can set output screen port. Please make sure it is the same as the connected port setup.

Select Screen No. and its corresponding port type from the dropdown list and then click Save button to complete setup. See Figure 3-33.

Output Options	
Output Screen No	1
Output Type	VGA 🔹
	Save Refresh

Figure 3-33

3.8.6 Background Color

Note

This function is for 4-channel 4K high definition series and 9/16-channel high definition series.

On the main menu, from decoder->Background color, you can see the following interface. See Figure 3-34.

It is to set the background color of the screen. There are two options: blue (default)/black.

Background Color	
Background Color	Blue
	Save Refresh

Figure 3-34

3.8.7 Split Line

Note

This function is for 4-channel 4K high definition series and 9/16-channel high definition series.

On the main menu, from decoder->Split Line, you can see the following interface. See Figure 3-35.

Here you can set the split line for the decoded channels. The default setup is null.

Split Line	
Split Line	⊙ Yes
	Save Refresh

Figure 3-35

3.9 Setting

3.9.1 General

3.9.1.1 General

From Setting->General->General, you can see the following interface. See Figure 3-36.

- Device name: Input customized device name here.
- Device No. Default number is 8. The value ranges from 0 to 998.
- Language: It is to display device language.
- Video standard: It is to display system video standard: PAL/NTSC.

GENERAL Date&Ti	ne
Device ID NVD	
Device No. 8	
Language ENGLISH	~
Video Standard PAL	~
Save	Refres
L	

Figure 3-36

3.9.1.2 Date&Time

From Setting->General->Date&Time, the interface is shown as below. See Figure 3-37.

- Date format: There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Time format: There are two options: 12-hour/24-hour.
- Date separator: There are three denotations to separate date: dot, beeline and solidus.
- DST: Here you can set DST time and date. Here you can set start time and end time by setting corresponding week setup or by setting corresponding date setup.
- NTP: It is to set NTP server information.

GENERAL	Date&Time
Date Format	YYYY MM DD
Time Format	24-HOUR
Date Separator	· •
System Time	2014 - 05 - 30 14 : 34 : 35 Sync PC Time Zone GMT+08:00
DST	
DST Type	O Date 💿 Week
Start Time	Jan 💌 Last Week 💌 Sunday 💌 00 : 00
End Time	Jan 💌 Last Week 💌 Sunday 💌 00 : 00
NTP	
Server	NTPServer Manual Update
Port	123 (1~65535)
Update Period	10 Minute (0~65535)
	Save Refresh

Figure 3-37

3.9.2 Network

3.9.2.1 TCP/IP

From Setting->Network->TCP/IP, TCP/IP interface is shown as below. See Figure 3-38 (1/4/9-channel high definition single-Ethernet card series) and Figure 3-39 (16-channel high definition dual-Ethernet card series).

- Network Mode:
- Multiple-address mode: eth0 and eth1 operate separately. You can use the services such as HTTP, RTP service via eth00 or the eth1. Usually you need to set one default card (default setup is eth0) to request the auto network service form the device-end such as DHCP, email, FTP and etc. In multiple-address mode, system network status is shown as offline once one card is offline.
- Network fault-tolerance: In this mode, device uses bond0 to communicate with the external devices. You can focus on one host IP address. At the same time, you need to set one master card. Usually there is only one running card (master card).System can enable alternate card when the master card is malfunction. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.
- Load balance: In this mode, device uses bond0 to communicate with the external device. The eth0 and eth1 are both working now and bearing the network load. Their network load are general the same. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.
- Default card: Please select the network card first. Default port is Ethernet card1.

Please note the above function is for dual-Ethernet card series product only.

- Mode: There are two modes: static mode and the DHCP mode.
- The IP/sub mask/gateway are null when you select the DHCP mode to auto search the IP.
- If you select the static mode, you need to set the IP/submask/gateway manually.
- * If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP.
- If you switch from the DHCP mode to the static mode, you need to reset the IP parameters.

Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.

- MAC address: The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
- IP Version: There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
- IP address: Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
- Default gateway: Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.
- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.

Note

For IPv6, the IP address, default gateway, preferred DNS, alternate DNS shall be 128-digit and shall be left in blank.

TCP/IP	Port	HTTPS	
Mode	O Static ○ DHCP		
MAC Address	90 . 02 . A9 .	05 . D6 . E4	
IP Version	IPv4	M	
IP Address	10 . 15 . 6 .	144	
Subnet Mask	255 . 255 . 0 .	0	
Default Gateway	10 . 15 . 0 .	1	
Preferred DNS	8.8.8.	8	
Alternate DNS	8.8.4.	4	
	Save Ref	resh	

Figure 3-38

TCP/IP	Port HTTPS
Network Mode	Multi-address
Default Card	Ethernet Card1
thernet Card	Ethernet Card1
lode	Static DHCP
MAC Address	20 . 32 . 04 . 01 . 50 . 37
P Version	IPv4
^D Address	171 . 5 . 14 . 51
Subnet Mask	255 . 255 . 255 . 0
Default Gateway	171 . 5 . 14 . 1
Preferred DNS	8 . 8 . 8 . 8
Alternate DNS	8 . 8 . 4 . 4

Figure 3-39

3.9.2.2 Port

From Setting->Network->port, port interface is shown as below. See Figure 3-40.

- Max connection: It is the max Web connection for the same device. The value ranges from 1 to 120. The default setup is 120.
- TCP port: The default value is 37777. You can input the actual port number if necessary.
- UDP port: The default value is 37778. You can input the actual port number if necessary.
- HTTP port: The default value is 80. You can input the actual port number if necessary.
- HTTPS: The default value is 443. You can input the actual port number if necessary.

TCP/IP	Port	HTTPS	
Max Connection	10	(0~10)	
TCP Port	37777	(1025~65535)	
UDP Port	37778	(1025~65535)	
HTTP Port	80	(1~65535)	
HTTPS Port	443	(128~65535)	
	Save Refi	resh	

Figure 3-40

3.9.2.3 HTTPS

In this interface, you can set to make sure the PC can successfully login via the HTTPS. It is to guarantee communication data security. The reliable and stable technology can secure the user information security and device safety. See Figure 3-41.

Note

- You need to implement server certificate again if you have changed device IP.
- You need to download root certificate if it is your first time to use HTTPS on current PC.

TCP/IP	Port	HTTPS
Create Server Certifi	ficate Download Root Cer	tificate

Figure 3-41

3.9.3 RS232

3.9.3.1 RS232

From Setting->RS232->RS232, you can see RS232 interface is shown as below. See Figure 3-42.

- Function: There are various devices for you to select. Console is for you to use the COM or mini-end software to upgrade or debug the program. The control keyboard is for you to control the device via the special keyboard. Transparent COM (adapter) is to connect to the PC to transfer data directly. Protocol COM is for card overlay function. Network keyboard is for you to use the special keyboard to control the device. PTZ matrix is to connect to the peripheral matrix control.
- Baud rate: You can select proper baud rate.
- Data bit: You can select proper data bit. The value ranges from 5 to 8.
- Stop bit: There are two values: 1/2.
- Parity: There are five choices: none/odd/even/space mark.

System default setup is:

- Function: Console
- Baud rate:115200
- Data bit:8
- Stop bit:1
- Parity: None

Note

- 1-channel 4K high definition series product has no RS232 function. It only has transfer COM function.
- 4- channel 4K high definition series product default setup: Baud rate:115200(read-only), data bit: 8, stop bit: 1, parity: none.

R\$232	Transfer COM	
Function	Console 💌	
Baud Rate	115200	
Data Bit	8	
Stop Bit	1	
Parity	None 💌	
	Save Refresh	

Figure 3-42

3.9.3.2 Transfer COM

From Setting->RS232->transfer COM, you can see the interface is shown as in Figure 3-43.

After you input local COM and remote COM information, you can control the camera. Click the Add button to complete.

Important

The local COM and the remote COM parameter shall be the same; otherwise you can not control the camera!

RS232	Transfer COM			
Local COM		Remote COM		
COM	RS485 1	COM	RS485 1	
Baud Rate	115200	Baud Rate	115200	
Data Bit	8	Data Bit	8	
Stop Bit	1	Stop Bit	1	
Parity	None 💌	Parity	None	
		IP		
		Remote Baud		
N	o. Local COM Remote COM	Remote IP Rate	Remote Data Bit Remote Stop Bit Remote Parity	Delete
				<u>~</u>
				<u>~</u>
Add D	elete Modify		Save	Refresh
100	induity		Jave	Kenesii

Figure 3-43

Transparent Forwarding Connection

Connect speed dome to encoder or DVR via RS485. The decoder can add encoder or DVR via network. Connect network keyboard or DVR to the decoder via RS485. See Figure 3-44.





- 1) The dial switch address of the analog speed dome shall not be the same.
- 2) After you connected the analog speed dome to the encoder via RS485, please connect the corresponding AB cable. See Figure 3-45.



Figure 3-45

- Please refer to Figure 3-46 to connect the decoder to the network keyboard or DVR via RS485.
 - Connect the R0+ to T0+ of the decoder directly and then connect to the A cable of the network keyboard or DVR.
 - Connect the R0+ to T0+ of the decoder directly and then connect to the B cable of the network keyboard or DVR.





- 4) When you set the PTZ setup of the network keyboard or the DVR, please make sure the baud rate setup shall be the same with the setup of the analog speed dome.
- 5) When you set the PTZ setup of the network keyboard, DVR, encoder, please make sure the protocol setup shall be the same.

Transparent Forwarding Operation Steps

- Set network speed dome. Set the baud rate of the network speed dome. When the 5/6 is up, the baud rate is 9600. When the 5 is down and 6 is up, the baud rate is 4800. When the 5 is up and 6 is down, the baud rate is 2400. When the 5/6 is down, the baud rate is 1200. Here we set baud rate as 2400.
- 2) Set encoder or DVR. When you connect network speed dome to the encoder or DVR via RS485, you need to set PTZ setup. See Figure 3-47.

	SETTING		
😋 CAMERA	👼 NETWORK 🛛 📆 EVENT	STORAGE	SYSTEM
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Channel 1 Protocol NONE Address 1 Baud Rate 9600 Data Bits 8 Stop Bits 1.5 Check None		
	Default Copy	Save	Cancel Apply

Figure 3-47

- 3) Set decoder. Please refer to chapter 3.10.3 transparent forwarding to set.
- 4) Connect network keyboard or DVR to the decoder via RS485.

♦ About network keyboard setup

From user menu-remote control, input 0+PT to go to PTZ setup. Here you can set protocol, address, baud rate, data bit, stop bit, parity and etc. See Figure 3-48.

Important

When you connect network keyboard to decoder via RS485, please make sure the network keyboard setup is the same as the PTZ setup of the encoder. Otherwise you can not control.

PAN/TILT/ZOOM					
PROT Address	PELCOD -				
Baudrate	2400 🔽				
Data Bit	8 🔻				
Stop Bit	1				
Parity	None 📐 🔻				
Default Save	Cancel				

Figure 3-48

♦ About DVR Setup

From the main menu, System->PTZ, you can set corresponding baud rate, protocol, address, data bit, stop bit, parity and etc.

5) After you set, please click the corresponding network keyboard or DVR input channel, you can go to the PTZ interface to control the network speed dome PTZ operation.

3.9.3.3 Screen Control

Note

This function is for 4-channel 4K high definition series product.

From Setting->RS232->Screen control, you can go to the following interface. See Figure 3-49.

Before the operation, please connect the RS232 port of the RJ45 port of the device to the RJ45 port of the screen.

- Name; The corresponding TV wall.
- Device type: It is to display device type such as LCD, DLP.
- Control protocol: It is the control protocol of the display device.
- Baud rate: Baud rate of the communication COM protocol.
- Data bit: Data bit of the communication COM protocol.
- Stop bit: Stop bit of the communication COM protocol.

- Parity: Parity value of the communication COM protocol.
- Address code: It is corresponding to the address code of display device.
- Screen No.: It is the corresponding screen number.

RS232	Transfer CO	M Screen Control		
Name	Screen1	•		
Device Type	LCD	Control Protocol Dahua_I	•	
Baudrate	9600	Data Bit 8	-	
Stop Bit	1	Parity None	•	
	row-column	Address Code	Screen No.	Screen ControlID
	1_1	11	1	0
				*
0.000	Defeat			
Save	Refresh			



3.9.4 Alarm

3.9.4.1 Alarm

The 16-channel high definition series product does not support alarm function.

From Setting->Alarm->Alarm, the alarm interface is shown as below. See Figure 3-50.

- Enable: You need to draw a circle here so that system can detect the alarm signal.
- Alarm in: Here is for you to select channel number.
- Type: Normal open or normal close.
- Period: Click set button, you can see an interface is shown as in Figure 3-51. There are max 6 periods in one day.
- Alarm Out: Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
- Latch: System can delay the alarm output for specified time after alarm ended. The value ranges from 10 seconds to 300 seconds.
- Latch: System can delay the alarm output for specified time after alarm ended. The value ranges from 10 seconds to 300 seconds.
- Tour: Check the box here to enable this function. It is to set main TV output of the tour channel when an alarm signal occurred.
- Copy: It is a shortcut menu button. You can copy current channel setup to one or more (all) channels.
- Save: You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.

• Refresh: Click this button to get device latest configuration information.

Alarm	Alarm Info
Enable	1 Type Normal Open
Period	Setup Anti-dither 5 Second(0-15)
Alarm Out	1 2 3 4 5 6 7 8
Latch	10 Second(10-300)
✓ Tour	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
	Copy Save Refresh



E. L		0.000	
Friday	*	Сору	
✓ 00 :	00 -	24 : 00	
00 :	00 -	24 : 00	
00 :	00 -	24 : 00	
00 :	00 -	24 : 00	
00 :	00 -	24 : 00	
00 :	00 -	24 : 00	
Save		Cancel]
0410		Cancor	

Figure 3-51

3.9.4.2 Alarm Info

From Setting->Alarm->Alarm info, alarm info interface is shown as in Figure 3-52.

- External alarm: It is an alarm from external alarm device.
- DSP alarm: It is video format alarm. For example, your decoder is PAL while you connected front-end device is NTSC, which can generate a DSP alarm.

Alarm	Alarm Info					
Alarm Alarm Type External Alarm Abnormal Alarm Operation Prompt Alarm Sound	Alarm Info		No.	Time	Alarm Type	Alarm Channel
Alarm Sound		Select				

Figure 3-52

3.9.5 Resolution

From Setting->Resolution, the resolution interface is shown as below. See Figure 3-53. Resolution: It is to set the decoder resolution. It refers to the screen output resolution. Right now there are four options: 1280*1024, 1280*720, 1920*1080, and 1024*768. 1/4-channel 4K high definition series product supports 3840×2160 extra high definition output.

Resolution			
Resolution	1024*768	~	
	Save	Refresh	
	ouro		

Figure 3-53

3.9.6 Account

From Setting->Account, here you can add, remove user or modify password. See Figure 3-54.

User

System default user name includes:

- User name: admin, password: admin;
- User name: 888888, password: 888888;
- User name: 666666, password: 666666;
- User name: **default**, password: **default**. Please note it is the hidden user.

SN User Group Name Memo Modify Delete 1 88888 admin admin(888)'s account . © 2 666666 user 666666 user's account . © 3 admin admin admin 's account . © 4 default user default account . © Authority Shutdown Real-time Monitor Playback Account System Undvie Auto Maintain General Setup Network Setup Alarm Setup Default Decoded Tour Remote Device	User	Group				
2 666666 user 666666 user's account Image: Constraint of the second of the seco						
3 admin admin admin's account Image: Constraint of the second of the seco	1	888888	admin	admin(888) 's account	2	8
4 default user default account Control of the second of	2	666666	user	666666 user's account	1	8
Authority Shutdown Real-time Monitor Playback Account System Info View System Config Query Log Info Clear Log System Update Auto Maintain General Setup Network Setup	3	admin	admin	admin 's account	2	0
Authority Shutdown Real-time Monitor Playback Account System Info View System Config Query Log Info Clear Log System Update Auto Maintain General Setup Network Setup	4	default	user	default account		8
System Info View System Config Query Log Info Clear Log System Update Auto Maintain General Setup Network Setup						
System Update Auto Maintain General Setup Network Setup						
	Shutdown					
Alarm Setup Default Decoded Tour Remote Device	Shutdown System Info View	System Config	Query Log Info	Clear Log		
	Shutdown System Info View System Update	System Config Auto Maintain	Query Log Info General Setup	Clear Log Network Setup		

Figure 3-54

Add User

Click add user button, the interface is shown as in Figure 3-55.

Please input the user name, password, select the group it belongs to from the dropdown list. Check the reusable button so that multiple users can use the same account to login at the same time.

Then you can check the corresponding rights for current user.

For convenient user management, usually we recommend the general user right is lower than the admin account.

Click Save button to complete the setup.

dd User		×
User Name		
Reuseable		
Password		
1 05511010	Low Middle High	
Confirm Password		
Group	admin	
Memo		
Authority		
Addiony	System	
✓AII		
Shutdown	Real-time Monitor	Playback
✓Shutdown ✓Account		✓Playback ✓System Config
Account	System Info View	System Config
	☑System Info View ☑Clear Log	☑System Config ☑System Update
☑Account ☑Query Log Info	System Info View	System Config
 ✓Account ✓Query Log Info ✓Auto Maintain 	☑System Info View ☑Clear Log ☑General Setup	System Config System Update
 ✓Account ✓Query Log Info ✓Auto Maintain ✓Alarm Setup 	☑System Info View ☑Clear Log ☑General Setup	System Config System Update

Figure 3-55

Modify User

In Figure 3-54, Click Modify button; you can change current user memory information, group, password and authorities. See Figure 3-56.

lodify User		1
User Name	888888	•
User Name	888888	
Reuseable		
Group	admin	v
Memo	admin(888) 's account	
Modify Password		
Authority		
	System	
All		and an external sectors
Shutdown	Real-time Monitor	Playback
Account	System Info View	System Config
Query Log Info	Clear Log	System Update
Auto Maintain	General Setup	Network Setup
Alarm Setup	☑Default	Decoded Tour
Remote Device		

Figure 3-56

Modify Password

In Figure 3-56, check Modify password button, please input old password and then input the new password twice to complete the setup. Click OK button to save.

The password shall be 1-6-digit. The space at the front or the last space is invalid. The space shall be in the middle. For the user of the account right, it can change the password of other user.

Group

Click Group button, the interface is shown as below. Here you can add/delete group, or change group password and etc. See Figure 3-57.

Account						
User	Group					
SN	Gro	up Name		Memo	Modify	Delete
1	4	admin		administrator group	2	8
2		user		user group	2	8
Authority						
Shutdown	Real-time Monitor	Playback	Account			
System Info View	System Config	Query Log Info	Clear Log			
System Update	Auto Maintain	General Setup	Network Setup			
Alarm Setup	Default	Decoded Tour	Remote Device			
Add Group						
Add Group						

Figure 3-57

Add Group

Click add group button, the interface is shown as below. See Figure 3-58. Here you can input group name and then input some memo information if necessary.

Group Name			
Memo			
Authority			
	System		
✓AII ✓Shutdown ✓Account ✓Query Log Info ✓Auto Maintain ✓Alarm Setup	 Real-time Monitor System Info View Clear Log General Setup Default 	 Playback System Config System Update Network Setup Decoded Tour 	
Remote Device			
	Save Car	icel	

Figure 3-58

Modify Group

In Figure 3-57, click Modify button, you can see the following interface. Here you change group memory information, authorities and etc. See Figure 3-59.

Group Name	admin 🔹	
Group Name	admin	
Memo	administrator group	
Authority		
	System	
ZAII ZShutdown ZAccount ZQuery Log Info ZAuto Maintain ZAlarm Setup ZRemote Device	 Real-time Monitor System Info View Clear Log General Setup Default 	 Playback System Config System Update Network Setup Decoded Tour
		and a large state of the state
	Save Can	icel

Figure 3-59

3.10 Maintain

3.10.1 Version

From Maintain->Version, here you can view device hardware feature and software version information. See Figure 3-60.

Version	
Alarm In:	16
Alarm Out:	8
SN:	YPA2KQ01700034
Web:	2.2.0.31
System Version:	3.200.0.0
Build Date:	2014-05-22

Figure 3-60

3.10.2 Log

From Maintain->log, here you can view system log. See Figure 3-61.

- Type: Log types include: system operation, configuration operation, alarm event, user management, log clear.
- Search: You can select log type from the drop down list and then click search button to view the list.
- Clear: You can click this button to delete all displayed log files.
- Backup: You can click this button to backup log files to current PC.

Log		
Start Time	2014 - 05 - 28 00 : 00 : 00	End Time 2014 - 05 - 31 00 : 00 : 00
Types	All Search Match	hed 33 logs Record Time 2014-05-29 10:34:41 2014-05-30 14:41:09
No.	Time	Event
1	2014-05-29 10:34:41	Shut down
2	2014-05-29 10:34:41	Boot up
3	2014-05-29 10:38:21	User logged in
4	2014-05-29 10:43:41	User logged in
5	2014-05-29 10:43:41	Synchronize system time
6	2014-05-29 10:43:41	System Upgrade
7	2014-05-29 10:46:23	System Upgrade
8	2014-05-29 10:46:23	Shut down
ystem Log Info		
		M 🖣 1/1 🕨 🕅 Go To 1
Backup		Clear



Click backup button, the interface is shown as in Figure 3-62.

Save As	? 🔀
Save jn: 🞯 Desktop 💌 🔶 🋍	i 💣 🎟 -
My Computer	
My Documents	
Second Se	
File name: 2010-03-15 11_40_33(All)	<u>S</u> ave
Save as type: Log File(*.log)	Cancel
2. [3(/

Figure 3-62

3.10.3 Sniffer

From Maintain->Sniffer, you can go to Sniffer interface. In this interface you can save Sniffer data to a flash drive.

Please follow the steps listed below.

 Insert flash drive to the USB port at the front panel of the decoder and then click refresh button. After you see device name, space, you can see system has detected flash drive. Now you can go to the next step. See Figure 3-63.

		Sniffer								
		Device Name	/dev/sda1	~	Uninstall					
		Ethernet Card	eth0	~						
		Total/Free	1.87GB/1.36GB		Start Sniffer					
		Path								
		Name				Size	Rename	Delete		
		0882					Ø	8		
		0881					Ø	8		
									~	
		Format	1	Vew Folder	Delete	Refresh				
					Figure 3-6	3				
			0							
2)	In	Figure 3-63,	click	tart Sniffer	button,	you can s	ee syste	em writ	es data f	to the
	fla	sh drive and	the Sta	rt Sniffer	button be	comes	Stop S	niffer	button.	See
	<u> </u>	0.04								
	ΕI	gure 3-64.								
		Sniffer								
		Design								
		Device Name Ethernet Card	/dev/sda1		Uninstall					
		Ethernet Card Total/Free	eth0 1.87GB/1.36GB	M	Stop Sniffer					
		Path			Stop Shiller					
				_			_			
		Name				Size	Rename	Delete		
							6	W		

 None
 Ote
 New Folder

Figure 3-64

3) Click Stop Sniffer button, system stops writing data to the flash drive. Click refresh button, you can see a file with extension name. pcap. See Figure 3-65.

			1			
Device Name	/dev/sda1	Uninstall				
Ethernet Card	eth0 💌					
Total/Free	1.87GB/1.36GB	Start Sniffer				
Path						
Nam	ie:		Size	Rename	Delete	
0882				0	0	
0881				Ø	8	
eth0-201405301	55649.pcap		156.15KB	se la companya de la	8	

Figure 3-65

4) Click Uninstall button and remove the flash drive. See Figure 3-66.

Note

Before you remove flash drive, please click Uninstall button first.



Figure 3-66

- Begin Sniffer: Click it, system begins sniffer and write data to the specified directory of the flash drive.
- Stop Sniffer: Click it, system stops writing data to the flash drive.
- Uninstall: Click it and then remove the flash drive from the device.

Note

Before you remove flash drive, please click Uninstall button.

• Format: Click it to format current flash drive.

- Refresh: Click it to refresh flash drive Sniffer interface.
- Delete: Select a file from the flash drive and then click Delete button, you can delete it.

3.10.4 Default and Backup

Please note 16-channel high definition series does not support alarm default setup function.

From maintain->Default and backup, the default and backup interface is shown as below. See Figure 3-67.

- Select all: Check the box here to select general/RS232/Network/Alarm /decode tour/splicing wall/connection mode to restore factory default setup.
- Default: Restore factory default setup.
- Export: Export system configuration to local PC.
- Import: Import configuration from PC to the system.

Default/Backup			
II All			
GENERAL	NETWORK	✓ RS232	ALARM
Decoded Tour	Preview&Playback	Splicing Wall	Connection Mode
Set Default			
Configuration File			Browse
Config Export			

Figure 3-67

3.10.5 Auto Maintenance

From Maintain->auto maintenance, here you can select auto reboot and auto delete old files interval from the dropdown list. See Figure 3-68.

Maintain	
Restart Manually	Manual Reboot
Auto Reboot	Every Tuesday 💌 02:00 💌
	Save Refresh

Figure 3-68

3.10.6 Connection mode

Important

Do not change the connection mode manually! After the decoder is added to the DSS2.2, it can auto switch to the transfer mode.

From Maintain->Connection mode, the connection mode interface is shown as below. See Figure 3-69.

Connection Mode	
Connection Mode:	Direct Connection

Figure 3-69

3.11 Log out

Click log out button, you can go back to login interface. See Figure 3-70.

WEB SER	VICE	
Username :	admin	
Password:		
	Login Cancel	

Figure 3-70
4 Local GUI Operation

This chapter is for 1-channel 4K high definition series product only.

4.1 Boot up



Before the boot up, please make sure:

- For device security, please connect the HDMI-WALL to the power adapter first and then connect the device to the power socket.
- The rated input voltage matches the device power on-off button. Please make sure the power wire connection is OK. Then click the power on-off button.
- Always use the stable current, if necessary UPS is a best alternative measure. Please follow the steps listed below to boot up the device.
- Connect the device to the monitor and then connect a mouse.
- Connect power cable.
- Click the power button at the front or rear panel and then boot up the device. After device booted up, the system is in multiple-channel display mode by default.

4.2 About Interface

The main interface is shown as below. See Figure 4-1.

The local GUI interface consists of the three parts.

Please refer to the following sheet for detailed information.

SN	Name	Function
1	Main Interface	Right click mouse, you can see it includes the four items: MAIN MENU, REMOTE DEVICE, NETWORK, CLOSE.
2	Device Tree	It is to list current added device(s) and channel(s).
3	Shortcut Menu	It includes the 1/4/9/16 split mode and MAIN MENU shortcut button.



Figure 4-1

4.2.1 Main Interface

Right click mouse, you can see the menu includes four items: MAIN MENU (chapter 4.2.1), REMOTE DEVICE (chapter 4.3.1.3), NETWORK (chapter 4.3.1.2), CLOSE (chapter 4.3.4).

4.2.2 Device Tree

The device tree adopts the list to display current device and channel. The device tree function is disabled by default. Move you mouse to the right side margin of the screen, system can auto display the device tree. Right click the device tree to hide it.

4.2.2.1 Display Mode

At the right bottom corner, you can see there are two display modes: Device Display/Channel Display.

Select Device Display, you can see the following interface. See Figure 4-2. Now you can see device name (pane 1) and the channels (pane 2).



Figure 4-2

Select Channel Display, the device tree is shown as in Figure 4-3. In this mode, system does not display device, it only displays all channels.



Figure 4-3

4.2.2.2 Shortcut Menu to Add Device

Click Add button, system pops up Remote Device interface. Please refer to chapter 4.3.1.3 for detailed information.

4.2.2.3 Output Current Channel to the TV Wall

There are two ways for you to output current channel to the TV wall.

- Drag the channel from the device tree to the corresponding window and then release.
- Select display window and then double click the channel.

4.2.3 Shortcut Menu

The shortcut menu consists of two items. It is hide by default. Move your mouse to the bottom of the display window, you can see it. Right click the shortcut menu, system auto hides it. See Figure 4-4.

- Pane 1: Click the button; you can go to the main menu.
- Pane 2: It is to display window split mode. It includes 1/4/9/16/25/36/64-window.



Figure 4-4

4.3 GUI Basic Operation

4.3.1 Main Menu

In Figure 4-1, click the button 1 to go to the following interface. See Figure 4-5. It includes seven items: General/network/remote device/decode info/sniffer/version/shutdown.



Figure 4-5

For General/network/remote device interface, you need to input corresponding user name and password to enter. See Figure 4-6.



Figure 4-6

4.3.1.1 General

General setting includes the following items. See Figure 4-7.

- System time: It is to change current system time and date. Please click Save button after the modification.
- Date format: There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Date separator: There are three denotations to separate date: dot, beeline and solidus.
- Time format: It is to set time format: 24H/12H.
- Resolution: It is to set output resolution. The default setup is 1280*1024. Please note system needs to reboot to activate current setup.
- Output type: It is to set output type. It includes: VGA/HDMI.
- Device ID: Input a corresponding device name here.
- Device No: Here you can set device number.
- DST: Here you can set DST time and date. Here you can set start time and end time by setting corresponding week setup or by setting corresponding date setup. See Figure 4-8 and Figure 4-9.

- B	GENERAL
System Time	2014 - 10 - 28 15 : 42 : 24 Save
Date Format Date Separator Time Format	YYYY MM DD • DST Set - • 24-HOUR •
Resolution	1280*1024
Output Type Device No.	
Device ID	NVD
Default	OK Cancel

Figure 4-7



Figure 4-8

 Weight and the second se		DST
O Da	ay of Week 🌻 Date	
Start:	🔇 2000 🍾 01 - 01	00:00
End:	🔇 2000 - 01 - 01	00:00
		OK Cancel



4.3.1.2 Network

The network interface is shown as in Figure 4-10.

- IP Version: There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
- MAC address: The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
- IP address: Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
- Gateway: Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.
- DHCP: It is to auto search IP. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
- TCP port: It is to set TCP port. Default value is 37777.
- UDP port: It is to set UDP port. Default value is 37778.
- HTTP port: It is to set HTTP port.
- HTTPS port: It is to set HTTPS port.

- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.
- Default: It is to restore factory default setup.

N	NETWORK
	N
IP Version	IPv4
Mac Address	14:08:21:14:22:03
IP Address	172 . 9 . 5 . 101 🔲 DHCP
Subnet Mask	255 . 255 . 0 . 0
Gateway	172 . 9 . 0 . 1
TCP Port	37777 HTTP Port 80
UDP Port	37778 HTTPS Port 443
Preferred DNS	8 . 8 . 8 . 8
Alternate DNS Server	8 . 8 . 4 . 4
Default	Save Cancel



4.3.1.3 Remote Device

You can add network camera here. See Figure 4-11.

- IP search: It is to search the network devices in current IP segment.
- Add: It is to add selected device(s) to the list.
- Delete: It is to delete selected device(s).
- Manual add: It is to add one device manually.

- B			R	EMOTE DEVICE				
83		IP Address 🔺	Port	Device Name	Mani	ufacturer	Түре	
1	⊨	172.9.3.51	37777	M60-12U		rivate		
2	H	172.9.2.219	37777	M60-12U		rivate	M60	
3	H	172.9.200.231	37777	DSCON3000		rivate	1000	
4	H	172.9.200.193	37777	M60-12U		rivate	M60	
5		172.9.3.36	37777	M60-12U		rivate	M60	
6	\Box	172.9.200.24	37777	M60-12U	Р	rivate	M60	-
•								
IP Sear	ch	Add			Sh	ow Filter	Non	e 🔻
Added D)evi		Port	Status	Edit	Delete (Channel No.	
1		10.33.9.184	37777	Succeed	/	×	8	
2	\square	172.9.2.219	37777	UNKNOW	1	×	0	
3		172.9.200.231	37777	UNKNOW	/	×	0	
4		172.9.200.193	37777	UNKNOW	1	×	0	
•			11					
Delet	e	Manual Add)					
						ОК	Cance	I)



4.3.1.3.1 Add by IP Search

- 1) In Figure 4-11, Click IP search button, you can view all network devices in current IP segment. You can view device IP address, port, device name, manufacturer and type.
- 2) Check corresponding box to select the network device you want to add. You can select several devices one by one. Check the box at the top of the list, so that you can add all searched devices at the same time.
- 3) Click Add button, you can add the device to the list.
- 4) Click OK button.

4.3.1.3.2 Manual Add

- 1) In Figure 4-11, Click Manual add button.
- 2) System pops up the following interface. See Figure 4-12. Here you can input device name, manufacturer, IP address, TCP port, user, password.
- 3) Click OK button.

Ø.		RE	MOTE DEVICE		_
80 1 2 3 4 4 ■ 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	IP Address 172.9.1.154 172.9.200.193 172.9 12 111 Device Name Manufacturer Priv IP Address User adm	ate 16 <mark>3</mark> 0.0	Device Name M60-12U M60-12U Manual Add TCP Port Password K Cance	Manufacturer Private Private Private 37777 •••••	Type ↑ M60 M60
↓ De	lete Manual Add)			>
				ОК	Cancel

Figure 4-12

4.3.1.4 Decoded Info

It is display channel decoded information. See Figure 4-13.

- Resolution: Current bit stream resolution.
- Frame rate: Current bit stream frame rate.
- Data flow: Current bit stream connected data flow.
- Decoded flow: The decoded bit rate of current bit stream.

/		Decodeo		
Channel	Status	Resolution	Frame Rate(FPS)	Date Flow(kb,
Channel1	Monitor	D1	25	1988
Channel2	Monitor	D1	25	1988
Channel3	Monitor	D1	25	1988 =
Channel4	Monitor	D1	25	1988
Channel5	Monitor	D1	25	1988
Channel6	Monitor	D1	25	1988
Channel7	Monitor	D1	25	1988
Channel8	Monitor	D1	25	1988
Channel9	Monitor	D1	25	1988
Channel10	Monitor	D1	25	1988
Channel11	Monitor	D1	25	0
Channel12	Monitor	D1	25	600
Channel13	Monitor	D1	25	1924
Channel14	Monitor	D1	25	1924
Channel15	Monitor	D1	25	1924
Channel16	Monitor	D1	25	1924
Channel17	Monitor	D1	25	1935
Channel18	Monitor	D1	25	1935
4		<u></u>	<u> </u>	4005

Figure 4-13

4.3.1.5 Sniffer

When there are some network problems such as you can not connect to the network device, or the video is not fluent, you can sniffer the network data. You can sniffer via the IP, port or protocol type. The sniffer data can be saved on the local of video general platform or the USB device of the video general platform. You can use the sniffer data to quickly find the reason.

Sniffer interface is shown as below. See Figure 4-14.

- Format: Click it to format current flash drive.
- Refresh: Click it to refresh flash drive Sniffer interface.
- Delete: Select a file from the flash drive and then click Delete button, you can delete it.
- New folder: It is to add a new folder and input customized folder name.

	Sni	ffer		
Device ID Ethernet Card Free Space/Total Space	/dev/sdb1 <pre> (dev/sdb1 </pre> <pre> (dev/sdb1 </pre> <pre> (dev/sdb1 </pre>	Uninstall (Start Sniffer)		
Path				
Name	110	Size	Rename	Delete
eth0-201410261227		1.00GB 585.30M	/	× ×
		ł		
Format	(New Folder)	Delete	Refresh	

Figure 4-14

- 5) Insert flash drive to the USB port at the front panel of the decoder and then click refresh button. After you see device ID, free space, you can see system has detected flash drive. Now you can go to the next step. Otherwise, you need to check flash drive connection.
- 6) Select a folder (Click new folder button to add a new one and input customized

name.)click	Start Sniffer	button, you can see	e system writes	data to the flash
drive and the	Start Sniffer	button becomes	Stop Sniffer	button.

- 7) Click Refresh button, you can see the sniffer file .pcap.
- 8) Click Stop Sniffer button, system stops writing data to the flash drive.

9) Click Uninstall button and remove the flash drive. See Figure 3-66.

Note

Before you remove flash drive, please click Uninstall button first.



Figure 4-15

4.3.1.6 Version

Double click Version button, you can view device current information or you can use the USB device to update the system. See Figure 4-16.

You can see alarm input channel, alarm output channel, system version, built date, Web version, SN and etc.

Before you update, please copy the upgrade file to your USB device and then insert the device to the USB port. Click the Start button to begin the upgrade process.

(A)	VERSION
Alarm In Alarm Out System Version Build Date Web Serial No.	4 4
UPGRADE	
	ograde system now,please insert USB upgrade disk,then press the start ograde.Don't shut down the power during upgrade!

Figure 4-16

Double click shutdown button, system pops up a dialogue box for you to select. See Figure 4-17

- Logout menu user: log out menu. You need to input password when you login the next time.
- Shutdown: system shuts down and turns off power.
- Restart system: system begins rebooting.
- Switch user: you can use another account to log in.



Figure 4-17

4.3.2 Remote Device

Please refer to chapter 4.3.1.3 for detailed information.

4.3.3 Network

Please refer to chapter 4.3.1.2 for detailed information.

4.3.4 Close

Click it, and then click OK button, system will close all windows.

Tips:

If you want to close one window, please move your mouse to the right corner of the

displayed window and then you can see the K button. Click it, you can close one window.

5 Alarm Input and Output

Before device connection, please make sure:

• Alarm Input

Here we take NKB100 as an example.

Please check the alarm type (Normal open/normal close) first. Then set decoder network alarm type. Set decoder alarm type as NO (Normal Open) if it is ground alarm, otherwise set it as NC (Normal Close).

Please note alarm input is active in low voltage, please ground it.

Please use a relay to separate devices, when there are two decoders, or there is one decoder and one another device.

Alarm Output

Do not connect the alarm output port to high power load directly (It shall be less than 1A); it may result in heavy current which may destroy the relay. Please use co contactor to realize the connection between the alarm output port and the load.

• Sound Ground

Please make sure the front-end device has earthed. Otherwise it may result in chip damage.

Alarm input type can be NO (normal open) or NC (normal close).

The 1-channel 4K high definition series product interface is shown as in Figure 5-1.



Figure 5-1

Parameter	1-channel 4K high definition series
AB	A/B cable of the control device.
<u> </u>	GND port
1~4	Alarm input port
C1-C4; NO1-NO4	Alarm output port (NO)

The 1/4-channel high definition series product interface is shown as in Figure 5-2.



Figure 5-2

Parameter	1/4-channel high definition standard series,
	(Ground alarm)
1	GND port
1-16	Relay input port
C1-C8; NO1-NO8	Relay output port(NO)
R0+, R0-, R1+, R1-, T0+, T0-,	Duplex RS485 port
T1+, T1-	

The 9-channel high definition series product interface is shown as in Figure 5-3.



Figure 5-3

Parameter	9-channel high definition standard series
AB	A/B cable of the control device.
±	GND port
IN1-IN4	Alarm input port
C1-C4; NO1-NO4	Alarm output port (NO)

The 4-channel 4K high definition series product interface is shown as in Figure 5-4.



Figure 5-4

Parameter	4-channel 4K high definition series
AB	A/B cable of the control device.
<u>_</u>	GND port
IN1-IN4	Alarm input port
C1-C4; NO1-NO4	Alarm output port (NO)

5.1 Alarm Input Port

- There are 16-ch alarm inputs and the input type can be NO or NC.
- Connect the NC port of alarm detector to the HDMI-WALL alarm input port (ALARM)
- When using external power to provide power to the alarm device, please make it has the same ground with the HDMI-WALL.

Please refer to the following figure for more information. See Figure 5-5.



Figure 5-5

5.2 Alarm Output Port

 8-ch alarm output (normal open contact). The external alarm device needs the battery supported.

- To avoid overload to damage the device, please refer to the following sheet for relay specification information.
- About A/B cable of RS485, they are used to connect to the PTZ decoder A/B cable. Please refer to Figure 5-6 for alarm input module information.



Figure 5-6

Please refer to Figure 5-7 for alarm output module information.



Figure 5-7

5.3 Alarm Output Relay Specifications

Contact Form 1Z

Contact Resistance	100mΩ (0.1A 6VDC)
Contact Material	AgNi+Gilded
Contact Rating (Resistive)	0.5A 125VAC/1A 30VDC
Max. switching voltage	125VAC/60VDC
Max. switching current	2A
Max. switching power	62.5VA/30W
Min. permissible loading	1mA 5V
Mechanical durability	1x107times (300 times/min)
Electrical durability	1x105times (30 times/min)

6 Network Keyboard Control Decoder Explanation

6.1 Connection

6.1.1 Keyboard Setup after Serial Ports Connected

The user must login decoder Web and choose "network keyboard "in serial port setup before connect the keyboard (such as IPJOYSTICK and the decoder. i.e.: system config.->RA232, then choose network keyboard in serial port function. Then set properties such as baud rate, data-bit, parity, stop-bit, and etc. (The default mode: baud rate: 9600; data bit: 8; stop bit: 1; parity: none). The properties of keyboard and DVR are required to be consistent.

Network keyboard config.: menu operation->control setup. (ID number, device name and connection type are also configured here)

ID number

ID number is to recognize the front-end devices' numbers Configuration steps: move the cursor to ID number and input the number.

Note: if the device number is marked with"*", e.g. if a user input "3", then it will be shown as "*3", which means that the front-end device that

numbered 3 has finished control setup, user can thus read the type and name of NO.3 device.

Device name

Name the front-end device. The keyboard supports multiple input methods.

Device type

Choose DVR for the decoder. Types are DVR, Dome, CMS, and HDMI-WALL etc,. Choose front-end device type by controlling directional keys (left and right keys), then use directional keys (up and down) to set other configurations.

Connection type

The connection type is determined by the connection way of keyboard and device.

e.g. the connection type is RS232 if the keyboard is connected to DVR via 232 interface.

232 address: 8 parity: N/A protocal: DVR-2 stopbit: 1 baudrate:9600 databit: 8

• Setup steps

Use the directional key(up and down) to move the cursor to the connect type, and use directional keys(left and right) to choose the method. Press ENTER to go to the "config." And set 232 address, protocol, baud rate, data bit, stop bit, parity and etc. there.

NOTE:

ID Number:*3 Device Name:DVR-1 Device Type: DVR Connection Type:RS232

- RS232 address/485 address are the local numbers of the corresponding DVR.
- DVR-2 is used as general protocol. DVR-2 is a network keyboard protocol, which corresponds to the serial port protocol of a decoder.

6.1.2 Keyboard Setup after Network Connected

For NKB3000 series network keyboard, you need to set the network keyboard IP first, please refer to the following instructions.

In the network keyboard, menu-> local config. -> Network config. Then set IP address, sub net mask, gateway and port.

ID number, device name, and device type are needed to be set. (The same setup method as above)

The connection type is network connection. Use the directional keys(up and down) to move the cursor to the connection type and choose connection way by using directional keys(left and right), press ENTER to go to the "setup", set control IP, control port and protocol. Then save.

After setup, press ESC to exit the control setup, at this time, a pop up will be shown, see figure press ENTER to save data and press ESC if you do not need the data anymore.

6.2 Login method

Users can choose any way to login: ID number, device name, IP address, 232 address, 485 address, then press ENTER to go to the setup and find the info that looking for, at last, press ENTER to finish the search.

If search is successful, it will auto connect, if the info. does not exist, it will be shown as follows: The address does not exist, please retry.

Login by shortcut:

Look for the shortcut by ID: press ID button, enter ID number, and press ENTER. Press ENTER to go to the main menu after connected.

6.3 Picture switch

- Press / ⊞ / ⊞ to switch window-mode: Single-split, 1/4/9/16 window split
- PREV: choose TV. 1-4: 4 TV NUMBERS
- Channel number: 1-16, 1-16 for each TV respectively

Control IP: 192. 168. 090. 111 Control Port: 3777 Protocol: DVR--2

> ID Number 485 Address Device Name IP Address

Save data? YES: ENTER, NO:ESC

- Press number button to go to the designated channel, e.g. press 1# to go to the channel 1, but when one wants to go the channel 10(and above), one must use CAM button as well.
- e.g. CAM +channel #+CAM button. E.g. use the combination CAM+12+CAM to go to the channel 12.

The detailed operation steps:

- Press "PREV"+tv number+,/⊞/Ⅲ/Ⅲ.
- Use a joystick or " \rightarrow " \leftarrow "" to switch channels.

Note:

- This manual for reference only. Slight difference may be found in the user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local retailer for more information.