



Installation and Operations Manual

Model Number: DNA7000

Description: Network Video Central Management

Appliance and Client Software

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Welcome

Thank you for using our Digital Surveillance System (DNA7000(DNA7000(DSS)))!

This user's manual is designed to be a reference tool for operation of your system.

Here user may find detailed operation information about DNA7000(DNA7000(DSS)).

Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Note:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.

• Do not use power line other than the one specified. Please use it properly. Otherwise, it may cause fire or electric shock.

Special Announcement

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks 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 for more information.

1 Overview

DNA7000(DNA7000(DSS)) Platform is software for user to manage DNA7000(DNA7000(DSS)) and it has the following functions:

- Multi-device, multi-channel real time monitoring and record playback
- Local snapshot, record mark and etc. of playback record
- E-map function allows user to position the device at any time.
- Audio intercom allows client to communicate with front-end device and broadcast.
- Video intercom, remote unlock and talk
- Easy management and Control TV Wall display synchronously.
- Customize monitoring plan and supports multi-channel/window video tour.
- Alarm activation with alarm video
- Mouse simulating rocker to control PTZ
- Fisheye and speed dome link
- Access control, alarm controller arm/disarm
- Behavior analysis, people count, heat map.

DNA7000(DNA7000(DSS)) Client has four types:

- C/S Client
- B/S Client, see Ch. 2.1
- Android Client
- iOS Client

2Configure System

Before you use the platform, please follow the steps listed below to set the initialization information.

2.1.1 Startup

Connect the power supply and startup.

The first time you startup, system will format the hard disk automatic, may take you about 10 minutes, please be patient.

Note:

DNA7000(DNA7000(DSS)) Built-in one 1T corporate hard disk, if system starts abnormal, need to check whether the hard disk is loose.

Before you use the platform, please set system IP address.

DNA7000(DNA7000(DSS)) default IP address:

- > port 1:192.168.1.108
- > port 2:192.168.2.108
- port 3:192.168.3.108
- port 4:192.168.4.108

2.1.2 Set System IP Address

Before you use DNA7000(DNA7000(DSS)) platform, please set system IP address.

DNA7000(DNA7000(DSS)) default IP address:

- port 1: 192.168.1.108
- > port 2: 192.168.2.108
- port 3: 192.168.3.108
- port 4: 192.168.4.108

2.1.3 Get IP Address

If you forget DNA7000(DNA7000(DSS)) platform IP, user may find it back via ConfigTool. Use version later than General_ConfigTool_Eng_V3.21.0.R.151219.exe.

1) Use Ethernet cable to connect DNA7000(DNA7000(DSS)) system to PC. Open ConfigTool, see Figure 2-1.

	Cont	figTool		¢		÷					?	<i>i</i> – □ ×
Find	number of devic	:es: 0	IPv4	v A	v		Q		efresh	Login	Setting	Batch Mode
No.	Туре	Model	IP	т	CP Port	HTTP Port	Subnet Mask	Gateway	MAC	SN	Version	Operate
					Setting	_			×			
						 Broadcast 	1					
					i i	Search by IF	odomain					
						Start IP	10.15.6.0					
						IP Number	100					
					Defa	ult UserName	admin					
					Def	ault Password	••••					
							OK Can	cel				

Figure 2-1

2) Click Refresh, it shows device list and related information searched in LAN, including DNA7000(DNA7000(DSS)). See Figure 2- 2.

	QCo	nfigTool		\$?	<i>i</i> - □
Find	I number of d	evices: 99	IPv4 🐦	Other 🗸		Q		efresh 🕞 Log	in Se	tting	Batch Mod
No.	Туре	Model	IP	TCP Port	HTTP Port	Subnet Mask	Gateway	MAC	SN	Version	Operate
31	DSS	DSS	172.7.2.217	5050	80	255.255.0.0	172.7.0.1	9c:5c:8e:4e:b9:8f	9c:5c:8e:4e:	1.00.000	* e
32	DSS	DSS	172.7.57.157	5050	80	255.255.0.0	172.7.0.1	4c:11:bf:0b:66:03	1C00839PA8	6.02.000	* e
33	DSS	DSS	172.7.56.61	5050	80	255.255.0.0	172.7.0.1	4c:11:bf:0b:66:0e	1C00839PA8	6.03.000	* e
34	DSS	DSS	172.7.55.190	5050	80	255.255.0.0	172.7.0.1	9c:5c:8e:4f:4f:29	9c:5c:8e:4f:4	3.22.000	* e
35	DSS	DSS	172.7.57.101	5050	80	255.255.0.0	172.7.0.1	f8:bc:12:4e:3f:b6	f8:bc:12:4e:	3.22.000	* e
36	DSS	DSS	192.168.2.190	5050	80	255.255.255.0	192.168.2.173	9c:5c:8e:4f:4f:2a	9c:5c:8e:4f:4	3.22.000	* e
37	DSS	DSS	172.7.56.60	5050	80	255.255.0.0		4c:11:bf:0b:66:0a	1234567890	3.20	* e
38	DSS	DSS	172.7.56.76	5050	80	255.255.0.0	172.7.0.1	4c:11:bf:25:33:d9	1E03F27PB	6.03.000	* e
	200	800	470 7 0 000	5050			1727.04			4 00 000	* 0

Figure 2-2

2.2 Quick Guide

Please input <u>http://ip/config</u> on the IE and then click Enter button. System pops up the following dialogue box. See Figure 2- 3.



Figure 2-3

1) Please input user name and password. System default user name is **admin** and password is **123456.**

Note: For security reason, please change your login password after you first login. Password can contains number, letter, underline and other symbols.

2) The system shows Quick Guide interface, see Figure 2-4.

Segment Setup	TCP/IP LAN/WAN Mapping Maste/Slave Hot Backup N+M Time Map Email
Server Config	
Basic	
Map Server	Network Mode(1): Multi-address 🔹 Default Network Card (1): Network card 1 (ethil) (1000Mbps 🔹
Email Server	
Storage Config	Select network card (@): Network card 1[eth0] [1000Mbps -
Self-check	MAC Address:
System Upgrade	IP Address: 172.7.56.77
Advanced Setting	Subnet Mask(): 255.255.0.0
	Default Gateway (7): 172.7.0.1
	Preferred DNS: 888.9
	Alternate DNS: 8.8.4.9
	Save and Reboot 🛛 🖊 Skip

Figure 2-4

- 3) Configure TCP/IP.
 - Select appropriate network mode, and set IP address, subnet mask, gateway and etc. for different Ethernet cards.
 - > Click Save and Reboot. If you do not want to configure, please click Skip.

If you click Skip, the system will operate according to current IP and perform next config.

Note:

- Multi-address mode: known as multi-Ethernet card mode, you have more than one segment can configure with different segments; this mode requires higher network reliability.
- Such as: configure hot spare, which requires Ethernet 2 with hot spare server beat IP; as well as being used in plan with ISCSI extended storage. While, under planning of Ethernet port: Ethernet port 1 as server communication, port 2 as reserved, port 3 and 4 as ISCSI storage.
- Load balancing: known as Ethernet card binding mode, suitable for condition that requiring higher network band width, and used in plan of high performance demand or non-ISCSI storage.
- Fault-tolerant mode: (master-spare strategy) Only one device is in active status, and when one device goes down, the another immediately switches from hot spare to master device. MAC address is visible from outside. Viewing from outside, bond MAC address is exclusive in order to switch disorder. This mode only provides fault tolerant function; so this algorithm may improve usability of network connection, but its resource utilization is low as there is only one port in working status and when there are N network ports, its resource utilization is 1/N.
- Advanced binding: used to let user select quantity of Ethernet card to be bound when the
 Ethernet card mode is load balancing, in order to achieve stream forwarding over 1K by
 one Ethernet card; for example: 2 IP bindings, plus 2 multi-addresses, this server can have
 3 IPs, and bound IP bandwidth is 2K, the other 2 are 1K, suitable for pure stream
 forwarding scene (storage not recommended).
- 4) LAN/WAN mapping config.

Configure IP address, router address and each type of server port. Click Save and Next. If you do not configure, then click Skip.

Note:

If the system access WAN via router LAN/WAN mapping, then you need to fill in WAN. If the system address and port info of related Ethernet port. If no port is mapping, then user may main port config. Address of router is the address accessed by WAN.

5) Click end of the server name, user may view related server definition, see Figure 25.

Quick Guide	
Segment Setup	TCP/IP LAN/WAN Mapping Maste/Slave Hot Backup N+M Time Map Email
Server Config	
Basic	If the system visits WAN via internal and external mapping of router, then you need to fill in WAN address and port information. If no port mapping, then you do not need to change por setup.
Map Server	
Email Server	IP Address: 172.756.77 V Router Address: 192.168.4.106
Storage Config	CMS (0): 9000 DMS (0): 9200 MTS (0): 9100 SS (0): 9320 ADS (0): 9000
Self-check	PCS (0): 9001 PES (0): 9400 ASC (0): 9700 MGW (0): 9990 PTS (0): 8001
System Upgrade	
Advanced Setting	WES (B): 80
	Revious Step Save and Next

Figure 2-5

6) Master/slave server selection.

By default, the system uses master server, and if you want to set it to slave server, please select Slave. See Figure 2- 6. Click Save and Next. If you do not configure, click Skip.

Segment Setup	TCP/IP LAN/WAN Mapping Maste/Slave Hot Backup N+M Time Map Email
Server Config	
Basic	
Map Server	
Email Server	Master Slave
Storage Config	 Previous Step Save and Hext Ship
Self-check	
System Upgrade	
Advanced Setting	

Figure 2-6

2

Note:

Server in a distribute system has two types: master and slave. There is only one master server and the rest are slave servers. Master server is the only controller which manage data, device and dispatch other distribution work. In the system, only master server will enable database (mysql server), tomcat and CMS and etc. Role of distribute server includes device input + forward + storage, only enable corresponding function services, such as DMS, MTS, SS, ARS, PCPS and etc. The entire system has only one port to user which is master server IP address.

- 7) Hot spare.
 - If the system configures hot spare, when master server goes down, hot spare server will replace master server and continue working, to main system stability. When master server recovers, the system will switch back to master server, see Figure 2-7.

Segment Setup	TCP/IP LAN/WAN Mapping Maste/Slave Hot Backup N+M Time Map Email
Server Config	
Basic	
Map Server	
Email Server	Virtual IP:
Storage Config	Mask
Self-check	
System Upgrade	
Advanced Setting	Spare IP:
	Spare beat IP:
	Spare config system admin
	Spare config system •••••• One-key Check
	 Clear Alarm Data To shorten preparation time for basic data, all alarm data will be cleared.
	Previous Step Step Step

Figure 2-7

Parameter	Note
Virtual IP	An IP not used in network segment and is configured with virtual IP. No matter where master server or hot spare server works, they all can be accessed via virtual IP without distinguishing master and hot spare servers.
Mask	Mask info.
Spare IP	Hot spare server IP address, known as address of port 1 of hot spare server.
Spare beat IP	Hot spare server beat IP address, known as address of port 2 of hot spare server.
Spare config system user (password)	Hot spare server CONFIG SYSTEM account and password.
Clear Alarm Data	After hot spare is configured, the system will auto sync master data with spare. If master alarm information is too much which causing long time for sync, it will clear alarm data on master server when hot spare is enabled by default.

- 2. Before the system starts hot spare, first make sure the master server and hot spare server are correctly configured physically and port 2 of both master and hot spare servers are connected via Ethernet cable within the same segment. Port 1 of both master and hot spare servers is configured to have different accessible addresses within the same segment. See Figure 2- 8.
- 3. Configure virtual IP, hot spare server IP and etc., click Save and Next. If you do not configure, then click Skip.



Figure 2-8

Note: During hot spare, we do not recommend to use master and hot spare servers as central storage.

8) N+M.

The system shows "N+M" interface, see Figure 2- 9.N+M backup is for mechanism of slave server in a distributed system. After a distribute server add redundant server, if this slave server goes down and cannot reboot in 60s, CMS will allocate device and business of this slave server to redundant server, meantime it will save record on disk of redundant server.

1. First login config system of the slave server you want to configure, in distribute, select Slave, see Figure 2-9.

Quick Guide							
Segment Setup	TCP/IP LAN/WAN Mapping Maste/Slave Server						
Server Config							
Basic	Default server is main server, if you want to config this server to slave server, select "Slave".						
Email Server	Master Slave						
Storage Config							
Self-check							
System Upgrade							
Advanced Setting							

Figure 2-9

2. Fill in master server IP, see Figure 2- 10.

Quick Guide	
Segment Setup	TCP/IP LAN/WAN Mapping Maste/Slave Server
Server Config	
Basic	Configure center server IP address.
Email Server	Main Control 172.7.56.57
Storage Config	
Self-check	
System Upgrade	
Advanced Setting	



3. Login master server config system, in N+M interface, user may see all slave servers, see Figure 2- 11.

Quick Guide						
Segment Setup	TCP/IP LAN/	WAN Mapping Maste/Slav	e Hot Spare Config	N+M Tim	e Setup Email Server	
Server Config						
Basic						
Email Server						
Storage Config						
Self-check	S Refresh					
System Upgrade	Reliesh					
Advanced Setting	IP	Name	Server Status	Enable	Server Type	Operation
						A Previous Step 🧖 S



4. Select corresponding slave server, in "Enable" column, enable button, and after server reboots, Server Status shows shows which means that slave server can be used as normal, see Figure 2- 12.

IP	Name	Server Status	Enable	Server Type	Operation
20.2.39.50	20.2.39.50	۲			/ ×



- 5. If you want to configure redundant server for slave server, select slave server you want to configure it to redundant server. In Enable column enable button, and in Server Type column modify server type to be non-redundant server type.
- 6. Select one slave server, click *button*, the system pops up edit box, see Figure 2- 13.

Select redundant server on the left, click Add to add it to the right, click OK.

Edit	_	_			×
Name 20.2.39.50	•	IP: 20.2.39.50			
Available Alternate Server	1	Selected Alternate	Server		
Root		Name	Running Status	Server Target Op	eration
✓ 172.7.57.252		172.7.57.252	🖄 Idle		• •
	Add				
	Delete				
	Delete				
	1				
				Run Alternate	Server
				ок	Cancel

Figure 2-13

After set redundant server, user may see Figure 2-14.

IP	Name	Server Status	Enable	Server Type	Operation
172.7.56.63	12	۲			/×
172.7.57.252	172.7.57.252	۲		\bigcirc	/×

Figure 2-14

When distribute server goes down, redundant server will replace it in 60s and you may view status of redundant server.

Click button next to redundant server, to view info in home server mounted by redundant server and current operation status. See Figure 2- 15.

Ed	it		×
	Name 172.7.57.252 Home Server	• IP: 172.7.57.252	
	Name	Main Server Status	Alternate Server Status
	20.2.39.50	🔿 Running	

Figure 2-15

Note:

- Server status: green means that distribute server is running, when you add device, user may mount it on current distribute server; grey means that the distribute server is not used, when you add device, this distribute will not be shown in server list; blue means that this server is redundant.
- Enable: highlight means that server is enabled. Grey means disabled.
- Server Type: highlight means that it is distribute server for now; grey means that it is During N+M backup, certain data will be lost depending on size of stream.
- When redundant server is working, the record originally saved on slave server can be searched but cannot be played, but if original slave server has been recovered from abnormality but the device has not been moved back, those records on original distribute server can also be played.
- When distribute server recovers, user may manually move back device to original slave server. In Figure 2- 16, click the red button, now user may search and playback record in both slave server and redundant server.



Figure 2-16

9) Set Time. The system shows Time interface, see Figure 2-17.

Segment Setup	TCP/IP LAN/WAN Mapping Maste/Slave Hot Backup N+M Time Map Email
Server Config	
Basic	
Map Server	Time Zone: UTC+08:00)Beijing, Chongqing, Hong Kong, Urumqi 🔹
Email Server	Date/ Time: 2016-03-18 14:30:05 Sync PC
Storage Config	
Self-check	NTP Setup: 🔤 🔤 Manual Update
System Upgrade	NTP Server: 1888
Advanced Setting	Update Period: Minute(1~65535)
	Previous Step A State Save and Hert MIShip
	Previous step B save and hext Alsop

Figure 2-17

1. Configure time zone and time, default is UTC+08:00, it can quickly sync with PC.

If there is NTP server, you may configure to ensure accuracy of DNA7000(DNA7000(DSS)) time.

Non-central servers do not have NTP function.

2. Click Save and Next, if you do not configure, please click Skip.

Note:

When NTP sync with server, scene are not the same:

NTP sync may target server at a specific server (has NTP function) to sync time, while only can remain syncing with one server.

Remain sync time:

Sync time on Manager-end, it sync serves of entire group related to this server.

Hot spare, master/slave server time config, user may check NTP sync, enter identical server IP, and see Figure 2-18:

TCP/IP LAN/WAN Mapping	Maste/Slave	Hot Spare	\geq	N+M	Tim
Time Zone:	(UTC+08:00)Beijing, C	Chongqing, Hong Kong, Ur	umqi		r III.
Date/ Time:	2016-05-03	20:37:19	Sync F	^o C	
NTP Setup:	✓	📻 Manual U	odate		
NTP Server:	20.2.33.15	Communication	normal!		
Update Period:	60 Minut	te(1~65535)			

Figure 2-18

10) Configure Email.

The system shows Email interface, see Figure 2-19.

Support yahoo, gmail, hotmail. For yahoo and gmail mail box, it only supports SSL encryption, and for hotmail mail box, it only supports TLS encryption.

Configure email server. When alarm occurs, this email server may send email to specific user.

Parameter	Note			
SMTP Address	Fill in email server address.			
Port	Fill in email port.			
Username and Password	Username and password of email box sends out email.			
Sender Mail Address	Email address.			
Encryption Type	There are 3 types, 1. No encryption, 2. TLS encryption, 3. SSL encryption. Method of encryption can be used for inter-organization email server.			

Figure 2-19

Parameter	Note
Test Recipient	Enter email address of a test receiver, click Mail Test. So he/she can receive a test email to check the email setup.

11) Fill in all contents, click "OK". Reboot server.

2.3 Segment

TCP/IP config, LAN/MAP mapping are same as config in wizard, skipped here.

2.4 Server

Click Server Config on the left, see Figure 2- 20.

Quick Guide	CMS	DMS	SS	ARS	PCPS	SOSO	PTS	SCS
Segment Setup								
Server Config		Auto regist	er re-positi	on port: 9005				
Basic					10-			
Email Server				📰 Apply	1 Re	estore Defaul	t	
Storage Config								
Self-check								
System Upgrade								
Advanced Setting								

Figure 2- 20

CMS:

This function is mainly for registration of CMS device mount on N+M back.

Auto register device: need to fill in server IP and CMS port (by default ARS server port is 9500), if you directly write server IP, then when the server goes down, redundant server will replace, and the Auto register device cannot register to redundant server.

To prevent this situation, when you register it, fill in hot spare VIP for server IP, and fill in port as port of CMS (9500 by default).

By auto registering Auto register device, when server has redundant server replacement, it can be used as normal.

Note: This function requires specific device (please refer to the device).

• SS

Max locked record ratio: record lock function, currently only support to lock center record; after record is locked at client, when storage disk is full and overwrites, it skip locked record and overwrite non-locked record.

Default ratio is 10, and user can customize size of lock record.

• ARS:

Auto register server IP is server port, which is 9500 by default. It can be modified as long as identical with registration on device.

Stream type: self-adaptive, main stream and sub stream.

Self-adaptive: when access client, according to client setup, stream self-adapts to change.

Main stream: when access client, do not affect by client setup, stream type shows main stream.

Sub stream: when access client, do not affect by client setup, stream type shows sub stream.

Currently stream type setup is valid for static connection auto registration device (device auto register type, please refer to device).

• PCPS

This option is for third party device connection. Pleas maintain default setup.

In DNA7000(DNA7000(DSS)) Manager-end interface, add device, click auto search. See Figure 2-21.

General	Business	Cascade	System	Statistics				
Org Act	count Device							
Sevice	Channel							
Q		Enco	oder	Decoder	Video Wall	llarm Host	s Ma	etrix A&C
▲ soot ↓ 1 abcd222 yuyan	2	Keyword:		Туре	: All	Manufacturer: All	T	
		Add Type: A	П	▼ Status	a All	Video Server: All	T	Q Search
		Q Auto Sea	irch	+ Add	🗙 Delete	👱 Import	📩 Export	
		Enco	ode IP/	'Domain Vide	eo Server Device Na	me Type	Org	Status
		1000	003 172	2.7.57.223 Cent	ter Server yuayn	IPC	yuyan	Online
							Total 1 record(s)	K < 1/1 > Go to pag

Figure 2- 21

Server support auto search, see Figure 2-22.

Org Account Dev	10 Sea	ch Encoder							×
Device T Channe		2: AM			•		Status: All Devices		Q Search
4		Status	Name	Manufacturer	Type	IP Address	Port	Add Type	Operation
root		•	7		Unknown	20.2.39.24	37777	IP Address	1
1 80cd222		•	14		Unknown	20.2.39.25	37777	IP Address	2-
in Julian		•	15		Unknown	20.2.39.26	37777	IP Address	1
		•			Unknown	20.2.39.155	37777	IP Address	
		•			Unknown	20.2.39.156	37777	IP Address	2
		•	ccs		Unknown	20.2.39.157	37777	IP Address	24
		•	-005		Unknown	20.2.39.158	37777	IP Address	20
		_	ccs		Unknown	20.2.39.159	37777	IP Address	20
		•	ccs		Unknown	20.2.39.160	37777	IP Address	2
		•	ccs		Unknown	20.2.39.161	37777	IP Address	2.

Figure 2- 22

PTS server

Picture storage server port, 8081 by default.

SCS server

SCS server config, current version is config item of video talk server. Default is in Figure 2-23.

Quick Guide	CMS	DMS	SS	ARS	PCPS	SOSO	PTS	SCS
Segment Setup								
Server Config			Sip Server A	ddress: 172.7	.56.57			
Basic			Sip	Port No: 5080	_			
Email Server				and the second s	O Re	store Defaul		
Storage Config				🧰 Apply	I I RE	istore Defaur	T	
Self-check								
System Upgrade								
Advanced Setting								

Figure 2-23

Server address: server IP, port is 5080 by default. On device registered via sip server, the port must be identical. See Figure 2- 24.

	Project Settings	G
IP Address	172 · 7 · 56 · 180	Product Info
Network Port	5080	SIP Server
User Name	02029901	P Network
Password	•••••	
Realm		PC Info
Enable Status		Oefault
	ок	Back

Figure 2-24

2.5 Basic Config

- Account modification: login config account, modify login password.
- System maintain: support to reboot, shut down and restore.

Restore default: it will clear database and restore default status.

Reset password: reset backstage config/system/root user login password.

• Time setup

Function in wizard, skipped here.

• Web access port setup

In case web port 80 is occupied, you must modify to other port and assess the system again by entering IP address plus port no.

i.e.: port no. is changed to 801, the IP address shall be followed by "ip:801". See Figure 2-25.



Figure 2-25

Add static router

In environment of single Ethernet card or multi-Ethernet cards, you may be able to access more than one network segment via router, here add static router addresses of these routers to prevent network address error.

• Ping check

Enter IP, click Apply, test whether platform server and other network are the save, and ether loss of packet exists.

• Log

Support unit in day, to download server log of entire system.

2.6 Email

Email config is the same as in wizard, skipped here.

2.7 Storage

Storage config includes local config and network config.

• Local config: plug hard disk to local server, and user may directly format hard disk and set type of video or picture.

Set to picture, this disk only stores picture info; set to video, this disk only stores video info; see Figure 2- 26.

Quick Guide	Disk	ISCSI									
Segment Setup											
Server Config	🕏 Refresh	Create	RAID Type 🛛 🗖	Format Unforma	tted disk, total ca	pacity 5586.03GB					
Basic		Disk Name	Slot Info/RAID Type	Capacity(GB)	Used Space(GB)	Free Space(GB)	Disk Type	Status	Health Status	File System Status	Operation
Map Server											
Email Server				Slot Info/RAID Type		pacity(GB)				Ορ	
		/dev/	sda	7		1862.0	Activate	d,Sync	Good		
Storage Config		/dev/	sdb	4		1862.0	Activated,Sync		Good		
Self-check		/dev/	sdc	3		1862.0	Activate	d,Sync	Good		
System Upgrade		/dev/sdd	2	1862.0	1862.00	0.00	Video	Formatted Activ	Good	Normal	🗉 💠 🗌

Figure 2-26

Click Create RAID Type, to create Raid and improve data security.

Note:

Raid is a simple technology which can improve external storage solution which can be selected according to actual scene need. Currently the platform supports setup of multiple Raid methods, and user can customize this.

See Figure 2-27.

Create RAID Type			×
RAID Type:	raid0 🔻]	
Status	raid1 raid5	Slot Info	Capacity(GB)
Formatted A	· · · · · = -	2	1862.0
			OK Cancel



Local config can set hot spare: local hot spare and global hot spare. Local disk may be selected to be hot spare. When other disks in use are failed, it can replace any of them.

Local hot spare: select one designated Raid group. (current only supports Raid5).

Set hot spare:

1. Select hard disk: select button to set hot spare, see Figure 2-28.

	Disk Name	Capacity(GB)	Used Space(GB)	Free Space(GB)	Disk Type	Status	File System Status	Operation
Þ	/dev/md0	3724.03	-	-	Not set	Not formatted Activat	-	Â.
	/dev/sdk	1862.0	-	-	Not set	Not formatted Activat		Æ
	/dev/sdm	1862.0			Not set	Not formatted Activat		\$
								Set Hot Spa

2. After click the button, see Figure 2- 29 and select hot spare type.

Set Hot Spare	
Hat Space Tuper	
Hot Spare Type:	
Select RAID:	Global

Figure 2-29

If you select local hot spare (only support Raid5): locally select one raid5 group.

s	et Hot Spare	_	_
	Hot Spare Type:	Local	
l	Select RAID:	/dev/md0 🔹	
			ОК

Figure 2-30

After setup is successful, view Raid5 group which has one additional hot spare disk. When any one of raid5 disk is broken, local hot spare will continue working.

	Disk Name	Disk Name Capacity(GB)		Used Space(GB) Free Space(GB)		Disk Type Status	
-	/dev/md0	3724.03				Not formatted Activat	
	Disk Name		Сарас	Capacity(GB)		Status	
	/dev/sda		1862.0				
	/dev/sdc		18	1862.0			
	/dev/sdl		18	62.0			
	/dev/sdm		18	1862.0			

Figure 2-31

• If select global hot spare. See Figure 2- 32.



Figure 2-32

After setup is successful, when any one storage disk in server is broken, global hot spare disk will replace it and continue working.

/dev/sdk	1862.0	-	-	Not set	Not formatted Activat		Æ
						Not formatted Activate	ed,Global Hot Spare

Figure 2-33

• Network disk: via network add other storage server, such as ESS, DNA5024 (before adding, please configure Raid disk on storage server).

After you add it, you must format this disk, and set it to video or picture, same as "local disk config", see Figure 2- 34.



Figure 2-34

For the added storage server, it has been added and used by other server, then the Raid group info will be abnormal, see Figure 2- 35.



Figure 2- 35

If you have to use this disk, click Rob, and click e, when you see prompt, click OK.

See Figure 2-36.



Figure 2-36

After robbery, the server can immediately use this disk to store.

2.8 System Self-Check

At the upper left corner of system self-check interface, it shows system real-time operation status. Means normal, **1** means abnormal, see Figure 2- 37.





Click to see corresponding details.

 Application check: it shows current system running server, database, FTP server operation status, see Figure 2- 38.

Quick Guide	Application Check Network Check Hardware Check	lisk Check		
Segment Setup				
Server Config	System Server Check : 🍥 Normal 🕟 Stop 🥌	Abnormal		
Basic	CMS 🍙	DMS 🍥	MTS 🍙	SS 🍙
Email Server	ADS 🍙	PES 🍙	ASC 🍙	ARS 🍙
Storage Config	PCPS 🥥	APPSS 🍙	APPMAIL 🥥	APPMATRIX 🍙
Storage Coning	VMS 🍘	SOSO 🍙	ADP 🍥	MCDDOOR 🥥
Self-check	MCDALARM 🥥	APPSMS 🍙	VQDS 🍥	MGW 🍥
System Upgrade	SDS 🍙	PTS 🍙	PCS 🍙	EAS 🍥
Advanced Setting	MCDPOS 🍥	SCS 🍙	SOCKS5 🍥	
	Database 🥥			
	FTP Server 🍙			

Figure 2-38

 Network check: it shows current Ethernet card status and real-time stream in/out flow, see Figure 2- 39.





 Hardware check: it shows current system running status, and real-time data, see Figure 2-40.





• Disk check: it shows current system real-time mounted HDD operation status, including mounted hard disk of Raid disk in network storage server, see Figure 2- 41.

Quick Guide	Application Check Network Cher	k Hardware Check Disk Check			
Segment Setup					
Server Config	Disk Name	Disk Capacity(GB)	Disk Temperature(°C)	IO Load(%)	Health Status
Basic	/dev/sda	930.5	31.0	0.0	Good
	/dev/sdb	1862.0	32.0	0.0	Good
Email Server	/dev/sdc	1862.0	33.0	0.0	Good
Storage Config	Total:3 Total Capacity:4654.50				
Self-check					
System Upgrade					
Advanced Setting					

Figure 2-41

2.9 System Upgrade

The system supports one-click WEB upgrading, compatible with tool upgrading, see Figure 2-42.

Quick Guide			
Segment Setup			
Server Config	and the second se		
Basic			
Email Server	49	System Upgrade:	Browse
Storage Config			
Self-check			
System Upgrade			
Advanced Setting		Apply	

Figure 2-42

2.10 Advanced Config

Master/slave config, hot spare config, N+M config are same as in wizard, so skipped here.

2.11 WEB System Parameter Config

2.11.1 **Login WEB**

User may refer to the following steps to login DNA7000(DNA7000(DSS)) manager. In Internet Explorer, input IP address of DNA7000(DNA7000(DSS)), press Enter. You will see Figure 2-44.

Default username is system. Default password is 123456.

DSS Digital Surveillance System	
	Password ••••••
	User Type Admin 💌
	Login
Download: For Computer: 📑 🙋 🌣 For Cell Phone: 🗯 🕯	Scanning two-dimension code:

Figure 2-43

Parameter	Requirement
W	Download C/S client.
æ	IE control download.
	Download iPhone version, Android version and scan QR code to download client.
Ð	IE config tool download.
	Config tool download.
F	Help manual download.
Config System >	Enter config system.

Note: User may download DNA7000(DNA7000(DSS)) Client on this login page. If it is your first time login DNA7000(DNA7000(DSS)) Manager, please add its IP address into the trusted site

2.11.2 License

It is just for pure software version currently, when you finished the install, the system only provides a trial version with 30-day basic video function, if system need support much more, include channel number, add-ons, and more long, can contact the business man to apply.

- 1) Login DNA7000(DNA7000(DSS)) Manager.
- 2) Click License at the upper-right corner.

The system provides a trial version support basic video function with 30-day and 100 channels default.

- 3) user may apply for a 30-day value-added function trial, currently, the system support POS, People Count, Video Talk, Trial only free 100 channel and 30-day
- 4) user also may purchase the service. Click Buy bar, see Figure 2-45.

Trial	ial You can apply for a 30-day value-added service trial.									
Buy	uy To get permanent usage permit, please buy corresponding module.									
Step1	Select Module and Chan	inel								
(Select module and channel you war	nt to buy (must be integral multiple of 10	00), export license file, and contact salesmi	an to buy.						
	Basic Video 2000	POS 0	People Count 0	Video Talk 0						
					Export					
Step2	Import Activation File									
(Update activation file provided by s	alesman (suffix is ".dat"). This operatio	in cannot be reversed, be careful!		Import					

Figure 2-44

- 5) Enter number of channels you want to purchase, click Export.
- 6) Send exported License file to supplier, and after you have gotten activation file, click Import to import it into the system.

Note:

If the device is whole unit model (DNA6500 or DNA7000), then its control of right may be different from pure-software server. A whole unit device can only control device boot up while cannot limit channel quantity.

 Check module you want, such as check POS and flow count, click OK, and then export file. See Figure 2-46.

	i Select module and delete	extra fi	es, export license file,	, and contact salesm	an to update.		
		0		ø			Ø
	POS		People Count		Video Tall		
				Prompt		×	
				Pleas	e Check Info:		
Step2	Import Activatio	n File		P	OS, People Count,	Video Talk	
	Update activation file prov	ided by	salesman (suffix is ".(ОК	Cancel	

Figure 2-45

- 2) Send the file you just exported to salesperson.
- 3) After salesperson receive the file, import the file, see Figure 2-47.

	Import	×
	License Update :	Browse
dat"). This		Import

Figure 2-46

4) After file is imported, refresh page, it shows module which user may select to support, see Figure 2-48..

Step1	Select Module						
	Select module and delete extra	files,	export license file, and contact sales	sman 1	to update.		
	0]	Ø			Ø	
	POS		People Count		Video Talk		
Step2	Import Activation Fil	e					

Figure 2-47
2.11.3 System Parameter Config

When you first login the system, you shall configure system settings in order to make the system run properly.

Configure the system as follows:

1) Select System > Parameters, you will see Figure 2-49.

Parameters	Security Configuration	Upload	Backup Restore	Resource Re-Config
Log	Max Save Time:30	Day(s)*		
Alarm Info	Max Save Time:30	Day(s)•		
GPS Info	Max Save Time:30	Day(s)*		
Sync Setup	Device Sync:√ When and de	Start Time: the servers or d evices will not b	levices of different time	Sync Interval:24 Hour(s)* Sync Time
Alarm Picture FTP Server	LAN Path :ftp://J	72.7.56.57/	*	Username:dss •
	WAN Path:			Password ••••••
Org/Channel SN	Enable: 🗸			
Multicast	Enable:			
3G Flow Search Setup	Enable:			
GPS Upload Setup	Enable:			
E-map Vehicle Icon Config	Type: • Bus	○Car ○Police	Car O Truck OMPT	
POS	Max Save Time: 365	Day(s)*		
Heatmap	Max Save Time:30	Day(s)*		

Figure 2-48

Parameter		Note		
	IP Address	IP address of manager server		
CMS	LAN Port	LAN port of manager server, default is 9000		
	WAN Port	WAN port of manager server.		
PCS LAN IP		IP address of PCS		
	LAN Port	LAN port of PCS, default is 9001		
WAN Port		WAN port of PCS.		
	LAN IP	LAN IP of WEB server.		
WEB Server	WAN IP	WAN IP of WEB server.		
	LAN Port	LAN port of WEB server, default is 80.		

Parameter		Note		
	WAN Port	WAN port of WEB server.		
Log	Max Save Time	Set max save time of log, default is 30 days		
Alarm Info	n Info Max Save Time Set max save time of alarm info, de			
GPS Info	Max Save Time	Set max save time of GPS info, default is 30 days.		
	Server Sync	If check this parameter, then enable server sync function.		
	Device Sync	If check this parameter, then enable device sync function.		
	Start Time	Set start time of time sync.		
Sync Setup	Sync Interval	Subject to server time sync device and server time. Default is 2 hours as every 2 hours; system is		
	Sync interval	subject to server time and sync time with server. Note:		
		Device and server sync time via SDK.		
	Sync Now	Click it to start time sync immediately.		
	LAN Path	FTP LAN address where to save alarm picture.		
Alarm Picture FTP Server	WAN Path	FTP WAN address where to save alarm picture.		
	Username/Password	Username and password to login FTP server		
Org/Channel SN		• If check Start, organization and channel will have this SN.		
		 If you do not check Start, this SN will not be display in organization manager and device manager. 		
Multicast		 If check Start, user may see multicast when add device. 		
		 If you do not check Start, user may not see multicast when add device. 		

Parameter	Note	
3G Flow Search Setup	Check"Enable", set time, search 3G flow usage.	
GPS Upload Setup	Check"Enable", and set interval time, as the time interval GPS info is uploaded	
E-map Vehicle Icon Config	Set vehicle icon on e-map	
POS	Set max save time of POS info	
Heat Map	Set max save time of heat map	

- 2) Configure parameters.
- 3) Click Submit.

2.11.4 Security Configuration

1) Select System > Security Configuration, you will see Figure 2-50.

Parameters S	ecurity Configuration	Upload Backup Restore	e Resource Re-Config	
HTTPS	Enable:			
Password Expiry Date	Enable:	This configuration is only valid for a	Admin and Portal. Client, Config, OS login account is not affected.	
Password Lock Setup	Enable:√	Lock Duration: ⁶⁰⁰ s*	Max Try Times:5	

Figure 2-49

- 2) Enable HTTPS, access web via https.
- 3) Enable Password Expiry Date, once this date is reached, you must change password, otherwise, user may not login.
- 4) Enable Password Lock and set lock time, try times and duration. Once exceeding max try times, the password will be locked.

3Add Organization and Login User

User may enter IP address of DNA7000(DNA7000(DSS)) platform in IE to login Manager.

3.1 Add Organization

Before you add device, you need to add organization of current device. User may arrange, organize and manage layer of device in Org.

The default first-level organization is root node. Newly added organization will be displayed below the root node.

Select General>

Select General> Org, Org includes basic organization and logic organization. When you configure user role, if you select different organizations in the right area of "Device Right>Device Tree Display Right", then in Client Live Preview interface, it shows device under the corresponding organization.

- Select General> Org.
- 1) Click 🕇 Add

System pops up Add Org box, see Figure 3-1.

Add Org			×
Upper Org:	root	*	
Org Name:		*	
SN:			
Memo:		▲ ▼	
		ОК	Cancel



2) Select Upper Org, input Org Name, SN.

3) Click OK

Note:User may only modify root node organization info, and user may not delete this organization.

Select Org>Logic Org, click Create Logic Org.

System shows Create Logic Org box, see Figure 3-2.

Create Logic Org	×
Org Name:	*
	OK



- 1) Enter org name, click OK.
- 2) After you add new logic org in the area on the left, click 🖾 and select config.

You also can click create login org in area on the left, then root node will be shown belw.

3) In channel Config Channels area , select alternative channel and add it to selected channel. See Figure 3-3.

Business Org Channel Config		×
Logic Org Name:11	*	
Config channels: Device Channel List	Add Delete	Vou can sort nodes by dragging it or click on arrows. Logic Organization Tree ▲ ◆ ★ ★ Image: Comparison of the second
		OK Cancel

Figure 3-3



3.2 Add User Role

DNA7000(DNA7000(DSS)) Platform supports to add user role and then add user. Existing user

can login Manager as well as Client. Different user roles lead to different operation rights.

Rights of user role includes Administrator Menu right, Operator Menu right and Device right. You must grand these rights before user may operate.

- 1) Click General>Account. System displays Account interface.
- 2) Click Role tab.
- 3) Click + Add. System pops up Add Role box.
- 4) Input Role Name, and select Role Level.

Note: If you check Copy Role next to Role Name, and select one role from the dropdown box, then the info will be pasted to your selected role.

5) Click Device Rights page, select right in Right Trees and select channel in Channel Tree on the right. See Figure 3-4.



Figure 3-4

Note:

- > Click \geq so user may copy setting from the selected node to current node.
- If you do not check corresponding device right, then all users under this role will have no corresponding rights.
- 6) Click System Rights tag, select corresponding system rights. See Figure 3-5.

Device Rights System Rights
Menu
✓ Operator Menu
Preview
Map
Alarm Manager
Audio Talk
Alarm Host
A&C
VIVSF
POS Search
✓ ISD
PC Report
V IVSPC
Video Talk
Record Mark
Alarm Scheme
V Tour Task
V IVSB
V IVSM
✓ Video Diagnosis
Record Lock
Health Report
Administrator Menu
General
Pusinese L

Figure 3-5

7) Click OK to add the role.

3.3 Add User

If you have added user role, now user may add user of that role.

- 1) Click User tab under Account.
- 2) Click + Add. System pops up Add User box.

3) Create a username, a password and confirm password. Select Department and Role.

See Figure 3-6.

Add User			_	×
Compulsive Info				
Username		* 🗆	Reusable	
Organization	root	*		
New Password		*		
Confirm		*		
Role]		
Optional 🛛				
			ОК	Cancel

Figure 3-6

Note:

- If you check Reusable box next to Username, then you allows more than one user to login system with this Username at the same time.
- > If you do not select a role, then the user will have no System Rights or Device Rights.
- > User may select more than one role at a time.
- > User may click Optional in the lower-left corner to fill in extra info.
- 4) Click OK to add user.

4DNA7000(DNA7000(DSS)) Client Installation and Login

4.1 Requirement for PC

To install DNA7000(DNA7000(DSS)), your PC shall match the following requirements. See Chart 4-1.

Parameter	Requirement
OS	icrosoft Windows Microsoft Windows 7
CPU	Core 2 dual-core 3.0
Hard Disk	At least 10GB free space
Video Card	DirectX 9.0c and higher
Memory	At least 2GB
Monitor	1024×768 and higher
Explorer	IE7, IE8

Chart 4-1

4.2 Install

Please follow these steps to install DNA7000(DNA7000(DSS)) Client:

- 1) Download and install the Client
- In Internet Explorer, input the IP address of DNA7000(DNA7000(DSS)). System displays login interface of DNA7000(DNA7000(DSS)) Manager as in Figure 4-1.

DSS Digital Surveillance System	
	Username system Password ••••••• User Type (Admin v)
	Remember Password
Download: For Computer: 📲 🔗 🏠 For Cell Phone: 💣 👘	Scanning two-dimension code:

Figure 4-1

- Click Download Client-end. System pops up a box.
- > Click Save. Download and save DNA7000(DSS) Client to local PC.
- 2) Install the Client, check Run DNA7000(DSS)Client, see Figure 4-2.

DSS Digital Surveillance System		
Install success!		
I⊄ Run DSSClient		
		Finish

Figure 4-2

4.3 **Login**

DNA7000(DSS) Client interface is shown in Figure 4-3.

DSS Digital Surveillance System			
User Name:			
Password:			
	Remember Auto Login		
	Login Exit		
		Server	•
Server:	Enter IP/DNS 🔻 Port: 9000		

Figure 4-3

- 1) Input Username and Password.
- 2) Click Server, and input Server IP and Port. Server IP shall be the IP address of DNA7000(DSS). Default port is 9000.
- 3) Click Login. System pops up homepage as in Figure 4-4.

gital Surveillance System	Homepage		-	_	-	-	? = - = >
General	Playback	Map	Alarm Manager	Output to Wall	QU Audio Talk	> .	09:13 AM Feb 01, 2016 ser Name: system Server IP: 172.7.56.52 ogin Time: 09:11 AM Feb 01, 2016 Log Off <i>P</i> Password
Extension	PC Report	Alarm Host	Access Control	IVS-B	IVS-F	ISD	NS-PC
Setup Status	Alarm Scheme	C Task	Local Data				
	_	_	_	_	_	CPU II NET II	

Figure 4-4

- 4) Click Log Off on the right of interface to switch user.
- 5) Click Password to modify login password.
- 6) Click in the upper-right corner to lock account. To unlock, you need to input login password in box pops up.

4.4 Local Config

After you first login Client, user may Window Split, Connection Type, Bit Stream Type, Alarm Level Amount, Video Buffer Time, Snapshot Save Path, Max Record Path and Record Save Path and etc.



 Click Local in Setup Manager area. System enters Local Setup interface. See Figure 4-5.

 Coneral <	DSS Digital Surveillance System	Homepage	? = = = ×
	Digital Surveillance System General Digital Surveillance System Digital Surveillance Syste	Homepage Local Default Window Split Alarm Level Amount	1000 (1-1000) 12-Hour Image: Control of the co
Save Default			Save Default

Figure 4-5

Parameter		Note
	Default Window Split	Set preview, playback and others' default display modes.
	Alarm Level Amount	Max alarms in Alarm Manager. Default is 1000 items.
General	Time Format	Set "12 Hour" or "24 Hour" standard.
	Enable Keyboard	Check to enable keyboard.
	Serial Port	Select port (COM 1~COM10) For network keyboard use only.

Parameter		Note
	Display Alarm Overlay Pane	 Display it or not ET INFECTION INFECT
	Sync Time	 Respond sync time or not: Check: sync server time by Client. Step 1. Not check: Do not sync server time.
	Display PTZ Button	Check it to display 8 keys of PTZ in window.
	Empty Organization	If you create more than one organization on Manager, and the organizations have no device. Select this parameter, so Client displays name of the organizations.
	Auto Login	If select this parameter, then you will automatically login the client when you open it.
General	Stay at the Last Frame of the Tour	If you select this parameter, then image stops at the last frame during tour.
	Self-adaptive Audio Talk Parameter	During talk, system can auto match device sampling frequency, sampling bit, and audio format.

Parameter		Note
	Auto Reboot	If you select this parameter, when PC boots up, the client boots up automatically.
	Connection Type	Request video mode.
	Bit Stream Type	Bit stream type used when you open video, user may select default bit stream, or self-adaptive stream for window size.
	Play Mode	Select play mode accordingly. There are RT priority, fluency priority and balance first. Default video buffer time is 1500ms.
	Login Enable	Task enabled after login. Include: None, previous tour task, previous preview record.
Video	Double Click on Real Time Window to Switch to Main Stream	Double click window to switch to main stream. Note: When window split is more than 9, double click a window to maximize window. Video stream will be switched to main stream.
	Display Error Info	When system has error or user encounters operation error, it shows a message box or not.
	POS Width	Live preview interface POS display width.
	Display Video Info	Display real time video bit rate and etc. in monitoring window or not.
Playback	Instant Playback Enable	Select this parameter to enable instant playback.

Parameter		Note
	RT Playback Time	Select real time playback time, default is 15s.
	Select this paramete r, playback enable.	Start playback
	Enable High Definition Adjustment	Check to prevent stuck high definition video.
	Save Snapshot Picture Directly	Select this parameter, then you will not see a snapshot box pops up.
	Format of Save Capture	Picture storage format, as BMP and JEPG.
Snapshot	Continuous Amount	Set amount of continuous snapshot. Min is 2, and max is 10.
	Continuous Interval	Set continuous snapshot interval.
	Snapshot Save Path	When you snapshot at local, storage path is set here.
	Picture ftp server	Enter FTP server address, username and password used to save picture
Record	Max Record Time	Max record time of local recording.

Parameter		Note
	Max Size of Single Record	When you record locally, user may not record file over this max size
	Record Save Path	Record storage path of local recording.
	ANPR Linked Record Time	When ANPT device has alarm, linked record play time.
	Query Record Time Out	Set record search overtime time.
	POS Record Time	i.e. here set Before: 1 min, Length: 5 min, in"POS search" interface search for linked record of receipt, play record 1 min before and 5 after time when the receipt is generated.
Version		View version info of the software.

Chart 4-2

- 2) Set General, Snapshot and Record/Download info.
- 3) Click Save.

5Live Preview

Live Preview function supports to view live video, and monitor PTZ, snapshot, record and etc. at the same time.

5.1 Video Preview for General Encoding Device

Before user may use functions of Client, you shall add organization and device on Manager.

Directly enter DNA7000(DSS) Platform IP address in IE, to login Manager,

1) Select General>Device>Device, system displays device interface.



- 3) Click + Add. System displays Add Encoder box, see Figure 5-1.
- 4) Enter IP address, device name and click Add. See Figure 5-2.
- 5) Select device type, enter video channel, alarm input and output channel.

put Info				
Add Type: IP A	Address 👻	Manufacturer	×	
Video Server: Cer	nter Server 🛛 👱	• Usemanie	admin •	
IP Address:		Password	••••	
Device Port 3777	77	• Org	root •	
			Getting Info	
evice Details				
Device Name:		Device SN		
Device Type: DVI	R 🔛	Device Memo	<u>م</u>	
eo Chaonel Alarm II	nout Channel Alarm Output	Diannel	v	
eo Channel Alarm I Channel Amount	nput Channel Alarm Output Bit Str	Channel ream: Sub Stream 💙 🔲 Zero Channel (

Figure 5-1

Add Encoder		×
Device 1	Type: DVR	T
Device	e SN:	
Video Char	nnel:1	*
Alarm Input Char	nnel:	
Alarm Output Char	nnel:	
	Add More	ОК

Figure 5-2

Parameter	Note	
	User may add device via the following methods:	
	• IP Address: If the device has static IP address, user may add device with its IP address.	
Add Type	• IP Section: If there are multiple devices with continuous IP address, such as 192.168.1.50~192.168.1.100, and their port no., channel number and other parameters are the same, user may add these devices as batch by entering starting IP and end IP.	
	 Domain Name: If you do not know IP the device, user may its domain name. 	
	 Auto Register: When front-end device has dynamic IP address or in LAN, you shall add device via auto register. For example, add mobile device via auto register. 	
	ONVIF: When device supports ONVIF protocol, user may add device via ONVIF.	
	Server where the device belongs to.	
Video Server	Click the box and user may select corresponding organization in prompt box.	
Device Type	System supports to add device types including: DVR, IPC, NVS, MDVR, NVR, Smart NVR, Smart IPC, VIT.	
Zero Channel Code	Combine multiple windows into one channel transmission.	

Parameter	Note
Device Gateway	 If select this parameter, then enable device input gateway. When you select transcoding, you need transcoding server.
	If not select this parameter, then not enable this function.
	If select this parameter, then enable all channels of the alarm output device.
Enable All	If not select this parameter, then not enable channel of the alarm output device and cannot preview at Client.
	By default, enable all is checked and is recommended.

Chart 5-1

6) Click OK as finishing adding encoder.

If you want to continue adding encoder, please click Add More.

5.2 Preview

2)

Click

1) Login DNA7000(DSS) Client.



in Basic area. System shows Live Preview interface.

3) In device list on the right, select channel and double click or drag it to video window. If you double click device, then all channels under this device will be open.

Video window shows live preview, see Figure 5-3.



Figure 5-3

User may click I in video window to locally record; click i to snapshot. Record and snapshot can be set in Local Config under Setup Manager area.

Right click video window, select TV wall. User may output video to wall in two ways, one is to select window decoding in Live Preview, and the other is to select TV wall task layout and execute output.



> Via Live Preview window decoding, see Figure 5-4.

> Select layout set in TV wall task to execute wall task, see Ch 5.4



5.3 Device Tree Pop-up



After device tree pops up, user may freely move position, and click 🖾 to restore, or drag device tree to left or right side of client.

5.4 Live Video Wall

Note:

Before output video to video wall, make sure you have added TV wall and video wall task, please refer to Ch. 9.2 and 9.3 for details.

- 1) In Preview interface, click I at the lower right corner.
- 2) Select TV wall, task. See Figure 5-6.



Figure 5-6



In video window, right click mouse and select TV wall, you also can select wall layout to output.

5.5 Local Data

Snapshot picture and record will be saved in local disk.

User may search saved local data, as saved record and snapshot in Local Data interface.



- 1) Click on Local Data in Setup Manager area. System pops up Local Data interface.
- 2) On the right, select device channel.
- 3) Config start time and end time. Select data type (picture, video) or use advanced search.
- 4) Click on Search. See Figure 5-7.



Figure 5-7

- 1) Right click searched picture or record, user may copy, cut and delete the picture or record. You also can open path where the picture and record stored.
- 2) Double click picture, user may view detailed info of picture.
- 3) Double click record, user may view detailed info of record and playback the record.
- 4) Click Local Record in the lower left corner, user may open local record storage path.
- 5) Click to adjust picture size.

5.6 Fisheye

DNA7000(DSS) Platform supports fisheye device installation, which includes ceiling, wall mount and grounding.

- 1) Login DNA7000(DSS) Manager.
- 2) Select General>Device>Device.
- 3) Click Add. System pops up Add Encoder box, see Figure 5-8.

Encoder			×
put info			
Add Type: IP Address	*	Manufacturer.	×
Video Server: 22	· ·	Username:admin	•
IP Address:	•	Password: •••••	
Device Port: 37777		Orgiroot	•
		Getting Info	
vice Details			
Device Name:		Device SN:	
Device Type: DVR	*	Device Memo:	-
deo Channel Alarm Input Ch Channel Amount:1	annel Alarm Output Channel Bit Stream: Sub Stream	m 🔻 Zero Channel Code De	vice Gateway
1 Name:1	Function: Support Fi	ish-+ ¥ Camera Type: Speed Dome ¥	SN:
			OK Cancel

Figure 5-8

- 4) Configure fisheye device parameter, for "function", select support fisheye.
- 5) Click OK. Login DNA7000(DSS) Client.



7) Double click fisheye device on the right. Ceiling installation has 8 types, see Figure 5-9 as there are "1+8" types.

6)



Figure 5-9

The fisheye in the center splits into 8 scenes. User may drag mouse to one of these blocks,

such as: , and its corresponding box will rotate.

Wall mount includes 5 types while grounding includes 7 types.

5.7 Tour Task

5.7.1 Tour Task

User may set tour task to achieve tour over several windows. To set tour task:



1) Click Tour Task in Setup Manager area. System displays Tour Task interface.

Click

3) Input Task Name, Description and select Window No.

2)

4) Drag designated device on the right to left window for setup as in Figure 5-10.

Task		Window No. 4	×	Stream T	ype Main Stream		Input contents
							⊞ 🔜 189 ⊞ 🔜 hik
Bindir	ng 1 video so	urces	Bind	ing 1 video s	ources		 smartIPC ⇒ TESTIVSASD ⇒ TESTIVSASD ⇒ TESTIVSASD ⇒ TOUT ⇒ TOUT
Bindiı	ng 1 video so	urces	Bind	ing 1 video s	ources		 ⊕ □ 10.10.22 □ 20ipc ♥ 56.20 ⊕ 1111
ow detail				Dra	ag video source to v	vindow	Preview
Channel Name	Stay Time(s) 🧷	Preset	Switch Bit Stream	Channel Type	Operation	0	
56.20	10	N/A	Main Stream	Fixed Camera			
							ð

Figure 5-10

- Click O, so user may viewo video in Preview in the lower right to view it.
- ➢ Click 1, U to adjust sequence, or click X to delete added channel on the left.
- 5) Click Save.

See Figure 5-11.



Figure 5-11

To enable tour task, there are two ways:

- In Tour Task interface, click to turn on tour task. User may now view monitoring status of tour channel in Preview interface.
- > In Preview interface, select tour task in the lower left, and click start.

5.7.2 Tour Plan

By configuring tour plan, user may achieve start time and end time of each tour plan.





Select wither Schedule or Tour Plan.

Note:

Schedule : schedule, may specify time to execute plan.

(\cdot)

Tour Plan : tour plan, may specify tour plan with interval period.

Select schedule

See Figure 5-12.

DSS Digital Surveillance S	System	Home	_		C Task											Ĩ	2	-	
) Plan Name	plan1	-																	
	Start Time	_		_	End	i Time	5	_	_	_	Task	_	_	_	Operat	or	_		
	00:00:00				23:	59:59				1	task1				+ >	۲.			I,
													17						

Figure 5-12

- 1) Input plan name, select start time and end time.
- 2) Click to add tour plan.
- 3) Check Enable Remaining Time Plan, click Save.

Note:

Enable Temaining Time Plan: It means the plan to be executed at remaining time period other than absolute time period.

- Select tour plan
- 1) Configure corresponding parameter.

See Figure 5-13.

DISS Digital Surveillance System	Homepage		? 🖴	- 🗆 ×
Plan Name plan2		task1	Spin Time(min) 10 1-144	40 Add
task1				
			Save	Cancel

Figure 5-13

2) Click Save.

See Figure 5-14.

DSS Digital Surveillance System	A Homepage	Task		?	-	- 1	×
Task	Tour Plan						
🖭 Import 🖉 Export)						
	🕑 plan2		(→ plan1				
L		* 🖻	◆ 前				
			Figure 5-14				
Click (2 Import	to import e	existing	plan. Click 존 Export to export plan.				

5.8 **PTZ**

If device type is speed dome, then user may click PTZ tab in the interface to set PTZ as in Figure 5-15.



Figure 5-15

Parameter	Note
•	 Click to lock current PTZ. Lock status is . Based on current user level, control over PTZ may vary. When low-level user locks the PTZ, high-level user can click to unlock. When high-level user lock the PTZ, low-level user cannot unlock it until it is automatically unlocked. User of same level can unlock PTZ that lock by each other. Note: PTZ default unlock time is 30s.
	Control speed dome with mouse.
Direction key	It sets rotation direction of PTZ in eight directions as up, down, left, right, upper left, upper-right, lower-left, lower-right.
ą	Partial zoom for zoom in/out of certain area. Note: This function can only be controller with mouse.

Parameter	Note
Step Length	It controls rotation speed of PTZ in 1~ 8 directions with different step lengths.
Zoom	It controls zoom of speed dome.
Focus	It adjusts focus.
Iris	It adjusts brightness.
Preset	Via setting preset, user may rotate camera toward position of the preset.
Tour	Via setting tour, user may tour camera among different presets. Note: This function does not require support from speed dome, but speed dome must support preset.
Aux	It adjusts light, wiper, PTZ menu, auto rotation, aux 1, aux 2 and IR light.

> Preset

By setting preset, user may rotate camera toward position of preset. To add preset:

- 1) Click direction key on PTZ to rotate camera.
- 2) Click Preset tab.
- 3) Click Add. System pops up Preset Setup interface.
- 4) Input SN and Name as in Figure 5-16.

Preset	Setup	×
SN		
Name		
	OK Cancel	

Figure 5-16

5) Click OK.

When you need to rotate the camera toward designated position, you just need to select

direction from the dropdown list, and click Go.

> Tour

Via set Tour, user may make camera tour among different presets.

Note: There must be at least two presets for tour.

To add tour:

- 1) In PTZ interface, click Tour tab.
- 2) Click Add. System pops up a new tour box.
- 3) Input name and SN. In All Presets area on the left, select preset, and click Add. System adds presets on the left to list on the right as in Figure 5-17.

Tour Setup		>
Name	SN	
All Presets		Add Preset
Preset		Preset
	Add	
	Delete	
		OK Cancel

Figure 5-17

- Add Select preset on the left, click this button, presets will be added into list on the right.
- Delete Select preset on the right, click this button, presets will be deleted from the list on the right.
- Modify Stay Time, click Stay Time column of presets on the right to modify it. It ranges from 3s ~ 6000s.

- 4) Click OK. System will say it is successfully saved.
- 5) Click OK.

When you want to start tour, in Tour tab, select tour from dropdown list and click Start.

- Scan
- 1) Select Scan from the dropdown list.
- 2) Click PTZ button, rotate PTZ to a specific position toward left, click Kee, set left border.
- 3) Continue rotating PTZ to a specific position toward right, click ²³, set right border.
- 4) Click (1), to start scan, and PTZ will rotete back and forth within two borders.
- Pattern

Pattern is the path of scanning.

- 1) In the dropdown list, click Pattern.
- In dropdown list, select pattern number, user may set 5 patterns.
- 3) Click Setup>Start Record, operate 8 PTZ buttons, to start setup of pattern.
- 4) Click Setup>Stop Record, setup is complete.
- 5) Click Startup to start rotation according to setup.

5.9 POS Function

5.9.1 Add POS Resource on Manager-end

Before user may see POS transaction info on Client, you must add POS resource on DNA7000(DSS) Manager.

Two methods to add POS:

- Add POS signal to NVR, and NVR sends it to DNA7000(DSS) platform to save, so user may add NVR supporting POS.
- > Install POS into conversion box, and match conversion box to platform.

Warning

Current POS info are all connected to NVR, and sent to DNA7000(DSS) Platform for

storage via NVR later, so you just need to add NVR of POS.

Method 1:

- 1) Login DNA7000(DSS) Manager.
- 2) Select General>Device>Device.

System shows Device interface.

		Encoder	
3)	Click		

4) Click + Add. System shows Add Encoder box, see Figure 5-18.

ncoder					2
ut Info					
Add Type: IP Address	. II.	•	Manufacturer:	P	•
Video Server: 22			Username:adm	in	
IP Address;			Password:		
Device Port: 37777			Orgiroot		
		_		tting Info	
ice Details					
Device Name:			Device SN:		
	1.	-			
Device Type: NVR	1	· _	Device Memo:		•
to Channel Alarm Input Ch	nnel Alarm Outpu	ut Channel POS Channel	1		
co Channel Alarm Input Ch			Zero Channel Code	Device Gateway	
Language and the second se		ut Channel POS Channel Stream: Sub Stream 🛛 🔻	Zero Channel Code	Device Gateway	
Language and the second se			Zero Channel Code	Device Gateway	
Language and the second se			Zero Channel Code	Device Gateway	
Language and the second se			Zero Channel Code	Device Gateway	
Language and the second se			Zero Channel Code	Device Gateway	
Language and the second se			Zero Channel Code	Device Gateway	
Language and the second se			Zero Channel Code	Device Gateway	
Language and the second se			Zero Channel Code	Device Gateway	
Language and the second se			Zero Channel Code	Device Gateway	

Figure 5-18

For device type, select NVR, then you will see POS tab.

5) Configure POS device parameter, click OK.

Method 2:

- 1) Select General>Device>POS.
- 2) Click Add.
System pops up Add POS box, see Figure 5-19.

Add POS			×
Add Type:	IP Address	•	
IP Address:			*
Device Port:	37777		*
Username:	admin		*
Password:	•••••		
Device Name:			*
Org	shang-20.2.33.10(7016)		*
Video Server:	Center Server	•	*
	Add	c	ancel

Figure 5-19

3) Enter conversion box IP address, device name, click Add. See Figure 5-20.

Add POS			×
Device Type:	POS	Ŧ	
Device SN:			
POS Channel:	1		
	Add More		ок



4) Enter device SN, click OK. If you want to add multiple POS conversion boxes, click Continue to Add.

5.9.2 Link POS Video Resource

- 1) Select Business>Resources Binding>POS.
- 2) Click Setup. See Figure 5-21.



Figure 5-21

3) In resource channel on the left, select POS device, and select link channel on the right.

Note:

One POS device can link up to 16 video channels.

4) Click OK.

5.9.3 Link POS Video Resource

- 1) Select Business> Resources Binding> POS.
- 2) Click Setup.

See Figure 5-22.



Figure 5-22

3) In source channel on the left, select POS device, and bind channel in video channel on the right.

Note:

One POS device can bind up to 16 video channels.

4) Click OK.

5.9.4 Use POS Function on Client

1) Login DNA7000(DSS) Client.

DSS Digital Surveillance System Homepage Preview(1)		? 🖴 – 🗖 X
Main Stream(2834kbps, 1920*1080)	6	 Org → Favorite → History Device Input contents Proot (3/20) Building 1 (0/3) Building 12 (1/1) Building 12 (1/1) WTO_1060 VTO_11 Kk (0/1) Tada_+-(haha) (WSPC 189 hik
6	6	smartIPC smartIPC for the second secon
	Full Screen V 🕄 📢	

Figure 5-23

- 2) In Live Preview, click POS tab on the right.
- 3) If you swipe card on POS device, then it will refresh POS card record in window on the left and play linked video.

Linked video channel will all open, up tp 16 channels, in self-adaptive mode. See Figure 5-24.



Figure 5-24

4) Right click POS window, select save video as task.



5.9.5 POS Search

In POS interface, user may search POS info list and playback related record.



2) Select search time and etc, click Search.

POS info list are shown on the left.

Double click one item of info, the linked video of the selected info will be shown on the right.
 (1 min before the selected time, and 5 min after the selected time), see Figure 5-25.

Note:

POS receipt linked record time can be set in Local>Record.

DSS Digital Surveillance System Homepage POS Searc	? ≞ - □ > ch Preview(1)
From: 2016-02-01 00:00:00 To: 2016-02-01 23:59:59 Keywords: Dev:	
Total: 0 tips (0/0)	
	6
No Data	
	Q

Figure 5-25

5.10 **Map**

1) In Live Preview interface, click Map on th	ie right.
---	-----------

Map tab shows map and hot spot map added on Manager-end.

- 2) Double click map, on the left it shows map and added devices. On the map, user may see live preview, playback and video wall.
- 3) Click in video window to play live video. See Figure 5-26.



冬

Figure 5-26

6Playback

The system can search and playback record from device or center storage media. User may search for different channels, different times, and different types of record on Client, playback and download them. If there is record found, it will show different colors in date selection area.

- Device storage: Record stored in SD card on front device or in DVR, NVR. Storage plan is configured on device.
- Center storage: Record stored on NVS, or DNA7000(DSS) hard disk. For detailed config, please refer to Storage config in System Config. Before you playback record from center, please configure normal plan first. Within the setup period, the system will store record file on NVS.

6.1 Configure Storage Plan

6.1.1 Time Template

- 1) Login DNA7000(DSS) Manager.
- 2) Select Business>Time Template.
- 3) Click Add. See Figure 6-1.



Figure 6-1

4) Enter template name, use mouse to draw period, as well as user may click

System pops up period setup box, see Figure 6-2.



Figure 6-2

5) Click Save. See Figure 6-3.

Add 1	lime	Templa	late	×
Bas	sic In		Plate Name:template1 Copy	
Ter	npla	te Deta	tails	
			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 2	
C		Mon		•
		Tue		•
E		Wed		•
		Thu		•
		Fri		•
C		Sat		•
E		Sun		•
			ОК	Cancel

Figure 6-3

Note:

If you select Copy next to template name, and in dropdown list select existing template, then user may copy info in existing template into this template.

6.1.2 Storage Config

6.1.2.1 Add Normal Plan

1) Select Business>Storage. System displays Storage interface as in Figure 6-4.

Time Te	mplate Storage	Alarm	Мар Т	V Wall Door Tin	neout Setup Resources Bin	ding Video Diagnosis		
Nor	rmal plan 🚺 Back St	orage Plan						
+	Add	Delete						
-	Plan Name			Time Template	Pi	sition	Enable	Operation
	normal_record			All-Period Template	(enter	Stop	

Figure 6-4



System pops a Add Time Template box. See Figure 6-5.

Add Normal plan		×
The Available Video Channels		
The Available video channels	Record Plan Setup	
All 🔻 🔍	Plan Name: *	☑ Enable
- Root	Template : *+	Bit Stream: Main Stream
□ 品 123 □ 品 456	Position: Center *	
□ 😡 VTT_1 □ 🐨 IPC	Memo	
CAM 1		
CAM 2		
CAM 3		
CAM 5	Time Template Details Week Time Sections	
CAM 6	week Time Sections	
CAM 7		
10.33.7.161_1		
Channel1		
Channel3		
Channel4		
Channel5		
Channel7		
🗌 🥪 test1_1		
test1_2		
test1_4		
🗌 🥪 test1_5		
test1_6		
test1_8		
test1_9		
test1_10		
IPC 🔽		
		OK Cancel
		Callee

Figure 6-5

3) Select channel on the left Input Plan Name, and select Template, Bit Stream. Check Normal plan. See Figure 6-6.

Template : All-Period Templat 	te 🔹 *+	Bit Stream: Main Stream	
□ <u></u> 123			
	*		
	*		
Memo			
✓ 🐨 IPC ✓ 🗭 CAM 1			
CAM 2			-
САМ 3			
Time Template Details			
CAM 5 Week Time Sections			
CAM 7 Sun 00:00:00 - 23:59:59			
CAM 8 Mon 00:00:00 - 23:59:59			
Tue 00:00:00 - 23:59:59			
Channel2 Wed 00:00:00 - 23:59:59			
Channel3 Thu 00:00:00 - 23:59:59			
Channel4 Fri 00:00:00 - 23:59:59			
Channel6 Sat 00:00:00 - 23:59:59			
Channel7			
test1_1			
c test1_2			
test_3			
test1_5			
test1_6			
cest1_7 cest1_8			
test_9			

Figure 6-6

For DNA5024 device front channel, in record plan, for storage position, user may select center (store on center server) or local (store on DNA5024-carried disk).

4) Click OK. System displays configured normal plan.

6.1.2.2Add Back Storage Plan

The system supports back up record of the previous 3 days.

- 1) Click Back Storage Plan tab.
- 2) Click Add.
- 3) In device tree on the left, enter plan name, select time template, condition, see Figure 6-7.



Figure 6-7

For condition, user may select time, WIFI. If you select time, set back up record time, and when the time is reached, user may back up record. If you select WIDI, when the device connects WIFI, it will auto back up record.

4) Click OK.

6.2 Playback

6.2.1 Playback



- 1) Open DNA7000(DSS) Client. In Basic area, click Playback. System displays playback interface.
- 2) In the upper-right corner, select Device, Center, or Period, and check device channel.
- 3) Select date, time, record type for search.
- 4) Click Search. After search is finished, channels with record will be displayed in time progress. See Figure 6-8.



Figure 6-8

- 5) Select channel to playback, click to play record. Or, double click time progress bar to playback record of the moment you click.
- 6) Right click playback window, select "Playback on Wall". System pops up "TV Wall Channel" box, decode via decoder and output to wall.

Playback now supports decoders as DNA8000, DNA7500 and NVD.

See Figure 6-9.

TvWallChannel				×
Step1:Choose Device,Step	2:Choose ch	annel,Step3:Choose Window	1	
Input contents	9	ChannelList	WindowList	
	,	NVD73_1	1	
□ 🕅 root 표 📇 moni-qq		NVD73_2	2	
172.7.56.59 171.2.100.30		NVD73_3	3	
NVD73		NVD73_4	4	
			5	
			6	
			7	
			8	
			9	
			10	
			11	
			12	7
			OK Cance	

Figure 6-9

6.2.2Intelligent Search

Warning:

Device to playback record must have intelligent search function.

1) In Playback interface, on the right select device channel with intelligent search function, and search for record. See Figure 6-10.



Figure 6-10



2) Click C. See Figure 6-11.



In the grid draw motion detection area 3)

The system searches motion detection result within the area, and the playback channel is purple, see Figure 6-12.



Figure 6-12

6.2.3 Fisheye Playback Record

The system supports to playback central record in fisheye device.

- Click Playback, enter Playback interface. 1)
- On the right, click fisheye device and set time, click Search. 2)

After videos are searched, double click to open record. Right click and select video mode of fisheye to playback, such as wall mount, see Figure 6-13.



Figure 6-13

 Select wall mount mode, right click Fisheye View and select split mode, such as 1+2 mode. See Figure 6-14.



Figure 6-14

You also can drag small block on fisheye to rotate video window on the right.

6.2.4 Playback by Time Slice

Warning

Time Slice function is for record store in center only, make sure record has been ready.

System Support Center recording will query the video window period by the average number of chips, and displays the corresponding period of the video in each window.

- 1) In the Playback screen at the top right, select time slice.
- 2) Select one channel, period for search, click Search.

The system will playback video corresponding period in each window. See Figure 6-15.



Figure 6-15

6.2.5 Mark Record

Via marking record, user may create bookmark in designated record.

To mark record:

1) Click 🚺 in Playback interface. System pops up a Add Mark box

Add Mark		×
Name	Mark1	
Content	lipc:Channel:56.20	
	Continuous Mark	
(OK Cancel	

Figure 6-16

- 2) Input Name and Content, click OK. System pops up box saying mark successfully. Select Continuous Mark to continuously mark current record.
- 3) Click 🌌 in playback window. System pops up a Mark Manager box .

	e Mark Time
Mark1 Device:20ipc:Cha 56.20 2016-01-28 11:23:31 Device	2016-02-02 10:12:0

Figure 6-17

Select record, click \square , \square and \square , you may playback, delete and edit the record. For marked record, it displays in progress bar in playback window, as in Figure 6-18. Click \nearrow , user may play marked record file.



Figure 6-18

DNA7000(DSS) Client supports search, playback, edit and delete marked record.

If you have marked record, user may quickly search record with the mark, and you also can playback, edit and delete the record. Please refer to Ch. 6.2.3.

To search marked record:



- 1) In Extension area, click Record Mark. System displays Recrd Mark interface.
- 2) In device list, select channel, time, and input mark name.
- 3) Click Search Mark. System shows search result, see Figure 6-19.

Digita	SS I Surveillance	System	Homepage	Record Mark P	layback	-	_	? 🖴 — 🗆
	lanage		nomepage	Record Mark P	ayback			Input contents
SN	Name	Contents	Channel	Record Time	Record Source	Mark Time	Operation	■ □ 黒 kk
	h Delete	Device:20ipc:Cha	. 56.20	2016-01-28 11:2	Device	2016-02-02 10:1		Image: Search Image: Search
					Figure 6	-19		
С	heck	multiple m	arked re	ecords, and	I click	latch Delete	to delete cl	necked records.
ck	▶ to	o play reco	rd.					
ck	🗵 to	delete red	cord.					
ck	🗷 to	edit.						

6.2.6 Record Lock

Note:

User may only lock record which is recorded half an hour ago.

1) In time bar in Record Playback window, right click time you want to lock record start at. See Figure 6-20.





2) Fill in record parameter, click Lock.

3) If you search again, you will see blue color in progress bar which is the locked record. See Figure 6-21.





Note:

When disk is full, ss will not overwrite locked record. SS is responsible for record storage, playback, download.

All of locked records can be search in Record Lock interface.



- 1) Click Record Lock in Extension area. System shows Record Lock interface.
- 2) In device list, select Channel, Start Time, End Time and Enter Lock Reason. Click Search to search lock record. See Figure 6-22.

Batch Unl	ock								Input contents
SN	Name	Start Time	End Time	Record Source	Operation Time	Operator IP	Lock Reason	Operation	
1	62ipcARS_1	2015-03-02 1	2015-03-02 1	Center	2015-03-02 1	10.33.4.51			
2	D2IDCAKS_1	2015-03-02 1	2015-03-02 1	Center	2015-03-02 1	10.334.51			

Figure 6-22

3) Select channel, click Batch Unlock to unlock multiple records at once.

Click **b** to play record.

Click 🔝 to unlock record.

6.2.7 Download Record

The system supports the playback of video downloaded and saved to a local PC.

	above playback window or click	
1)	above playback window or click	See Figure 6-23.

By F	ile By Time			
SN	Start Time	End Time	Size(KB)	Status
1	2016-01-31 23:58:44	2016-02-01 00:00:01	2173	Ready
2	2016-02-01 00:00:01	2016-02-01 00:18:06	25231	Ready
3	2016-02-01 00:00:02	2016-02-01 00:09:01	12800	Ready
4	2016-02-01 00:12:13	2016-02-01 00:12:13	410	Ready
5	2016-02-01 00:12:14	2016-02-01 00:17:30	7204	Ready
6	2016-02-01 00:33:05	2016-02-01 00:33:05	448	Ready
7	2016-02-01 00:33:06	2016-02-01 00:48:49	22066	Ready
8	2016-02-01 00:48:53	2016-02-01 01:18:44	41239	Ready
9	2016-02-01 01:00:01	2016-02-01 01:18:47	26091	Ready
10	2016-02-01 01:12:12	2016-02-01 01:17:29	7194	Ready
11	2016-02-01 01:42:52	2016-02-01 01:42:52	426	Ready
12	2016-02-01 01:42:53	2016-02-01 01:59:17	22863	Ready
13	2016-02-01 01:58:42	2016-02-01 01:58:43	430	Ready
14	2016-02-01 01:58:44	2016-02-01 02:18:05	25647	Ready
15	2016-02-01 01:58:44	2016-02-01 02:18:05	25647	Ready
16	2016-02-01 02:00:00	2016-02-01 02:06:56	9951	Ready
File Size	e < 1M			
Disk Sp	ace 33397M			

Figure 6-23

 Check the file to be downloaded, select Download grounds , enter Comments , and click Download.

The system starts downloading the file, Download Status to downloading. User may also click download time tab, select the time period, by time period download video.

3) Click in Record Playback interface. See Figure 6-24.

Downloa	ad Downloade	bd			
SN	Start Time	End Time	Size(KB)	Status	Device
] 1	2016-01-31 23:58	2016-02-01 00:00	2173	30%(663	20ipc
wnload S sk Free Sj					

Figure 6-24

User may view the download progress; user may check the video files being downloaded pause download and delete the file being downloaded.

7E-Map

Before user may use E-map function, you must configure type of map on DNA7000(DSS), including raster map, Google, Google offline map, while you must drag video device, ANPR device, alarm device onto map so that user may use E-map function on Client. E-Map supports alarm prompt, video preview and playback.

Note:

• Rater map:

Show one picture, which is suitable of indoor environment. Place camera at a fixed place, such as parking lot. Server used raster map as default.

Google:

Google online map, Client accessing Google map requiring network accessibility of Google Map. Via online Google map, it shows the entire city on map with zooming function.

Google offline Map

Google offline map, by distributing map on other server, it allows network accessibility between our Client and Google Map offline server. So user may access Google offline map with the same functions as online map.

7.1 Raster Map

7.1.1 Select Map

- 1) Select Business>Map.
- 2) Click config. See Figure 7-1.

Time Template	Storage	Alarm	Мар	TV Wall	Door Timeout Setup	Resources Binding	Video Diagnosis
			Ra	ster Map	Goo	gle	Google Offline Map
					8		8
				•	C		
	Raster Ma	ip			Name:		
					Picture:	Brov	vse
							Apply

3) Select map type to set, click Apply.

7.1.2 DNA7000(DSS) Manager Map Config

DNA7000(DSS) Manager supports to add video device, access control device, video intercom device and etc.

- 1) Login DNA7000(DSS) Manager.
- 2) Select Business>E-map. See Figure 7-2.



Figure 7-2

Note:

Hot zone: To add a hot zone on map, click Add Hot Zone, then system will auto link to hot zone map.

3) Drag device under Video Input tab on the right onto map. See Figure 7-3.



Figure 7-3

Font color in Video Input device list:

- > Red: this channel has not configured on map.
- > Grey: this channel has been added on map.
- 4) Drag device under Door Input, Alarm Input and etc. onto the map. Config of map is complete.

7.1.3 DNA7000(DSS) Client Map Function

1) Login DNA7000(DSS) Client.



in Basic Function area. See Figure 7-4.



Figure 7-4

3) On the map, pane or circle device you want to select, click Open to see live preview of the device. See Figure 7-5.



Figure 7-5

4) Client device under Search tab, or directly click device on map.

Device info are shown on map, such as channel name, device no. and channel no.

Channel5			×
×	Name: Device No.: Channel No. :		
Operation			
< 🙆 💽 🗄		>	
			Channel5

Figure 7-6

Paramete	r	Note
	0	Open live preview of this channel. When you have live preview, the system supports local record, talk, snapshot and audio.
		Playback.
		Output this channel to video wall.
Device Operation		Cancel alarm.
	굅	Unlock.
	>	Call access control device.
	Fø	View unlock record.
		Announcement.

Parameter	Note
Peripheral Search	Search peripheral of this channel for video channel and ANPR channel.

5) Click , open Video to open live preview, see Figure 7-7.



Figure 7-7

6) Click , configure playback time and storage type. User may search playback record.

See Figure 7-8.



Figure 7-8

- 7) Click , user may select via Preview window decode and output video to video wall, as well as select TV wall layout to output.
- > Select Preview window, see Figure 7-9.



Figure 7-9

The Client supports 4-split, such as select window 1 in live preview, then the first window in Live Preview plays channel video. See Figure 7-10.



Figure 7-10

Select TV wall task, output to video, see Figure 7-11.

DSS Digital Surveillance	System Homepage	Preview(1) Map	_	3	· = = = ×
		S Layer	Pane 🕼 Circle 🖋 Clear	Search	
N	No. of the	10	🔶 <mark>qq1_1</mark>		M Search
₩ ÇÇE		hibit - J		o qq	
s +				🚔 qq1_1	
-	qq		×		
	×	Name: qq Device No.: 1000014	Church X.		
		Channel No.: 321			
			A CONTRACTOR		
	Operation				
	< 🖸 💽 📑	Preview(1)			
		1 Screen1	Screen2		
		Device off	ine Device offline		
		Splicing Wall1			
			Device offline	All 2 item(s) PgUp 1	PgDn

Figure 7-11

7.2 Google, Google Offline Map Config

7.2.1 Select Map

Google and Google offline map have similar configuration steps, so here we make Google offline map as an example.

- 1) Select Business>Map.
- 2) Click config. See Figure 7-12.

Time Template Storage Alarm	Map TV Wall	Door Timeout Setup	Resources Binding	Video Diagnosis	
	Raster Map	Goog	le	Google Offline Map	
		8		8.	
				۰	
Map Engine					
	м	ap Engine Path: http://172.7	.56.57/maps		
	Мар	Engine WAN IP: 172.7.56.57	•		
Longitude and Latitude Setup					
		Longitude: 120.17829	9258354 *		
		Latitude: 30.189286	3586331 *		
Map Zoon Setup					
	Map Init	ial Zoom Level: 8	*		
	Map Spo	t Display Level: 8	*		
	Min Maj	p Display Level: 5	*		
	Max Maj	p Display Level: 19	*		
				Apply	

Figure 7-12

3) Select Google offline map, and click Apply.

7.2.2 DNA7000(DSS) Manager Map Config

1) Login DNA7000(DSS) Manager.

```
1) E-map
```

2) Select Business>.

3) Drag device channels under video device, alarm input tabs onto map, see

Figure 7-13.



Figure 7-13

Parameter	Note				
Move Device	Click to move device on map.				
Pane	Select device via pane.				
Clear	Clear pane selection on screen.				
Tool	 Include distance, side measuring, mark and reset. Measure distance : measure the actual distance between two points. Measure side: measure the actual area of a certain zone on map. Mark: mark on map. Reset: reset map to initial position. 				
Full-Screen	Show e-map in full screen. Under full screen mode, click exit full screen at the upper-right corner to exit.				

Parameter	Note
Add Heat Zone	Click Add heat zone. Select position on map and add heat zone map. After entering heat zone, user may continue adding lower heat zone map. On Client map, click heat zone, the system will auto link map to heat zone map.

7.2.3 DNA7000(DSS) Client Using Map Function

1) Login DNA7000(DSS) Client.



2) Click in Basic Function area. As shown in Figure 7-14, device dragged onto map on Manager are shown.



Figure 7-14


Click Device on the right. The interface shows surveillance spots in a list with their detailed locations, see Figure 7-15.

DSS Digital Surveillance System	A Homepage	S Map		-	-	-	3	• = = = ×
	🌴 Line	🖪 Pane	Circle	😂 Layer	1 Tool 🕶	🐼 Full-Screen	\Xi Video Device	😏 Back >>
							Input search criteria!	QSearch
							All 5 results	
							Org 🔻	
							A 1	
							B 172. 7. 57. 239_IPC	
							C 519	
							Р ІРС	
							E hik1	
							I< < 1 /1PAGE GC	

Figure 7-15

4) Click spot, for example: A.

Detailed location is shown on map, such as device no., channel name and etc. See Figure 7-16.

DSS Digital Surveillance System	Homepage	Map		-	-	-	1	* = = = ×
	⊀ Line	🕞 Pane	OR Circle	S Layer	Y Tool -	🕅 Full-Screen	i≣ Video Device	🕁 Back >>
							Input search criteria!	QSearch
							All 5 results	
							Org 💌	
							4 1	
							P 172. 7. 57. 239_IPC	
							9 519	
							믿 ірс	
							bik1	
							-	
							I< < 1 /1PAGE (

Figure 7-16

Parameter		Note
Davias	0	Open live preview of this channel. When live preview is in progress, the system supports local record, audio intercom, snapshot and ON/OFF audio.
Device Operatio n	Þ	Playback this channel's record.
	H	Decode and output this channel to wall.
Area Sear	rch	Search for video channel and ANPR e-police within surrounding of this channel.

1) Click in Operation area, to view live preview.

See Figure 7-17.



Figure 7-17

Click in device operation area, to playback record on device or platform. See Figure 7-18.



Figure 7-18

3) Click within operation box, to output video to wall.

See Figure 7-19. Please refer to Ch. 10.



Figure 7-19

8**Alarm**

DNA7000(DSS) Platform supports alarm function, and you need to set alarm source on device first. Different devices need different alarm type. Here makes NVR an example and introduces web config steps.

8.1 Device-end Config

1) Directly login device web end, or go to DNA7000(DSS) Manager-end Device

interface>NVR device tab, click

- 2) Open EVENT tab.
- 3) Click VIDEO DETECTION.

Video detection includes Motion Detect, Video Loss, Tampering, Video Analytics. For example, make Motion Detect as an example. See Figure 8-1.

▶ IMAGE	Motion Detect	Video Loss	Tampering	Video Diagnose	
	_			_	
EVENT	Enable	1	-		
> VIDEO DETECTION	Period	Setup			
>	Anti-dither	5	s(0-60	0)	
> IVS	Region	Setup		- /	
> FACE DETECTION	Region	Octup			
>	Record Channel	Setup			
> PASSENGER FLOW	Delay	10	s(10~3	800)	
> Heat Map	Alarm Out	1 2 3	4 5 6 7 8	1	
> AUDIO DETECT	Latch	10	s(0~30		
SMART TRACK	PTZ Activation	Setup			
> ALARM	Tour	Setup			
> ABNORMALITY		Setup			
> ALARM OUTPUT	Snapshot				
STORAGE	Show Message	Send Email	ail 🔄 Alarm Upload	Buzzer Mess	age 🗌 Log
► SYSTEM		Сору	ОК	Refresh	

Figure 8-1

Parameter	Note
Enable	
Period	Set monitoring period.
Anti-dither	Set anti-dither time.
Region	Set monitoring zone.

Parameter	Note
Record Channel	
Delay	Set alarm delay time.
Alarm Out	Select alarm output.
Latch	
PTZ Activation	PTZ activation.
Tour	Select alarm video output.
Snapshot	Set snapshot channel.
Show Message	Send Email: send email when alarm occurs. Alarm Upload: report alarm to DNA7000(DSS) platform. Here please check, otherwise the platform cannot record alarm. Buzzer: buzzer prompt alarm. Message: send message when alarm occurs. Log: alarm log generated when alarm occurs.

- 4) Configure parameter info, click OK.
- 5) According to actual need, user may click FACE DETECTION, AUDIO DETECT, ALARM and other tabs to configure alarm parameter.

Then configure Local Alarm under Alarm tab.

6) Select ALARM>Local Alarm. See Figure 8-2.

► IMAGE	Local Alarm	Net Alarm IPC External Alarm IPC Offline Alarm
▶ NETWORK	_	
T EVENT	Enable	1 Alarm Name
> VIDEO DETECTION	Period	Setup
>	Anti-dither	0 s(0-600) Type NO •
> IVS	Ana-diater	
> FACE DETECTION	Record Channel	Setup
>	Delay	10 s(10~300)
> PASSENGER FLOW	Alarm Out	1 2 3 4 5 6 7 8
> Heat Map	Latch	0 \$(0~300)
> AUDIO DETECT	PTZ Activation	Setup
> SMART TRACK	Tour	Setup
> ALARM	Snapshot	Setup
> ABNORMALITY	Show Message	Send Email 🗇 Alarm Upload 🗇 Buzzer 👘 Message 👘 Log
> ALARM OUTPUT	Show message	Send Entan Admit Optional Buzzer message Log
STORAGE		Copy OK Refresh Default
⊳ SYSTEM		

Figure 8-2

Parameter	Note
Period	Set monitoring period.
Delay	Set alarm delay time.
Alarm Out	Select alarm output.
PTZ Activation	PTZ activation.
Tour	Select alarm video output.
Snapshot	Set snapshot channel.
Show Message	Send Email: send email when alarm occurs. Alarm Upload: report alarm to DNA7000(DSS) platform. Here please check, otherwise the platform cannot record alarm. Buzzer: buzzer prompt alarm.
	Message: send message when alarm occurs. Log: alarm log generated when alarm occurs.

7) Configure parameters, click OK.

8.2 Config DNA7000(DSS) Manager Alarm Scheme

Manager configured alarm scheme is for the entire platform, not a specific user. Thus all user logged in the platform can receive alarm.

- Contact: user you want to send alarm to.
- Link level: link level of alarm.
- Alarm storm: batch config time interval of alarm. For the same device and same type of alarm, when alarm is frequent, set alarm interval may make alarm report at a fixed interval.
- TV wall Alarm Window Setup: set TV wall open window layout.
- Alarm scheme: used to configure alarm scheme template.

8.2.1 Set Contacts

When you add user into contacts and if the setup of Link Level includes email or sms, then system will send email or sms to the new contact.

- 1) Login DNA7000(DSS) Manager.
- 2) Click Business>Alarm tab. System displays Alarm interface.
- 5) Click Contacts
- 6) Click Add . System pops up a Add Contacts box. See Figure 8-3.

Add Contacts	 _	×
User Name:	*	
ID No.:		
Email:		
Telephone:		
Memo:		
	ОК	Cancel



- 7) Input User Name, ID No., Email and Telephone.
- 8) Click OK.

8.2.2 Set Link Level

User may set Link Level and its corresponding Link Mode as 1 is the highest and 5 is the lowest.

1) Click

. System pops up an interface as in Figure 8-4.

Alarm Scheme Output Alarm Video to the Wall	Alarm Storm Alarm Time Template	tacts	_
Link Name	Link Mode	Link Memo	Operation
LEVEL 5	Email, Record, SMS, TV Wall	LEVEL 5	/
LEVEL 4	Email, Record, SMS, TV Wall	LEVEL 4	/
LEVEL 3	Email, Record, SMS, TV Wall	LEVEL 3	/
LEVEL 2	Email, Record, SMS, TV Wall	LEVEL 2	/
LEVEL 1	Email, Record, SMS, TV Wall	LEVEL 1	/



9) Click . See Figure 8-5.

🚐 Link Level

Edit Link	_	_	×
Name	LEVEL 5	*	
Memo	LEVEL 5		
✓ Link Mode ✓ Record	🔽 Email	SMS	V Wall
			OK Cancel

Figure 8-5

- 10) Set Link Level Name and select Link Mode.
- 11) Click OK.

8.2.3 Set Alarm Storm

User may set alarm interval and customized alarm storm as batch.

- > Set alarm interval as batch
- 1) Click Alarm Storm. System displays Alarm Storm interface.

2) Select one or more alarm storm, and click Alarm Interval Setup. System pops up a

box as in..

Alarm		×
Alarm Interval(s):	*	
	OK	el



3) Set Alarm Interval.

Note: The interval cannot be over 86400 seconds.

4) Click OK.

User may click Cancel Alarm Interval Setup to stop alarm interval as batch.

8.2.4 Set Alarm Video on Wall

Note:

You shall configure TV wall before outputting alarm video to the TV wall. Please refer to font color in "0 video input" device list.

- Red: the channel has not configured on map.
- Grey: the channel is added on map.
- 1) Drag ANPR input, A&C input and alarm input on the right onto map.
- 2) Complete e-map config.

Configure Alarm Scheme as follows:



The system shows added TV wall.

2) Click . System pops up an Edit Alarm Scheme box.

3) Select a screen, click open window button below, such as

See Figure 8-7



Figure 8-7

4) Click Save.

8.2.5 Alarm Scheme Config

Configure Alarm Scheme as follows:



Add Alarm Scheme				×
1 Alarm Time	2	Alarm Source and Operation	3 Alarm Preview	
Scheme Name:	*	Template:	× +	Enable 🗸
Memo:				
Template Details				
Time	Corresp	onding Link Level	Corresponding Link Item	
				Cancel

Figure 8-8

3) Input Scheme Name, select template and link level, check Enable.

4) Click Next. System displays Alarm Source and Operation interface.

5) Click • New . System displays Add Alarm Source and Link Operation 1 box, see Figure 8-9.

Add Alarm Scheme				×
1 Alarm Time	2 Alarm Sou	rce and Operation	3 Alarm Preview	
+ New	Delete			
🔟 SN	Alarm Source	Alarm Type	Link	Operation
Add Alarm Source and Link Operation Alarm Source Device Video Channel Alarm Input (Q Device Video Channel Alarm Input (C Device Video Channel J Device Video Channel Alarm Input (C Device Video Channel J Device Video Channe	1 Channel Intelligent Channel A&C Cha Alarm Type Check All Disk Full Disk Error Device Disconn	Corresponding Link Innel System Record Email SM V VIVSI V VIVSI VVSI VVSI VVSI VVSI VVS	C_2 Pre-record 30	
Building 2 Building 3 Building 3 Building 4 Building 5 Building 6 Building 6 Building 8 Building 11 V		<pre></pre>	era 04 Lera 05 Lera 05 Lera 06 Lera 07	Cancel
Back				Cancel

Figure 8-9

6) In Alarm Source area, select alarm source and its link operation. Alarm source includes device, video channel, alarm input channel, intelligent channel, A&C channel and system. Different alarm source corresponds to different alarm type.

7) In Corresponding Link Operation area, select link operation. Link operation includes Record, Mail, SMS, TV Wall and User.

For link operation, if you select record, you shall select video channel under Record tab, and set record time.

Note:

If you need pre-record, then select device record needed.

> For link operation, if you select email and sms, you shall select contacts for both. Users

here are users added in Contact. User may click 🛨 to all alarm contacts.

When link level is video wall, you must add link video here, and select corresponding TV wall layout window. See Figure 8-10.

Alarm Type Check All Image: Coot Channel TV Wall Windows Image: Coot Image: Coot </th <th>irm Source vice Video Channel Alarm Input</th> <th>Channel Intelligent Channel A&C Channel System</th> <th>Corresponding Link Operation</th> <th></th> <th></th> <th></th>	irm Source vice Video Channel Alarm Input	Channel Intelligent Channel A&C Channel System	Corresponding Link Operation			
		Alarm Type Check All Disk Full Disk Error Over Speed Alar Over Speed Alar Over Speed Alar Into Zone Out of Forbidde Into Forbidden Into Departure Into Departure Into Arrival Zone Overload Brake ACC Outage Alarm Global Over Spe Device Audio Re		dmx_1 dmx_2 dmx_3	99 99 99	Window1 Window2 Window3

Figure 8-10

- > To configure TV wall, please refer to Ch. 9.2 and 8.2.4.
- When you select link action user, you shall select user to send, and users here are login user added in User.

8) Click Save. System prompts a message "Successfully save scheme rule!".

9) Click OK.

10) Click Next. System displays Alarm Preview interface as in Figure 8-11.

1 Alarm Time		2 Alarm Source and C	peration	3 Alarm Preview	V
Scheme Name:123		Tempi	ate:Level 1		
Memo:					
mplate Details					
	Time	2		Corresponding Link Level	Corresponding Link Item
Alarm Time Begir	is From2014-09-11 Thursd	ay 17:00:13 to 2014-09-19 Friday	17:00:15	LEVEL 1	Record,Email,SMS,TV Wall
m Source and Operation				Link Info	
SN	Alarm Source	Alarm Type	Link	Link Info	
1	111,10.15.1.25	Disk Full,Disk Error	Record	Record Email SMS TV	Wall



Step 11. Click Finish.

When alarm occurs, system performs link operation according to Alarm Scheme settings, and shows alarm info in Statistics>Device>Device Alarm Info.

8.3 DNA7000(DSS) Client Alarm Scheme Config

Alarm scheme configured on Client is for user of this Client.

8.3.1 Alarm Scheme Config

User may refer to the following steps to set alarm scheme.

1) Login DNA7000(DSS) Client.



DSS Digital Surveillance System	Homepage	Alarm Scheme		? 😐 – 🗖
+ New	Import 🗷 Export)		
SN Operatio			Description	
1	test1	222		
Modify De	lete			

Figure 8-12

- 3) Set scheme info.
- Click How System displays Global interface.
- > Input Scheme Name, Description, Time, Audio and Others as in Figure 8-13.

DSS Digital Surveillance	e System Homepage Alarm Scheme	?	<u>-</u>	□ ×
1 Gio	bal 2 Alarm Source 3 Link Video			
Scheme Name Description Time	scheme1 All-Day O Periods(Two periods can not overlap and total 10 periods) Start 7:00:00 End 20:59:59 Level Level1 V + Remaining Time Level Level1 V			
Audio	Oefault Sound Alarm Type Video Loss Custom Sound Loop 1 (1-100 times) Cycle Resume Listen)		
Others	Map flashes when an alarm occurred			
		Next	Са	incel

Figure 8-13

Parameter	Note
Time	 Set period of arming, and select level. User may select: All-Day: All day is arming period. Periods: Certain periods in a day are arming period. User may add period via and delete period via . Note:
	Remaining Time Level represents periods not covered by arming.
	Set audio of alarm. User may set:
	 Alarm Type: Select alarm type to set sound.
	 Audio Path: Select path of audio file by click Browse.
Audio	 Loop: By selecting this cycle, alarm sound will be looped.
	 Listen: User may listen to the selected sound.
	 Resume: System can restore default setting of non-customizable alarm type.
Others	If check Map flashed when an alarm occurred, then when alarm occurs, it will flash on E-map.

4) Set Alarm Source.

> Click 2 Alarm Source or Ne

or Next. System displays Alarm Source interface.

- > Select channel on the left, and in Alarm Type area, select alarm type to be armed.
- > Click . System will add alarm source to list on the right as in Figure 8-14.

DSS Digital Surveillance System	A Homepage	Alarm Scheme	-		-	-	?	≞ - □ >
1 Global		2 Alarm Sourc	e		3	Link Video		
All Alarm Type		Input contents		Alarm Typ	e All	Name		٩
 Video channel Video Loss Motion Detect Tampering Channel Disconnected Audio Abnormal Device Smart channel Access Control Traffic Aarm DynamicEnvironment channel Video Talk 		 root <li< td=""><td>» «</td><td>SN 1</td><td>Alarm Device 20ipc_56.20</td><td>Video Loss</td><td>Alarm Type</td><td></td></li<>	» «	SN 1	Alarm Device 20ipc_56.20	Video Loss	Alarm Type	
Back						Next	ок	Cancel

Figure 8-14

Note:

• If you want to delete alarm source, you shall select alarm source on the right, and click

to remove.

• For alarm scheme, link video is not required, user may click OK to finish setup.

5) Set Link Video

- Click Click Click Video or Next. System displays Link Video interface.
- Select alarm source on the left.
- > Select video channel under Link Video tab.

 \triangleright

> Click is to add selected link video to area on the right as in Figure 8-15.

1 Global	2	Alarm Source	3	Link Vic	leo	
m Source	L	ink Video Event Alarm Type				
larm Type: All 🔽 Filter:	٩	Stay Time 20 (10s	-12h)			
20ipc_56.20 Video Loss		Input contents Q □ ① ☆ Building 1 0 <th>>>> () () () () () () () () () ()</th> <th>N Link Video VTO_106() 20ipc-21 20ipc-22</th> <th>Preset SN SN SN</th> <th>Stay Time 20 20 20 20</th>	>>> () () () () () () () () () ()	N Link Video VTO_106() 20ipc-21 20ipc-22	Preset SN SN SN	Stay Time 20 20 20 20

Figure 8-15

Note:

- Double click Stay Time of added link video to edit its value.
- If you want to delete added link video, user may select it and click
- > (Optional)Select O Display in Preview Interface. See Figure 8-16.

	0	Pop Up 🥥 Dis	play in Preview Int	erface
	SN	Link Video	Preview	Wind
1		qq1-Channel4	Preview 1	Window
2		qq1-Channel5	Preview 2	Window
3		qq1-Channel6	Preview 3	Window
4		qq1-Channel7	Preview 4	Window

Figure 8-16

Optional) In Preview dropdown list, user may select 4 split, and in Window dropdown list, select link video window.

When alarm occurs, in Live Preview interface, the corresponding window will have red flashing

and it will play alarm linked video.



Figure 8-17

- Select alarm output device under Alarm Output tab.
- > Select whether Auto Enable Output Device or not, input stay time. In device channel list,

select channel and click is to add alarm output.

You also can check Auto Enable Output Device and edit stay time for added output items.

> Click OK. System displays added alarm scheme as in Figure 8-18

	DSS Digital Surveill	ance System	Homepage	Alarm Scheme		?	4	-	×
(+ New) (🖭 Impor							
	SN	Operation 🖉	Enable Time 🧳	Name	Description				
	🗖 1		test1 🔻	222					
	2	\bigcirc	Time template 🛛 🔻	scheme1					
(Modify	Delete							
5									1

Figure 8-18

- Click in Operation column to enable alarm scheme.
- When you enable scheme, you need to click ▼ in Enable Time column, select alarm time template, and if alarm occurs within this period, it will alarm. Alarm time template shall be set on DNA7000(DSS) Manager Business>Alarm Config, see Ch 8.2.3.

8.3.2 Alarm Manager

If alarm scheme is configured, when alarm occurs, Alarm Manager displays corresponding alarm.



1) In homepage, Click in Basic area. System displays Alarm Manager interface as in Figure 8-19.

Batch Proces	Alarm History	System Event									Pa	ause Refresh
Datch Floces	Pending/Fixed	0 0		All	0	Level1 0	Level2	0	Level3	0 L	evel4 0	Level5 0
SN	Process Status	Alarm Type	Time		Event T	ype	Device		Channel	Al	arm Level	Operation

Figure 8-19

- 2) Select alarm info, double click alarm details.
- 3) Select process, input Results and click OK.



Manager interface.

- > Click Alarm List tab, systems displays all alarms by level.
- Click Search List tab, select corresponding channel in list on the right, and select Alarm Type, Start Time and End Time. Click Search to search alarm records meeting above criteria.
- > Click System Event tab, system shows all system alarms.

8.4 Thermal Imaging Alarm

8.4.1 Add Thermal Imaging

- 1) Select Basic Config>Device>Encoder.
- 2) Click Add, see Figure 8-20.

dd Encoder	_	>
Manufacturer:		T
Add Type:	IP Address	*
IP Address:	172.1.1.1	•
Device Port:	37777	•
Username:	admin	•
Password:	•••••	
Device Name:	thermal12	•
Org:	root	•
Video Server:	Center Server	*
	Add	Cancel



- 3) Config IP address, device name and click Add.
- 4) In device type dropdown list select" Thermal Camera", config video channel and etc.
- 5) Click OK.

8.4.2 Thermal Camera Preview on Client

1) Login DNA7000(DSS) Client.



in Basic function area.

3) Double click thermal device channel, open view, see Figure 8-21.

2)



Figure 8-21

8.4.3 Config Thermal Imaging Alarm on Manager

- 1) Select Business>Alarm.
- 2) For contact, link level, alarm storm, TV wall alarm window and etc., please refer to Ch. 8.2.1 -8.2.4.
- 3) Click Alarm Scheme tab.
- 4) Click Add. See Figure 8-22.

Add Alarm Scheme			_	_	×
1 Alarm Time	>	2 Alarm Source and Operation	3	Alarm Preview	
Scheme Name:	•	Time Template:	•	+ Enab	le 🗸
Link Level:	LEVEL 1 🔹 *				
Memo:					
Time Template Details					
Week Time Se	ections				
					Cancel

Figure 8-22

- 5) Enter scheme name, select time template, link level and check Enable.
- 6) Click Next. System shows alarm source and action setup interface.
- 7) Click New.
- 8) In alarm source box, select alarm source, and select fire point alarm, hotspot abnormal alarm and cold spot abnormal alarm. See Figure 8-23.

d Alarm Scheme				×
1 Alarm Time	2	Alarm Source and Operation	3 Alarm Preview	
+ New	🗙 Delete			
SN	Alarm Source	Alarm Type	Link	Operation
dd Alarm Source and Link Operation Alarm Source Device Video Channel Alarm Input	Channel Intelligent Channel ruw statistics Tampering Video Abnormal Traffic Control Junction Rule ANPR Snapshot E Traffic Jam Event Wrong-Way Detect Parking Violation Rise up Detect	A&C Channel System reupie counting Camera Movene Video Damage Traffic Accident ANPR Rule Facial Recogniti Abnormal Runni Missing Object D External Intellig Perimeter protec Hot Point Abnor	ot record re 123 Position: Cer 789 Bit Stream: Ma VTT_1 VTT_1 CAM 1 CAM 5 CAM 5 CAM 6 CAM 7 CAM 8 VT	in Stream V
			💾 Save	🔦 Cancel

Figure 8-23

- 9) In corresponding link action area, select link action.
- 10) Click Save.
- 11) Click Next.
- 12) Click Complete.

When alarm occurs, the system links according to set link info in alarm scheme, and shows detailed thermal imaging alarm info in Statistics>Device Statistics> Device Alarm Statistics.

9TV Wall

DNA7000(DSS) Platform supports video wall, and you must add decoder or matrix device on Manager and then configure TV wall before user may configure TV wall task and output to video wall on Client.

9.1 Add Decoder or Matrix Device

- 1) Login DNA7000(DSS) Manager.
- 2) Select General>Device>Decoder.
- 3) Click Add. System pops up Add Decoder box, see Figure 9-1.

nput Info	_	
Manufacturer: DAHUA	Username:	admin *
IP Address:	* Password:	••••
Device Port: 37777	* Org:	root *
		Getting Info
		Getting into
evice Details		
Device Name:	* Device SN:	
Device Type: NVD	Device Memo:	
Device Type: NVD	Device Memo:	
Channel Amount:	Decode Mode: Pull ▼	Support to Combine

Figure 9-1

Parameter	Note
Device Type	Include Matrix Switcher, Controller.

	Device decoding mode, include pull stream, direct and push stream.
	• Pull: decoder gets stream via DNA7000(DSS) series server.
	• Direct: decoder gets stream directly from device.
Decode Mode	• Push: DNA7000(DSS) series platform push stream to decoder.
	It is pull by default.
	Warning"
	If you want to output ONVIF device to wall, then you shall add
	decoder as NVD or add matrix as DNA8000, select pull for
	decoding mode.
Combine	If decoding supports to combine, check Support to Combine.

9.2 Config TV Wall on DNA7000(DSS) Manager

1) Select Business>TV Wall. System shows TV wall config interface.

🕂 Add

2) Click

System pops up Add TV wall interface, see Figure 9-2.

ıdd TV Wall		
Step 1: TV wall setup	Step 2: Select decode channel	Step 3: Enable
 1. Set general layout 3.Combine to create a screen group 	2. Adjust TV screen 4. Cancel group screen se	tup
Basic Info		
V Wall Scheme Name:		
Memo:		
•		
Back		Next Cancel
	Figure 9-2	
Enter TV wall sche	me name, and click	, select layout to be 1*1, 2*2,
3*3, or 4*4. See Fig		, select layout to be 1-1, 2-2,
0 0, 01 + +. 000 Hg		
0		

You also can click to customize TV wall layout.

id TV Wall		×
Step 1: TV wall setup	Step 2: Select decode channel	Step 3: Enable
 Set general layout Combine to create a screen group 	2. Adjust TV sci 4. Cancel group	
asic Info IV Wall Scheme Name:		
TV Wall1 * Memo:		
	Screen1	Screen2
	Screen3	Screen4
Back		Next Cancel

Figure 9-3

Note:

Press Ctrl and now user may select more than one screen. Click on the right to

combine selected screens. User may cancel combination by clicking on E. Before you combine screens, you must add video wall equipment.

- Double click the screen or right-click and select Properties. In the pop-up box, user may set exact position, size and name of screen.
- Select a screen, and right click to delete or rename the screen.
- 4) Click Next. System displays Select decode channel interface.
- 5) In Device Tree, select decoder and drag it to corresponding TV wall. See Figure 9-4.

™ Wall				
Step 1: TV wall setup	Step 2: Select decode of	channel	Step 3: Enable	
1.Send out print command (Right click a decoder 3.Cancel binding (Right click the screen and can		inding channel (Select a chann	el from the tree to the screen.)	
rice Tree				
Croot C	Screen1 Matrix: M70-E Channel: 6-1		Screen2 Matrix : M70-E Channel: 6-2	
	Screen3 Matrix: M70-E Channel: 6-3		Screen4 Matrix : M70-E Channel: 6-4	
Back			Next	ncel

Figure 9-4

Note: Right-click can cancel current binding and rename screen.

- 6) Click Next. System displays Enable interface.
- 7) Check Apply Now.

Note: If you do not check Apply Now, then user may not select this TV wall on Client.

8) Click Finish.

9.3 Config TV Wall Task on DNA7000(DSS) Client

Via selecting TV wall schemes and bind video with TV wall to output video to wall.



1) Click TV Wall in Basic area.

System displays TV Wall interface.

- 2) Click III at the upper-left corner, select TV wall scheme.
- 3) Drag channel on the right to corresponding screen of TV wall to bind.

See Figure 9-5.



Figure 9-5

No.	Interface	Note
1	TV Wall Scheme	 Image: click to search all TV wall schemes added on Manager-end. Image: click to search all added TV wall tasks. Image: Save task.
2	TV Wall Plan	 add schedule plan. add tour plan.

3	Tour, clear	 M: enable/disable the window tour. Clear.
4		Click ADvanced .
		 Multiple window: open , user may select more than one window or directly select all windows.
	Advanced	 Stream type: main stream, sub stream, three streams, local signal.
		• Duration: time interval of window video touring.
		• EFF : pane
		on/off screen
5	Operation	Click Channel List
		Screen, window, channel binding info
		 Click , user may view if it is the channel you want at the lower-right "preview".
		 Click 1, U to adjust order.
		• Click X, to delete added window signal source.
6	Output to wall, Tour	• instant output to wall, when complete this task, system auto output to wall.
		• Elick to output to wall.
		• O: enable/disable tour plan.

7	Split	• screen split, may split 1~64 screens.
		• Customize screen split.
		• Clear.
		• Screen ON/OFF.
		•
8	Org, Favorite	Select channel from organization or favorite tab.
		Channel under "Org" tab, right click "Add To Favorite", to add it into "Favorite" tab.
		Note:
		Before user may add it to favorites successfully, you
		must click 📙 under "Favorite" tab.
9	Video Preview Window	Double click video channel, auto add to window. In channel binding info bat, click 🙆, to preview video.

- 4) Click 🛄.
- 5) Input Task Name, click OK.
- 6) Click 🖽 to complete.

You also can customize TV wall plan to output video to wall. Please refer to Ch. 4.3.2.

10 Audio Intercom

Via audio talk, user may talk to front-end device and broadcast.

10.1 Audio Talk

Audio talk allows Client to talk to a single front-end device.



1) Click Audio Talk in Basic area. System displays broadcast interface, see Figure 10-1.



Figure 10-1

- 2) Click Audio Talk tab in the upper-right. System shows Audio Talk interface.
- 3) Select a device to talk.

Note:

Audio talk is valid to device only, not to channel.

4) Click System shows interface as in Figure 10-2.

Audio Talk		×
Sampling Rate	8K	v
Sampling Digit	16bits	v
Audio Format	PCM	T
	OK Cancel	

Figure 10-2

5) Set Sampling Rate, Sampling Digit, and Audio Format, click OK. If config match device, system will inform you that audio talk is successfully enabled, see Figure 10-3.



Figure 10-3

If config do not match device, system will inform you that failed to enable audio talk, and show recommended parameter. User may config based on the recommended parameter.
During audio talk, click U

10.2 Broadcast

Broadcast allows the Client to broadcast with multiple front-end devices.

- 1) Click Broadcast tab in Audio Talk interface. System shows Broadcast interface.
- 2) Select multiple devices on the right. The selected devices will be displayed in broadcast list.
- 3) Click (G). System displays Broadcast setup interface, see Figure 10-4.

Broadcast		×
Sampling Rate	8K 🔻	
Sampling Digit	8bits 🔻	
Audio Format	DEFAULT 🔻	
	OK Cancel	

Figure 10-4

- 4) Set Sampling Rate, Sampling Digit and Audio Format.
- 5) Click OK.

If config match device, then you enable broadcast successfully and device in list will show enable status, see Figure 10-5.



Figure 10-5

During broadcast stats, click Control to end broadcast.

11 Video Intercom

Video intercom supports call, remotely unlock, send message, alarm search and etc.

11.1 Config Device

11.1.1 **VTO Setup**

- 1) Login VTO web.
- 2) Select Network>SIP Server.
- 3) Configure platform address, port is 5080, see Figure 11-1.

IP VDP Door St	ation We	eb Server V	/1.0				
System Config Local Config	TCP/IP	F	TP Config	SIP Serve	r Config	Port Config	
LAN Config		IP Address	172.7.57.251]		
 Network Config Video Set 			5080		(1~65535)		
> User Manager		Username Password	8001				
▶ Info Search		SIP Realm	VDP]		
▶ Logout			SIP Server Er	able			
			Warning:The devic	ce needs rebo	ot after modifing t	he SIP server enable.	
			Default	Refresh	ОК		

Figure 11-1

- 4) Select Network Config.
- 5) Set building/unit no. and call number, see Figure 11-2.

IP VDP Door Stat	ion Web Server V1.0
System Config	LAN Config
Local Config LAN Config	Building No. 9
> Network Config	Building Unit No. 3
> Video Set	VTO No. 8004
 User Manager Info Search 	
	Support Building Turn on Turn off
▶ Logout	Support Unit
	Warning: The device needs reboot after modifing the config above.
	Default Refresh OK

Figure 11-2

- 6) Select Local Config>A&C Manager.
- 7) Set unlock password and duress password, check to enable button.
- 8) Set auto snapshot, select Turn On, and when you swipe card at VTO, client will receive the snapshot picture, see Figure 11-3.

IP VDP Door Sta	ation Web Server V	'1.0					
👻 System Config	Local Config A&	C Manager	Talk Manag	ler	System Time	Config Manager	
Local Config LAN Config	Unlock Responding Interval						
 Network Config Video Set 	Unlock Period Door Sensor Check Time			Check E	Door Sensor Signal Befor	e Lock	
 User Manager Info Search 	Open Door Commant	123					
▶ Logout	Lift Control Protocol	Dahua Protocol	• [trol Enable		
	New Unlock Password Confirm						
	New Menace Password]			
	New Menace Password Confirm						
	Auto Snapshot	Turn on	○ Turn off				
		Default	Refresh	ОК			



If you complete this operation on DNA7000(DSS), user may see device platform connection status on VTH device's homepage as online/offline. (Just enter VTO IP, config VTO name)

11.1.2 VTH Setup

- 1) Login VTH and go to Settings>Project Settings.
- 2) In Local Config, config VTH room no. and network address, see Figure 11-4.

Ð		Project Settings	G
	Room No.	9901 Master	Product Into <
	Local IP	172 · 7 · 55 · 239	SIP Server
	Subnet Mask	255 · 255 · 0 · 0	Network
	Gateway	172 · 7 · 0 · 1	
	MAC	4c:11:bf:00:7f:8f	PC Info
	Version	Eng_P_SIP_V1.100.00.0.R.2015112	0 G Default
			Back
	0		
MARINES			

Figure 11-4

3) In SIP server config platform address and port (50800, and enable. User may not modify other info, see Figure 11-5.

	Project Settings	â
IP Address	172 · 7 · 56 · 180	🗔 Product Info
Network Port	5080	SIP Server <
User Name	02029901	Retwork
Password	•••••	
Realm		PC Info
Enable Status		C Default
	ОК	Back



4) In Network, configure corresponding VTO address, and enable, see Figure 11-6.



Figure 11-6

5) Set status check. When you complete basic config info, in VTO homepage, view device config status. If there is no "X" shown, the config is normal. See Figure 11-7.



Figure 11-7

Note:

The first picture represents VTH connection status, and the second picture represents VTH registration status on VTO. "X" means that registration failed. (After you configure VTH, reboot

the device, and it will be linked to platform according to VTO.)

1) VTH zone setup

On VTH, click Security>Zone Status, configure zone info of each channel (zone config login password is 123456.), and user may switch NO/NC status to trigger alarm; in alarm record, user may view alarm record of each zone.

2) VTH DND mode

On VTH, click User Settings>DND configure DND time, see Figure 11-8.



Figure 11-8

11.2 Add Device on DNA7000(DSS) Manager

- 1) Login DNA7000(DSS) Manager.
- 2) Select General>Device>Video Talk.
- 3) Click Add. System pops up Add Video Talk Device box, see Figure 11-9.

Add Video Talk Device		×
Manufacturer:		•
Add Type:	IP Address	•
IP Address:		•
Device Port:	37777	•
Username:	admin	•
Password:	•••••	
Device Name:		•
Org:	root	•
Video Server:	Center Server	•
	Add	Cancel

Figure 11-9

4) Configure VTO info parameter, click Add. You only need to add VTO since VTH will be auto linked to platform via VTO.

11.3 Video Intercom Function on DNA7000(DSS) Client

11.3.1 Video Talk

After you have added VTO and VTH, on DNA7000(DSS) Client, go to Video Talk, and see the device tree on the left in the interface. Building no., unit no. reported by each device will auto generate device organization tree.

1) Login DNA7000(DSS) Client.



In Basic area. System shows Video Talk interface, see Figure 11-10.

2)

DSS Digital Surveillance System	Homepage Video Talk	_				? =
Video Talk	Info Release Event Management	t				
Organization		Online:1	Offline:2	1	2	2
■ ♣ root ■ ♣ Building 2	2-1-VTO 02018006	2-4-VTO 02048003		1	2	3
G Far Building 2 - Building 2 - Building 2 - Building 2 - Building 2 - Building 2	02018006	02048003		4	5	6
	2-4-9088			7	8	9
	2-4-9088 02049088			-	0	#
					ر د	
	<			All	Missed	Ô

Figure 11-10

According to building no., unit no., and other VTHs reported by the device, it will auto generate contacts.

> If a user wants to call a unit VTO via client.

Click on VTO.

Call is one-way from clien to VTO only.

System pops up a box, see Figure 11-11.



Figure 11-11

- 1). Click _____.
- 2). System pops up confirmatio box, click OK.

User may unlock remotely.

3). Click to stop call.

Call box will not be closed.

> If a user wants to call a specific VTH from client.



Call is bidirectional between client and VTH.

System pops up a calling box, see Figure 11-12.



Figure 11-12

2). When VTH accepts call, the user can start a bidirectional talk.

See Figure 11-13.



Figure 11-13

• VTH does not accept call in 60s, then client will prompt user and ask if he/she wants to

redial. The user may click _____ again to redial.

- If the VTH being called is busy, client will prompt user to call again later.
- > If the VTO is calling the client.

Client pops up VTO calling box, see Figure 11-14.



Figure 11-14

User may click , to accept VTO call, and start a bidirectional talk.

Also user may click **to** unlock.

> If the VTH is calling the Client.

Client pops up VTH call box, see Figure 11-15.



User may click to talk with VTH.

If there is missing call, user may click missing call shown in red Call Record at the lower-right corner in Talk interface, see Figure 11-16.

	All	Missed	D
V	2-2-VTO 02028001		Today 16:34
S.	2-2-VTO 02028001		Today 16:32

Figure 11-16

Click , user may call back.

You also can view ALL of call records.

On the right, there are

here enter call number to fuzzy search.



In **the right**, you also can directly dial VTO to call VTH either one-way or bidirectionally.

11.3.2 Send Message

In Message Publish interface, user may add announcement or notice, which can be sent to each VTH and users can view them on VTH.

11.3.3 Event Search

In Event Search interface, user may search for alarm event and unlock type. You also can learn about time of alarm, device location when alarm occurs, plus alarm status.

12 Mobile

12.1 Add DLA1100 Device

12.1.1 DLA1100 Device WEB Platform

- 1) Login device web.
- 2) Select Platform Settings.
- Enable platform connection button, fill in device ID, IP address, port and other info, see Figure 12-1.



Figure 12-1

4) Click OK.

12.1.2 Add DLA1100 Device on Manager

- 1) Login Manager-end.
- 2) Select Device>Encoder.
- 3) Click Add.
- 4) Configure parameter info, select auto for method, and register ID shall match device ID. Device type is DLA1100, check "Add ITC". See Figure 12-2.

ut Info Add Type: Auto I Video Server: Cente Registration ID: mpt			Manufacturer		
Video Server: Cente			Manufacturer		
	r Server				
Registration ID:mpt			Username: adm	in	•
			Password:		
			Org::10-40	04(shenji)	
			Ge	tting Info	
ice Details					
Device Name:mpt30	0		Device SN:		
Device Type: MPT3	00	1.	Device Memo:		
Add ITC					
channel Alarm Inp		Bit Stream: Sub Stream	Zero Channel Code	Device Gateway	
Enable ALL		Provide and			
1 Name:mp	600_1	Function:	Camera Type: Speed Don	ne 🔻 SN:	



5) Click OK. User may view it in Device>ANPR Device.

12.2 Add Mobile Device

12.2.1 Device WEB Setup

- 1) Login Device WEB.
- 2) Select Setup>Mobile>Auto Register,
- 3) Enter Server IP, Port. See Figure 12-3.

WEB SERVICE	Live	Playback	Alarm	Setup	Logout	
Channel	Auto Registe	r				
Network ≥Event	Inable					
Storage System	Server IP Port	172.7.55. 9500	187			
Information	Sub-device ID	M2181				
Vehicle Vehicle		Sav	/e Refre	esh Defa	ult	
> WIFI > 3G						
 Auto Register Auto Maintain 						
AbnormalityDisplay						
> Sensor						



4) Click OK.

12.2.2 Add Mobile Device on Manager-end

- 1) Login DNA7000(DSS) Manager-end.
- 2) Select General>Device>Encoder.
- 3) Click Add. System pops up Add Encoder box, see Figure 12-4.

Add Type: Auto Register Video Server: Center Server Video Server: Center Server Registration ID: M2181 Password Org:XI-4004(shenij) Getting Info ice Details Device Name 218test Device Name 218test Device SN: Device SN: Dvice SN: Dvice SN: Dvice SN: Dvi	•
Registration ID M2181 • Password ••••• Org X1-4004(shenji) Getting Info Ice Details Device Name 218test • Device SN	
Org-XI-4004(shenji) Getting Info vice Details Device Name 218test Perice SN	•
Vice Details Device Name 218test Perice SN	•
vice Details Device Name 218test Device SN	
Device Name 218test Pevice SN	
Device Type: MDVR V Device Memo:	
~	
o Channel Alarm Input Channel Alarm Output Channel Channel Amount 4 × Bit Stream Sub Stream × Zero Channel Code Device Gateway	
Enable ALL	
1 Name 218test_1 Function:	
2 Name: 218test_2 Function:	
3 Name:218test_3 Function: Camera Type: Speed Dome SN:	
4 Name:218test_4 Function V Camera Type Speed Dome V SN:	

Figure 12-4

- 4) Set parameter info. For device type, usually users select MDVR.
- 5) Click OK.

User may search for added device in encoder page as to view device online/offline, and modify or delete device. See

٩	Encoder	Decoder	Video Wall	Alarm Host	ANPR	IVS	Matrix	•
	Keyword:		Type: All	▼ Manut	acturer: All	•		
	Add Type: All	•	Status: All	▼ Video	Server: All	•	Q Search	
	Q Auto Search	+ Add	🗙 Delete	👱 Imp	ort 🗡	Export		
	Encode	IP/Domain	Video Server	Device Name	Туре	Org	Status	Operation
	1000028	172.7.57.77	Center Server	172.7.57.77	NVR	root	Online	/×¢
	1000026	172.7.56.188	Center Server	nvr188	NVR	root	Online	/×0
	1000023	172.7.56.177	Center Server	nvr	NVR	root	Online	/×¢
	1000019	172.7.55.159	Center Server	IVS-B	Smart IPC	root	Online	/× \$
	1000018	172.7.56.28	Center Server	172.7.56.28	Smart IPC	root	Online	/×0
	1000013	172.7.56.218	Center Server	NVR_218	MDVR	root	Online	/×¢
	1000006	172.7.56.231	Center Server	172.7.56.231	IPC	root	Online	/×¢
	1000027	172.12.1.204	Center Server	nvr	NVR	root	Offline	/ ×
	1000024	172.7.56.106	Center Server	106	Smart IPC	root	Offline	/×

Figure 12-5.

•	Encoder	Decoder	Video Wall	Alarm Host	ANPR	IVS	Matrix	►
	Keyword:		Type: All	▼ Manuf	acturer: All	•		
	Add Type: All	Υ.	Status: All	▼ Video	Server: All	•	Q Search	
	Q Auto Search	+ Add	🗙 Delete	👱 Impo	ort 🔰	Export		
	Encode	IP/Domain	Video Server	Device Name	Туре	Org	Status	Operation
	1000028	172.7.57.77	Center Server	172.7.57.77	NVR	root	Online	/×¢
	1000026	172.7.56.188	Center Server	nvr188	NVR	root	Online	/×¢
	1000023	172.7.56.177	Center Server	nvr	NVR	root	Online	/×¢
	1000019	172.7.55.159	Center Server	IVS-B	Smart IPC	root	Online	/×¢
	1000018	172.7.56.28	Center Server	172.7.56.28	Smart IPC	root	Online	/×¢
	1000013	172.7.56.218	Center Server	NVR_218	MDVR	root	Online	/×¢
	1000006	172.7.56.231	Center Server	172.7.56.231	IPC	root	Online	/×¢
	1000027	172.12.1.204	Center Server	nvr	NVR	root	Offline	/ X
	1000024	172.7.56.106	Center Server	106	Smart IPC	root	Offline	/×

Figure 12-5

Under operation column, there is edit, delete and config icon for existing encoder.

12.3 Mobile Info

12.3.1 Add Driver Information

- 1) Login DNA7000(DSS) Manager-end.
- 2) Select Mobile>Mobile Info>Driver.
- 3) Click Add. System pops up Add Driver box, see Figure 12-6.

Name:	test1	*	IC Card No.: test1	X *	
Organization:	XJ-4004(shenji)	*	Password:	*	
sic Info License Info	o Service Info				
ID:			Cell Phone No.:		
Birth Date:			Enrollment Time:	(1)	
Certificate Time:			Gender: Male	•	
Blood Type:	Туре О	T	Education:		
Political Status:					
Contact Person:			Relationship:		
Postcode:			Phone No.:		
Address:					

Figure 12-6

4) Enter basic info, click OK.

User may search added driver by keyboard and gender, as well as modify and delete driver.

See Figure 12-7.

Mobile Info Mobile Statistic	s						
Driver 🔛 Vehicle Man	agement	Device Asso	ciation				
Q	Ke	yword test1		Gender All	▼ C	Search	
EVS ECC	+	Add	X Delete				
NVR		Name	Organization	IC Card No.	Cell Phone No.	Gender	Operation
HIK MDVR		test1	XJ-4004(shenji)	test1		Male	/×

Figure 12-7

12.3.2 Vehicle Management

- 1) Select Mobile>Mobile Info>Vehicle Management.
- 2) Click Add. System pops up Add Vehicle box, see Figure 12-8.

Mandatory Information Organization: XU-4004(shenjii) Plate No:: A100004 Vehicle No:: A100004 Basic Info Vehicle Info Vehicle Info Vehicle Type: Unknown Vehicle Type: Unknown Vehicle Color: Others Vehicle Color: Others Vehicle Color: Others Vehicle Color: Others Vehicle Type: Unknown Vehicle Property: Intensification Installation Time:	Add Vehicle				_	_	×
Plate No::A100004 Vehicle No::A100004 Basic Info Vehicle Info Vehicle Type: Unknown Vehicle Color: Others Vehicle Color: Others Plate Type: Unknown Vehicle Property: Intensification Installation Time: SIM Card Type: In-province	Mandatory Information	on					
Vehicle No.: A100004 Basic Info Vehicle Info Vehicle Type: Unknown Vehicle Color: Others Vehicle Color: Others Vehicle Color: Others Vehicle Type: Unknown Vehicle Type: Unknown Vehicle Model: Vehicle Property: Intensification Vehicle Property: Intensification SIM Card Type: In-province Vehicle Vehicle Vehicle Vehicle Property: Unicom Vehicle Vehicle Vehicle Property: Unicom Vehicle Vehicle Vehicle Vehicle Property: Intensification Vehicle	Organization:X	J-4004(shenji)	*				
Basic Info Vehicle Info Vehicle Type: Unknown Vehicle Color: Others Vehicle Color: Others Second Plate: Plate Color: Plate Type: Unknown Vehicle Property: Intensification SIM Card Type: In-province	Plate No.:A	100004	•				
Vehicle Type: Unknown ▼ Registration Place: Vehicle Color: Others ▼ Vehicle Technical Level: Second Plate: Plate Color: Others ▼ Plate Type: Unknown ▼ Vehicle Model: ■ Vehicle Property: Intensification ▼ Installation Time: ■ SIM Card Type: In-province ▼ SIM Card Property: Unicom ▼	Vehicle No.:A	100004	•				
Vehicle Type: Unknown ▼ Registration Place: Vehicle Color: Others ▼ Vehicle Technical Level: Second Plate: Plate Color: Others ▼ Plate Type: Unknown ▼ Vehicle Model: ■ Vehicle Property: Intensification ▼ Installation Time: ■ SIM Card Type: In-province ▼ SIM Card Property: Unicom ▼							
Vehicle Type: Unknown ▼ Registration Place: Vehicle Color: Others ▼ Vehicle Technical Level: Second Plate: Plate Color: Others ▼ Plate Type: Unknown ▼ Vehicle Model: ■ Vehicle Property: Intensification ▼ Installation Time: ■ SIM Card Type: In-province ▼ SIM Card Property: Unicom ▼	Basic Info	0]
Vehicle Color: Others ▼ Second Plate: Plate Color: Others ▼ Plate Type: Unknown ▼ Vehicle Model: ▼ Vehicle Property: Intensification ▼ Installation Time: □ SIM Card Type: In-province ▼ SIM Card Property: Unicom ▼	Venice in		_				
Second Plate Color: Others Plate Type: Unknown Vehicle Property: Intensification SIM Card Type: In-province SIM Card Type: In-province	Vehicle Type:	Unknown	•	Registration Place			
Plate Type: Unknown Vehicle Model: Vehicle Property: Intensification Installation Time: SIM Card Type: In-province Installation Time:	Vehicle Color:	Others	•	Vehicle Technical Level			
Vehicle Property: Intensification ▼ Installation Time: Installation Time: SIM Card Type: In-province ▼ SIM Card Property: Unicom ▼	Second Plate:			Plate Color	Others	•	
SIM Card Type: In-province SIM Card Property: Unicom 🔻	Plate Type:	Unknown	•	Vehicle Model			
	Vehicle Property:	Intensification	•	Installation Time			
Memo:	SIM Card Type:	In-province	•	SIM Card Property	Unicom	•	
	Memo:			~			
× − − − − − − − − − − − − − − − − − − −				~			
OK Cancel						ОК	Cancel

Figure 12-8

3) Enter basic info, click OK. User may searched added vehicle plug modify and delete vehicle. See Figure 12-9.





12.3.3 Device Association Management

User may associate existing MDVR device with existing driver and vehicle.

- 1) Select Mobile>Mobile Info>Device Association.
- 2) Select device to associate, click Associate.
- 3) System pops up Edit Device Association box, see Figure 12-10.

Edit Device Association	n	_	_	×
Device Encode:1	000033			
Device Name:2	18Test			
Vehicle:A	100004			
Driver:te	est1			
			OK	Cancel

Figure 12-10

Note: You may select vehicle and driver according to you need.

4) After association is complete, click OK to save. Then the device, driver and vehicle are associated.

On Client mobile map, above device user may see the association information same as on Manager-end. See Figure 12-11.



Figure 12-11

The following is vehicle info associated with device.



Figure 12-12

12.3.4 Mobile Statistical Report

In Mobile Statistics, user may search detailed GPS abnormal report, history GPS report, device status report, overspeed statistics, and area alarm report via different criteria, and export log.

For example, you search for electronic virtual fence, the steps are as follow:

- 1) Select Mobile>Mobile Statistics> area alarm report.
- 2) On organization tree, select organization structure you want to search and enter search criteria, click Search.
- 3) The system displays search result, see Figure 12-13.

General B	usiness Cascade	System S	tatistics Mobile		
Mobile Info	Mobile Statistics				
GPS Abnormal Re	eport History GPS Report	Device Status Report	Overspeed Statistics	Area Alarm Report	
No Data Duration Mo	re Than: All	Q Search			
📩 Export					
Device Name	GPS Recent Update	Recent Online Status	Status Update Time	Wireless Status	No Data Duratio
218test	2016-05-10 17:05:49	Online	2016-05-10 11:25:16	Offline	OMinute
test302	2016-05-10 14:45:46	Offline	2016-05-10 09:28:08	Offline	2Hour19Minute
test303	2016-05-10 14:45:46	Offline	2016-05-10 09:28:27	Offline	2Hour19Minute
test301	2016-05-10 14:45:46	Offline	2016-05-10 09:27:50	Offline	2Hour19Minute
test304	2016-05-10 14:45:46	Offline	2016-05-10 09:28:48	Offline	2Hour19Minute
test305	2016-05-10 14:45:46	Offline	2016-05-10 09:29:06	Offline	2Hour19Minute
M127	2016-05-07 15:43:16	Offline	2016-05-06 15:38:51	Offline	3Day1Hour20Min
M218	2016-05-07 10:57:11	Offline	2016-05-05 11:35:56	Offline	3Day6Hour7Minu
mpt3011	2016-05-07 10:53:12	Offline	2016-05-06 15:54:34	Online	3Day6Hour10Min
M117	2016-05-05 19:08:43	Offline	2016-05-05 20:11:13	Offline	4Day21Hour55Min
	2016-05-10 17:05:49	Online	2016-05-09 17:08:58	Offline	OMinute
218Test					

Figure 12-13

4) Click Export, to export search result.

Log	Note
GPS Abnormal Report	Used to record device data during non GPS data duration.
	User may search for detailed GPS abnormal info via non data duration.
History GPS Report	Used to record device history GPS data.
	User may search detailed device GPS history data via organization tree node, period, device name and etc.
Device Status	Used to record device online or offline status.

Log	Note
Report	User may search device status via organization tree node, period and etc.
Overspeed Statistics	Used to record device overspeed status. User may search detailed overspeed info via organization tree node, period and etc.
Area Alarm Report	Used to record alarm condition in electronic virtual fence. User may search for detailed alarm info via organization tree node, period and etc.

12.4 Violation Query

According to set time, period, snapshot location, plate and other criteria, user may search for ANPR device snapshot all pictures.

For example, you want to search for all plates with letter "A":

1) Select ANPR info search.

The system shows General interface.

- 2) Select by period, enter snapshot date and snapshot period.
- 3) Check Fuzzy Search, and enter "A" in plate no.
- 4) Click Search, see Figure 12-14.

DSS Digital Surveillance System	Homepage Violation Query		_	-	-		_	? 🖴 –	
General	Time: ● By Time ● By Perior Start Time: 2016-05-09 00:00:00 Location: 1 I Fuzzy Search	1 2	-		6-05-09 23:59: cclude A Mc	59 ore Criteri		Search	
	😑 List 👯 Pic							Export Export	All
	Associated Image		Plate Image	Plate No.	Plate Color	Location	Time 👻	Operation	
			A PA801	浙APA807	Blue	1	2016-05-09 15	Q/4	
			A-PA801	浙APA807	Blue	1	2016-05-09 15	Q/L	
	and the second se		BA PASO	浙APA807	Blue	1	2016-05-09 15	Q/L	
			MA PASOT	浙APA807	Blue	1	2016-05-09 15		
			BA PA801	浙APA807	Blue	1	2016-05-09 15	Q/H	
			MA PA801	浙APA807	Blue	1	2016-05-09 15	Q/L	
			A PA807	浙APA807	Blue	1	2016-05-09 15	Q / 1	
	1 2 3		PA801	浙APA807	Blue	1	2016-05-09 15	Q / ±	
	Plate No.: 浙APA807 Plate Color: Blue		PA801	浙APA807	Blue	1	2016-05-09 15		
	Car Color: Black		MA-PA801	浙APA807	Blue	1	2016-05-09 15	Q/1	
	Location: 1 Time: 2016-05-09 15:13:03		PA801	浙APA807	Blue	1	2016-05-09 15	Q/H	
	State: 浙江省 杭州市		A PA801	浙APA807	Blue	1	2016-05-09 15	Q/1	
	Direction : SW-NE Speed(km/h): 0		MA-PA801	浙APA807	Blue	1	2016-05-09 15	Q/1	
	Vehicle Brand: Other		A PA801	浙APA807	Blue	1	2016-05-09 15	Q/1	
			MA-PA807	浙APA807	Blue	1	2016-05-09 15	Q/1	
			A PA807	浙APA807	Blue	1	2016-05-09 15	Q/H	
			BA PA801	浙APA807	Blue	1	2016-05-09 15	Q/4	
			A PA801	浙APA807	Blue	1	2016-05-09 15	Q/4	
		Sta	tistics Page1		alise .	K	CPU IIIIIIII		

Figure 12-14

Note:

User may use the exclusion function to block certain results.

12.5 Mobile Interface

12.5.1 Introduction of Mobile Interface

Mobile interface provides key monitoring, live preview, audio talk, record playback, pattern playback and statistics.



Figure 12-15



at the upper-left corner of map, it has four arrows pointing at four directions.

User may move the map by clicking this button. Below it there is zoom in/out button.

Functions of mobile interface are shown below.

No.	Interface	Note
1	Map Operation	 Clear screen, clear operation on map. Switch, switch city on map. Search, search place on map and position it. Hide, hide device name shown on map. Zoom, right click mouse to zoom map. Point, select device by point. Line, select device by pine. Panel, select device by pane. Circle, select device by circle. Reset, if map has shifted, click reset to restore current position. Distance, measure distance between selected points. Area, measure area of selected region. Mark, mark on map.

No.	Interface	Note
2	Device List and Electronic Virtual Fence	 Checked device under "Device "tab means that the device is subscribed. Detailed info is shown under "Real-time GPS" tab. Under "Device Type" tab, user may check device type to filter. Under "Electronic Virtual Fence" tab, user may create speed limit area, driving area and etc. When a vehicle passing Electronic Virtual Fence area is not driving according to the law, the system will alarm. Alarm info will be shown under global overspeed, speed limit, emergenct and other alarm tabs.

No.	Interface	Note
3	Real-time GPS	 Real-time GPS may show subscribed device info. Double click device to view live preview. Under "Online" tab, see if device is online. Under "Vehicle" tab, it shows vehicle info. Under "Organization" tab, it shows organization of the vehicle. Under "Speed" tab, it shows vehicle speed. Under "Position" tab, it shows whether the vehicle is being positioned. Under "Time" tab, it shows real-time GPS receiving time. Under "3G signal" tab, it shows network intensity. Under "Device ID" tab, it shows device ID. Under "Position" tab, it shows vehicle current position.

12.5.2 Right Click Device

12.5.2.1 Right Click Device

In Mobile interface, right click device under Device tab, user may see Figure 12-16.



Figure 12-16

12.5.2.2 Key Monitoring

- 1) Under Device tab, check one device to subscribe it. The interface shows device GPS info plus device real-time info and associated info.
- 2) Right click the device, select key monitoring, see Figure 12-17.



Figure 12-17

Note: The map shows vehicle driving pattern within previous 10 minutes. User may double click any row to position it on map.

12.5.2.3 Live Preview

The system shows 4 live preview channels by default.



In Key Monitoring interface, click evice and select live preview. The system shows live preview video, see Figure 12-18.



Figure 12-18

No.	Interface	Note
1	Select Channel	 By checking to select channel you want to be shown.
2	Snapshot	 By snapshot, user may snapshot picture from video.
3	Send	• Enter or select one message, send it to mobile device. User may click to edit message template. You may expand message button to see an ad option which you may also edit to be sent.

Note:

The device currently only has one window for edition of message and ad. After message or ad is sent, it will be shown in video window, see Figure 12-19.



Figure 12-19

12.5.2.4 Audio Talk

User may right click on device to select audio talk function. See Figure 12-20.



Figure 12-20

Note:

User can directly talk to device on Client.

User may adjust volume of MIC and earphone on this page.

12.5.2.5 Record Playback

Right click on device to select record playback function, see Figure 12-21.



Figure 12-21

Record playback supports search and playback of device record and center record. Click area containing record to position this time point of record.

12.5.2.6 Pattern Playback

Under Device tab, right click device and select pattern playback, user may enter Pattern Playback interface. Select one of GPS, device and platform to search and playback pattern of current device.

- > GPS: display current device GPS info and pattern.
- > Device, display current device record.
- > Platform, display current platform central record (record in record plan).

For example to search GPS, platform steps:

- 1) Configure start time and end time.
- 2) Select GPS.
- 3) Click Search.

See Figure 12-22.



Figure 12-22

12.5.2.7 Statistics

User may search GPS module status report, overspeed report, fence alarm report, history GPS and device offline report.

For example, to search GPS report:

- 1) Right click device and select report>history GPS.
- 2) Enter search period.
- 3) Click Search. See Figure 12-23.
| Period: 2016-05-0 | 9 00:00:00 <mark>-</mark> 2016 | -05-09 23:59:59 | Q Search | | |
|---------------------|--------------------------------|-----------------|------------|-----------|-------------|
| 초 Export | | | | | |
| Date and Time | Device Name | Organization | Longitude | Latitude | Speed(Km/h) |
| 2016-05-09 15:40:11 | M1271 | MDVR | 120.16883 | 30.186205 | 0.0 |
| 2016-05-09 15:40:05 | M1271 | MDVR | 120.16883 | 30.186201 | 0.0 |
| 2016-05-09 15:39:59 | M1271 | MDVR | 120.16884 | 30.186197 | 0.0 |
| 2016-05-09 15:39:53 | M1271 | MDVR | 120.16884 | 30.186192 | 0.0 |
| 2016-05-09 15:39:47 | M1271 | MDVR | 120.16884 | 30.186188 | 0.0 |
| 2016-05-09 15:39:41 | M1271 | MDVR | 120.168846 | 30.186184 | 0.0 |
| 2016-05-09 15:39:35 | M1271 | MDVR | 120.168846 | 30.186182 | 0.0 |
| 2016-05-09 15:39:29 | M1271 | MDVR | 120.168846 | 30.186182 | 0.0 |
| 2016-05-09 15:39:23 | M1271 | MDVR | 120.168846 | 30.186184 | 0.0 |
| 2016-05-09 15:39:17 | M1271 | MDVR | 120.16885 | 30.186184 | 0.0 |
| 2016-05-09 15:39:11 | M1271 | MDVR | 120.16885 | 30.186182 | 0.0 |
| 2016-05-09 15:39:05 | M1271 | MDVR | 120.16885 | 30.18618 | 0.0 |
| 2016-05-09 15:38:59 | M1271 | MDVR | 120.16885 | 30,18618 | 0.0 |

Figure 12-23

User may click Export to export result of search in Excel format to local.

Report	Note
GPS Module Status	Statistics of current device GPS module status info
Overspeed Info	According to Start Time, End Time, Alarm Type, Overspeed and Alarm Interval, make statistics of current device and overspeed info.
Fence Alarm Info	According to Start Time, End Time, Alarm Type and Vehicle, make statistics of current device fence alarm info.
History GPS	Statistics of vehicle history GPS info, including the vehicle longitude, latitude, speed and etc. Click Position to find vehicle on map.
Device Offline Info	Statistics of current device offline status info.

12.5.3 Icon above Device

On mobile map, user may see icon above device, see Figure 12-24.





User may click these icons or right click device to get corresponding functions:



12.5.3.1 Recent Pattern

Recent pattern shows device recent pattern, see Figure 12-25.



Figure 12-25

Note:

Red line in picture is the recent pattern.

12.5.3.2 Address Analysis

Address analysis button can help you exchange GPS info into real position.

12.5.4 Configure Electronic Virtual Fence

Click Electronic Virtual Fence, see Figure 12-26.



Figure 12-26

Config method of limit, drive, forbid, start, arrive are the same, here uses limit as an example.

1) Click limit, see Figure 12-27.

Device E-fence Pence Center Device Center In pence Center Device Center Device Center Device Center Composition Comp	Omepage	🕅 Full-Screen	k the map ce setup. mouse to last video	Zoom 🕞 R	eset [Pane 🕞 Cr	cle *** More	? = -	
	Real-time GP	ine Vehicle	Organization MDVR	Speed KM/H	Position	Time 2016-05-09 1	3G Signal	ResidualFlow MB	D 1000
	Offlin		MDVR	0		2016-05-09 1			1000
	Offlin	ne mpt301	MDVR	0		2016-05-09 1			100(
	Offlin	ne mdvr218	MDVR	0		2016-05-09 1			1000
	Offlin	ne M217	MDVR	0		2016-05-09 1	(1000
	Onli	ne M1271	MDVR	0	Located	2016-05-09 1	NET IIII	IIII 🔎 [📑 🚺 [(1)

Figure 12-27

2) Click a point on map to add limit area. User may add point progressively. Double click point to end adding. See Figure 12-28.



3) Double click on red text above, it pops up fence property box, see Figure 12-29.



Figure 12-29

Note:

In Fence Property box, user may configure fence type, speed limit and fence name.

When you complete config, click OK. The new limit area will be shown under limit tab of Electronic Virtual Fence.

13IVS Analysis

The system currently supports people statistical information and heat map.

13.1 Add Smart IPC Device

Before using this statistical function, you must add SmartIPC device on DNA7000(DSS) Manager.

- 1) Login DNA7000(DSS) Manager.
- 2) Select General>Device>Encoder.
- 3) Click Add. System pops up Add Encoder box.
- 4) Configure parameter info, select Smart IPC for device type, check People Count box. See Figure 13-1.

Add Encoder					×
Input Info					
Add Type: IP Address	×		Manufacturer:	*	
Video Server: Center Serve	r • •		Username:admin		
IP Address:			Password:		
Device Port:37777			Orgiroot		
			Getting Info		
Device Details					
Device Name:			Device SN:		
Device Type: Smart IPC			Device Memo:		
Video Channel Alarm Input Cha	nnel Alarm Output Channel				
Channel Amount:	Bit Stream: Sub S	tream 🔻	Devic	e Gateway	
Enable ALL					
1 Name:1	Function:		a Type: Speed Dome 🔹	SN:	
People Count					

Figure 13-1

5) Click OK.

13.2 People Statistical Report

1) Login DNA7000(DSS) Client.



- 2) Click in Extension area.
- 3) On the left, select device channel, configute alarm type, statistical time, click Search.

See Figure 13-2.

DSS Digital Surveillance System	Homepage IVS Analysis		? 😐 – 🗆 ×
PersonCount HeatMap			
Input contents	Type: Daily 🗸	Time: 2016-03-11	Q Search
	🗠 🔟 😑	Display Value	L Export
	Count	-e- Enter -=- Exit	
	80		
	60		
	40		
		5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Hour 24
	Count	Retention	
	100		
	60		
	40		
		5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Hour 24

Figure 13-2

4) Click "HeatMap". See Figure 13-3.

Note:

Device real-time upload heat map data to platform, start from adding device, user may search heat map statistical data, but search is in unit of week. (Interval between start time and end time is up to 7 days).



Figure 13-3

14 Smart Track

DNA7000(DSS) platform client support smart track, which links fisheye camera and general camera, easily monitor each spot.

Note:

Before using smart track function, you must add fisheye device in Basic Config>Device on

Manager (after adding device, click *n*, in channel dropdown list select "fisheye (rear calibration) and general speed dome. Please see Ch. 5.1.



- 1) In Extension area click
- 2) Click Add Scheme. See Figure 14-1.

Add Monitor Position	n	×
itor Position Name	11	
FishEye name	IPC	
peed Dome Name:	IVS-B_1	
Remark		
	ОК	Cancel

Figure 14-1

 Configure monitor position name, select fisheye name and speed dome name, click OK. See Figure 14-2.



Figure 14-2

 Click Add Calib, and select one spot in fisheye video on the left. Then find this spot in general speed dome video on the right, adjust PTZ to center position (green cross in video).

Note:

- Select 3-8 calibration points in fisheye video.
- When you find the calibration points in general video on the right, click PTZ.
- Click LQ, using 3D positioning, when you click a certain spot in video on the right, it will auto moved to center position.
- 5) Click save.
- 6) Follow step 4-5 to add at least three calibration points which shall not be linear.

See Figure 14-3.



Figure 14-3

7) Click OK. See Figure 14-4.



Figure 14-4

8) Click , enter Smart Track interface, see Figure 14-5.



Figure 14-5

- 9) Click any point on in fisheye video on the left, the general speed dome on the right will auto link to the corresponding position.
- 10) Click Config Manager at the upper-right corner to shows add calibration point interface.
- 11) Click Playback at the upper-right corner to return to smart track interface.

15 Access Control

Access control function supports to unlock door, process alarm information and bind video.

15.1 DNA7000(DSS) Manager Device

15.1.1 Add A&C Device

- 1) Login DNA7000(DSS) Manager.
- 2) Select General>Device>Access Control.
- 3) Click Add. System pops up Add A&C box, see Figure 15-1.

Add A&C		×
Input Info		
Manufacturer:	Video Server: Center Server 🛛 🔻 =	
IP Address:	Username:admin .	
Device Port: 37777	Password: •••••	
	Org:root	
	Getting Info	
Device Details		
Device Name:	Device SN:	
Device Model: DH-85C1221A	Device Memo:	
	-	
A&C Channel		
Channel Amount:		
N		
	OX Cance	8

Figure 15-1

4) Configure access control parameter, click OK.

15.1.2 Unlock Timeout Config

The system supports to configure timeout unlock. If a user unlocks door over this time threshold, then it will link to alarm.

The higher the level, the higher the threshold value will be.

- 1) Select Business>Unlock Overtime.
- 2) Enter alarm level name and threshold value, see Figure 15-2.

Alarm Level name		Threshold				
Level 1		10	Minute(s)*			
Level 2		8	Minute(s)*			
Level 3		6	Minute(s)*			
Level 4		4	Minute(s)*			
Level 5		2	Minute(s)*			
(i) The level 1 has	(i) The level 1 has the highest level and the level 5 has the lowest level. The higher					
	the leve	l, the bigger the thresho	d.			
	Submit	Cancel				

Figure 15-2

3) Click Submit.

15.1.3 Link Video

DNA7000(DSS) Manager supports to bind video resource to A&C. When A&C has alarm, it will play bound video resource.

1) Select Business>Link Video>A&C.



Setup Resource Binding		×
Click to View Help		
Source Channel	Video Channel	
	ОК	Cancel

Figure 15-3

- 3) Select A&C source and linked video channel.
- 4) Click OK.

15.2 Access Control

1) Login DNA7000(DSS) Client.



- in Extension area.
- 3) In device list on the right, select different A&C devices, so it will show different A&C unlock information, door sensor and overtime alarm.

User may view lock/unlock, door sensor, overtime alarm information in each of the following tab.

4) Double click alarm record below, user may view alarm details.

2)

16 Alarm Controller

DNA7000(DSS) platform supports to manage alarm controller, and to arm, disarm, bypass alarm controller.

16.1 Add Alarm Controller Device

- 1) Login DNA7000(DSS) Manager.
- 2) Select General>Device>Alarm Controller.
- 3) Click Add.

System pops Add Alarm controller box. See Figure 16-1.

nput Info Manufacturer:	
Manufacturer:	
	Video Server: Center Server 🔹 🔹
IP Address: •	Username:admin *
Device Port:37777 +	Password: •••••
	Org.root
	Getting Info
rvice Details	
Device Name:	Device SN:
Device Model: DH-AF6016	Device Memo:
arm Input Channel Alarm Output Channel Channel Amount:	

Figure 16-1

- 4) Configure parameter info, click OK.
- 5) Refer to Ch. 13.1.1 to configure linked video of alarm controller device.

16.2 Alarm Controller

1) Login DNA7000(DSS) Client.



2)

Click

, system shows Alarm controller interface.

Alarm controller interface shows all added alarm controller device and zone, the shown device status includes online, offline, alarm, bypass, arm and disarm. User may filter device by status.

On the right, select different alarm controllers which lead to different zones. Select root, to show all zones. See Figure 16-2.





User may batch select device and zone to arm and disarm. Double click zone, to view zone details and monitoring video. Double click alarm info, system pops up alarm details page.

User may view current live preview and record video, and process current alarm. Processing status includes processed, pending, in progress, miss-alarmed and ignored. Processes status will be shown in status in alarm info list.

17 Device Config

After you add device in Device interface, user may configure device parameter in Device Config interface.



In homepage, click **Config** or in Device interface, click **S** of target device to enter Device Config interface. See Figure 17-1.

DSS Assist Tool	-	-	-	-	-	- & ×
DSS: 20.2.33.10						
Input search crit	General					
■						
	Network	Remote Device	Encode	Image	PTZ Control	
⊯ डि. MDVR (1 ⊯ डि. Onvif (2/2 ⊯ डि. HIK (4/5)	Event					
	Q	▲	B	Â.		
😡 onvif57.3 😡 189	Video Detect	Alarm	Abnormality	Smart Config		
 172.7.57 • onvif88_1 • AR8S8 	Storage					
	\otimes					
	Record	HDD				
	Maintenance					
© IPC-106 © IPC-239 © ars-145 1		¢ [¢]	Ø			
€ HIK-121_1	Account	Maintenance	WEB			

Figure 17-1

17.1 General Setup

17.1.1 Network

User may set network TCP/IP, Connection, PPPoE, DDNS, IP right, SMTP, FTP, multicast, alarm center, ARS, P2P and etc. See Figure 17-2.

		Network - 20.2.33.20(IPC-20)	×
TCP/IP			
Connect	Mode		
PPPoE	MAC Address	90:02:a9:1e:c2:f8	
DDNS	IP Address	20.2.33.20	
IP Filter	Subnet Mask	255.255.255.0	
SMTP	Default Gateway Preferred DNS	20.2.33.1 8.8.8.8	
FTP	Alternate DNS	8.8.8	
Multicast			
Alarm Centre			
ARS			
P2P			
		Apply Save	Cancel

Figure 17-2

17.1.2 **Remote Device**

User may auto search or manually search to add remote device, see Figure 17-3.

			Remote De	vice - nvr-17	_	
🗆 Ali 🛛 🛛 IF	2	Port	Device Name	Protocol Type	Device Type	-
1	72.7.2.69	80	172.7.2.69	Onvif		
2 1	72.7.3.115	80	172.7.3.115	Onvif		
3 1	72.7.56.15	80	172.7.56.15	Onvif		
4 1	72.7.57.154	80	172.7.57.154	Onvif		
5 1	72.7.58.32	80	172.7.58.32	Onvif		
6 1	72.7.57.133	37777	172.7.57.133	Private	IPC-HFW4421D)-AS
7 1	72.7.56.110	37777	172.7.56.110	Private	IPC-HF8530E	
8 1	72.7.56.120	37777	172.7.56.120	Private	DVR	
			1			
	IP	Port	Device Name	Remote Channel		Device Type
1	IP 172.7.57.147	37147	Device Name	Remote Channel	Private	Device Type
Local Channel 1 2	172.7.57.147 172.7.57.9	37147 37777	Device Name		Private Private	Device Type
□ 1	172.7.57.147	37147 37777	Device Name	1	Private	Device Type

Figure 17-3

Click Device Search, system will show devices that are within the same network segment as this device. For the searched device, click Add to auto add remote device.

Click Manual Add, system pops up add box of remote device, see Figure 17-4. Enter corresponding parameter, and click OK to manually add.



Figure 17-4

17.1.3 Encode Setup

User may set device A/V stream, snapshot stream and video overlay.

17.1.3.1 A/V Stream

See Figure 17-5.

		Encode - 20.2.33.19(IPC-19)		×
Audio/Video	Main Stream		Extra Stream	
Snapshot	Stream Type	General ▼	✓ Video Setup	
Overlay	Encode Type Resolution	H.264 V 1080P V	Encode Type Resolution	H.264 V CIF V
	FPS	25	FPS	25
	StreamCtrl	BRC VBR	StreamCtrl	BRC VBR
	Quality	Good	Quality	Good 🗸
	Bit Stream	8192Kbps	Bit Stream	512Kbps
	Ref Stream	1024kbps-8192kbps	Ref Stream	56kbps-1024kbps
	lframes	50 (1-150)	lframes	50 (1-150)
	Audio Setup		Audio Setup	
	Encode Mode	G.711A	Encode Mode	G.711A
	Vatermark			
	Characters	DigitalCCTV		
			Apply	Save Cancel

Figure 17-5

Parameter	Note
Stream Type	Include general, motion detection and alarm. Select different steams for different record events.
Encode Type	Auto get audio encode mode from device.
Resolution	Include multiple resolutions, each has different reference streams.
FPS	PAL: 1 \sim 25 fps, NTSC: 1 \sim 30 fps.
Stream Control	CBR and VBR.
Bit Stream	Under VBR mode, this value is upper limit; under CBR mode, this value is fixed.

Parameter	Note
Reference Stream	According to selected encode mode, resolution to dynamically display stream (range).
I Frames	Time interval between key frames.
Audio Setup	Select this frame, then enable audio setup.
Encode Mode	Device audio encode method.
Watermark	Select this parameter, then enable watermark function.
Watermark Characte r	Via watermark character, user may see whether the video has been tampered. Enable option for watermark.

17.1.3.2 Snapshot Stream

See Figure 17-6.

Audio/Video	Snap Mode	Regular
Snapshot	Size Quality	1080P V Better V
Overlay	Snap Interval	1 (S/Sheet)

Figure 17-6

Parameter	Note
Snap Mode	 Available parameter: Regular: in snapshot plan, snapshot within set time range. Motion Detect: snapshot when motion is detected. Alarm: snapshot when alarms.
Size	Identical with main stream resolution.
Quality	Set quality of snapshot.
Snap Speed	Set frequency of snapshot.

17.1.3.3 Video Overlay

See Figure 17-7.

	Er	ncode - 20.2.33.19(IPC-19)	x
Audio/Video	Channel Name IPC		
Snapshot		2 <mark>016-06-04 15:46:42</mark> 2016-14-14 19:46:42	Region Overlay × +
Overlay			Network Monitor
			Channel Display
			✓ Time Display Y/M/D
			Y/M/D 24-H
	IFC		
	IPC		
		Ap	ply Save Cancel

Figure 17-7

Parameter	Note
Channel Name	Set channel name.
Region Overlay	 Shield video of specific area in live preview window. Available parameters: Local preview: shield specific region video in local preview video. Network monitor: shield specific region video in network monitor. Select "local preview" or "network monitor", and click , to configure shielded region.
Channel Display	If you select this parameter, then it will show channel name in video such as monitor window.
Time Display	If you select this parameter, then it shows time info in video monitor such as window.

17.1.4 Image Setup

User may set video's color mode, HUE, brightness, contrast and saturation. See Figure 17-8.

Image - 20.2.33.19(IPC-19)	_	_	×
2016-06-04 00:47:10	Color Mode	Standard 0	Gentle Flamboyant
	Hue	0	• 50
	Brightness	0	• 50
	Contrast	0(• 50
	Saturation	0	• 50
	Flip	No Flip	V
IFC			
	A	pply Sav	re Cancel

Figure 17-8

Parameter	Note
Color Mode	Set color mode.
HUE	Adjust color HUE.
Brightness	Adjust overall color brightness. The higher the value, the higher the brightness will be. If you increase image brightness, the entire video will be affected including both dark and bright areas.
Contrast	Adjust contrast. The higher the value, the higher the contrast will be.
Saturation	Adjust color depth. The higher the value, the deeper the color will be.
Flip	Viewing angle. User may select among four modes.

17.1.5 **PTZ Config**

See Figure 17-9.

	PTZ Control - 20.2.33	.19(IPC-19)	×
Protocol	PELCOD	v	
Address	1	<u>*</u>	
Baud Rate	2400	•	
Data Bit	8	v	
Stop Bit	1 bit	×	
Parity	None	V	
		Apply Save	Cancel

Figure 17-9

Parameter	Note
Protocol	Select protocol of corresponding model, such as PELCOD.
Address	Set speed dome address.
Baud Rate	Select corresponding speed dome's baud rate, and you control corresponding channel PTZ and camera.
Data Bit	Set corresponding data value.
Stop Bit	Set stop bit.
Parity	Select parity.

17.2 **Event**

17.2.1 Video Detection

Video detection includes video loss, video tampering and motion detect. While:

- Video loss: when a channel loses video, it will prompts video loss via alarm output, alarm upload, screen prompt, and SMS.
- Video tampering: when someone tampers camera or video is not clear due to light issue, video tamper alarm is ON.

Note:

Enable defocus detect: detect defocus video.

• Motion detection: by analyzing video image, when system detects moving signal which has reached preset sensitivity, it enables motion detection alarm.

For example see Figure 17-10 as motion detection.

	Video Detect - 172.7.56.9(1)	×
Video Loss	☑ Enable	
Camera Masking	Arm/Disarm Period Set	
Motion Detect	Sensitivity 3	
	Anti-dither 5 Second(0~600)	
	Zone Set	
	Record Channel 4 1 2 3 4 5 6 7 8 9 10 11 12 ▶	
	Delay Time 10 Second(10~300) Upload To Cloud	
	Alarm Output	
	Delay Time 10 Second(1~300)	
	PTZ Link Set	
	Tour 1 2 3 4 5 6 7 8 9 10 11 12	
	✓ Snapshot	
	Upload To Cloud	
	Show Msg Send Email Alarm Upload Buzzer SMS	
	Apply Save (Cancel

Figure 17-10

Parameter	Note
Enable	If you select this parameter, then user may perform motion detection.
Arm/Disarm Period	Set alarm arm and disarm time. Click setup to pop up arm/disarm period box.
Anti-dither	The anti-dither period only can record one time of motion detection event. Value within $0s{\sim}600s$.
Zone	 Click Set to enter, blue zone is motion detection zone. (center in figure) When exit the interface, you must click OK to save motion detect setup.
Record Channel	If you select this parameter, then user may perform motion detection alarm record to this channel. Meantime you must select auto record in Record>Record Control.

Parameter	Note
Delay Time	When motion detection ends, it will extend for a while before stop.
Upload to Cloud	Check, means to upload record to cloud.
Alarm Output	If you select this parameter, then enable alarm link output port, so it can link corresponding alarm output device when alarm occurs.
Output Deploy	After motion detection alarm ends, alarm extends for a while before stop.
PTZ Link	When motion detection occurs, link PTZ, such as rotate to point X.
	PTZ config event type includes: preset, point tour and pattern.
Tour	If you select this parameter, then enable tour channel function.
Snapshot	If you select this parameter, then config motion detection snapshot function for this channel.
Screen Prompt	If you select this parameter, then when alarm occurs, screen has prompt.
Send EMAIL	If you select this parameter, then when alarm occurs, send mail to user.
Alarm Upload	If you select this parameter, then when alarm occurs, upload alarm.
Buzzer	If you select this parameter, then when alarm occurs, buzzer.
SMS	If you select this parameter, then when alarm occurs, send SMS to user.

17.2.2 Alarm Setup

See Figure 17-11.

		Alarm - 172.7.56.101		×
Alarm Input Enable	1 Al:	arm Alias	-	
Arm/Disarm Period Anti-dither Device Type	Set 5 Second Normal Open	i(0~600)		
Record Channel Record Delay Upload To Cloud		6 7 8 J(10~300)		
Alarm Output Output Delay		6 i(1~300)		
PTZ Link Tour Snapshot Upload To Cloud	Set 1 2 3 4 5 1 2 3 4 5	6 7 8 6 7 8		
Show Msg	Send Email	Alarm Upload	Buzzer	SMS
Copy current configuration to	None 🔽		Apply	Save Cancel

Figure 17-11

Parameter	Note
Alarm Input Enable	If you select this parameter, then it will link to alarm.
Arm/Disarm Period	Set alarm arm and disarm time. Click setup to pop up arm/disarm period box.
Anti-dither	The anti-dither period only can record one time of motion detection event. Value within 0s \sim 600s.
Device Type	Set to NO or NC.
Record Channel	If you select this parameter, then user may perform motion detection alarm record to this channel. Meantime you must select auto record in Record>Record Control.

Parameter	Note
Record Delay	When alarm link ends, it will extend for a while before stop.
Upload to Cloud	Check, means to upload record to cloud.
Alarm Output	If you select this parameter, then enable alarm link output port, so it can link corresponding alarm output device when alarm occurs.
Output Delay	After motion detection alarm ends, alarm extends for a while before stop.
PTZ Link	When alarm link occurs, link PTZ, such as rotate to point X. PTZ config event type includes: preset, point tour and pattern.
Tour	If you select this parameter, then enable tour channel function.
Snapshot	If you select this parameter, then config alarm link snapshot function for this channel.
Video Matrix	If you select this parameter, then enable matrix.
Show Message	If you select this parameter, then when alarm occurs, screen shows message.
Send EMAIL	If you select this parameter, then when alarm occurs, send mail to user.
Alarm Upload	If you select this parameter, then when alarm occurs, upload alarm.
Buzzer	If you select this parameter, then when alarm occurs, buzzer.
SMS	If you select this parameter, then when alarm occurs, send SMS to user.

17.2.3 Abnormality

When an abnormality (i.s. no storage device, capacity warning, storage device error, offline) occurs, by enabling alarm output function, select alarm output channel, set corresponding alarm format, create alarm to notify user. For example no storage device is in Figure 17-12.

		Abnormality - 172.	7.56.101	_	_	×
No Storage Device	Enable					
No Space	Alarm output	1 2 3	4 5 6			
Storage Device Error	Output Delay	10	Second(1~300)			
Offline	☑ Show Msg	Send Email	Alarm Upload	Buzzer	SMS	
IP Conflict						
Mac Conflict						
				Apply	Save Ca	ncel

Figure 17-12

17.2.4 Intelligent Config

SmartPSS supports to add SmartIPC and you may configure added intelligent device, including audio detection config and face detection fig. After config is finished, user may to go Live preview, see Ch. 5.

See Figure 17-13.

	S	mart Config - 172.7.	.57.3(172.7.57.3_1)	_		×
Audio Detect	Anomaly Enable					
Face Detect	Mutation Enable Sensitive Mutation Threold	0	• 51 • 92			
	Arm/Disarm Period Anti-dither	Set 5	Second(0~600)			
	 ✓ Record Channel Record Delay ✓ Alarm Output 	1 300	Second(10~300)			
	Output Delay	10 Set	Second(1~300)			
	Tour TurningSnapshot	1				
	Show Msg	Send Email	Alarm Upload	🗖 Веер	SMS	
				Apply	Save Cance	2

Figure 17-13

Parameter	Note
Anomaly Enable	If you select this parameter, then enable audio detection alarm.
Mutation Enable	User may set sensitivity and threshold. If you select this parameter, enable mutation. sensitivity: 1-100 level adjustable, the smaller the value, then the more input sound volume change needs to exceed continuous environmental volume for being judged as audio abnormality. User shall test and adjust according to actual environment. Mutation threshold: 1-100 level adjustable, used to set filter environment sound intensity. If environmental noise is higher, then you shall set this value higher. User shall test and adjust according to actual environment.

Parameter	Note
Arm/Disarm	Set alarm arm and disarm time.
Period	Click "setup" to pop up "Arm/Disarm Period" box.
Anti-dither	Within one anti-dither period, it only records one time motion detection event. Value within $0s{\sim}100s$.
Record Channel	If you select this parameter, then user may perform motion detection alarm record to this channel. Meantime you must select auto record in Record>Record Control.
Record Delay	When alarm link ends, it will extend for a while before stop.
Alarm Output	If you select this parameter, then enable alarm link output port, so it can link corresponding alarm output device when alarm occurs.
Output Delay	When alarm link ends, alarm extend for a while before stop.
Snapshot	If you select this parameter, then config motion detection snapshot for the channel.
Send EMAIL	If you select this parameter, then when alarm occurs, send mail to user.
Alarm Upload	If you select this parameter, then when alarm occurs, upload alarm.
Buzzer	If you select this parameter, then when alarm occurs, buzzer.
SMS	If you select this parameter, then when alarm occurs, send SMS to user.

For face detection config, see Figure 17-14.

	Smart Config - ipc-239-1(IPC-239)	×
Audio Detect	Enable Face Detect	
Face Detect	Arm/Disarm Period Set Anti-dither Enable Face Enhancemen	
	Record Channel Record Delay Second(10~300)	
	Alarm Output Output Delay PTZ link Set	
	Tour Turning Snapshot Show Msg Send Email Alarm Upload Beep SMS	
	Apply Save Car	icel

Figure 17-14

Parameter	Note
Enable Face Detect	If you select this parameter, then alarm links.
Arm/Disarm Period	Set alarm arm/disarm period. Click Set to pop up arm/disarm box.
Enable Face Enhancement	If you select this parameter, then enable face detection.
Record Channel	If you select this parameter, then user may perform motion detection alarm record to this channel. Meantime you must select auto record in Record>Record Control.
Record Delay	When alarm link ends, it will extend for a while before stop.
Parameter	Note
-----------------	---
Alarm Output	If you select this parameter, then enable alarm link output port, so it can link corresponding alarm output device when alarm occurs.
Output Delay	When alarm link ends, alarm extends for a while before stop.
Snapshot	If you select this parameter, then config motion detection snapshot for the channel.
Send EMAIL	If you select this parameter, then when alarm occurs, send mail to user.
Alarm Upload	If you select this parameter, then when alarm occurs, upload alarm.
Buzzer	If you select this parameter, then when alarm occurs, buzzer.
SMS	If you select this parameter, then when alarm occurs, send SMS to user.

17.3 Record/Storage

17.3.1 Record Setup

Record setup has schedule and record control.

- Schedule: system records at set time period.
- Record control: select record mode.

17.3.1.1 Schedule

User may set corresponding record time, and record during the set period. Example is as below:

- 1) Select Storage>Record. See record setup interface.
- 2) Select Schedule. See Figure 17-15.



Figure 17-15

3) Click 🏶. See Figure 17-16.

Rec Plan					×					
					Regular	Motion	Alarm	MD&Alarm	Smart	
Period1	00:00:00	* —	23:59:59	÷	V		V			
Period2	00:00:00	* —	23:59:59	Å.						
Period3	00:00:00	* —	23:59:59	÷						
Period4	00:00:00	*	23:59:59	Å.						
Period5	00:00:00	* —	23:59:59	÷						
Period6	00:00:00	÷	23:59:59	÷						
SUN	MON	TUE	WED		THU	FRI	SAT	HOLID.	AY	
						C	Save	Cancel		

4) Set period you want to record, select record type, and click OK.

See Figure 17-17.



Figure 17-17

Note:

- Green: normal record.
- Yellow: motion detection triggered record.
- Red: alarm triggered record.
- Blue: motion detection and alarm record.
- Orange: intelligent alarm record.

User may click Apply to copy current config to other channels.

17.3.1.2 Record Control

User may select record mode, see Figure 17-18.

Schedule	Pre-Record	5 S(0~5)
Record Control	Main Stream 🔽	Schedule Manual Stop

Figure 17-18

Parameter	Note
Pre-record	During certain period of time, records are stored in memory. For example, pre-record is 4 seconds, then record in the first 4 seconds are stored in memory and records start from the 5 th second are stored locally.
Main Stream	Set main stream record mode. Available modes are auto, manual and OFF.
Sub Stream	Set sub stream record mode. Available modes are auto, manual and OFF.

17.3.2 Disk Management

User may manage local storage and remote storage.

Local Storage

Store data in local SD card or disk, meantime user may view healthy condition of disk, see Figure 17-19.

_	_	HDD - H	CVR		
Local Storage	Device Name	HDD Operation	Status	Free/Total Space	_
	Disk 1	Set as read-write disk	Normal	1026.26G/1862.88G	
					Cance

Figure 17-19

17.4 System Maintenance

17.4.1 User Management

User may add, modify, delete user group and use. System default user groups include admin and user.

Default users are admin, 888888, and 666666.

To add user:

- 1) Select Maintenance>Account. It shows User interface.
- 2) Select group and click Add.

System pops up Add Group box, see Figure 17-20.

Add Group	×
Group Name	
Memo	
Rights List 📃 Check All	
Ctr Panel	
Shutdown	
Monitor	
Monitor_01	
Monitor_02	
OK Cancel	

Figure 17-20

- 3) Enter user group name, select corresponding right, and click OK.
- 4) Select user, and click Add. See Figure 17-21.

	Add User	×
User Name		Reuseable
Modify Password		
Confirm Password		
Group	admin 🔻	
Memo		
Rights List	Check All	
Ctr Panel		A
Shutdown		
Monitor		
Monitor_01		
Monitor_02		
Monitor 03		
	ОК	Cancel

Figure 17-21

5) Enter corresponding parameter, select right and click OK.

Note:

Username and password in access controller are fixed, which are "123456".

17.4.2 System Maintenance

```
17.4.2.1 Local Setup
```

See Figure 17-22.

Local Setup	Device Name	HCVR
DateTime	Device No	8
	Language	Simp Chinese
RS232	Video Standard	PAL
Auto Maintenance	Pack Duration	60 minute(1~60)
Version	When disk is full	Overwrite



Parameter	Note	
Device Name	Set device name.	
Device No.	Device no. in remote control app. Used to in scene when one remote control controls multiple devices. Only when you press address button on remote control and enter remote control address and device no. are the same with corresponding device before user may operate.	
Language	Show device system language.	
Video Standard	Show video standard of device.	
Pack Duration	Set pack duration of each record file. Default is 60 minutes.	
When disk is full	 Available parameters: Stop, current work disk is overwriting, or current disk is just full, it stops record. Overwrite, when current disk is full, it will overwrite the earliest record file. 	

17.4.2.2 Time Setup

See Figure 17-23.

		Maintenance - HCVR	×
Local Setup	Date Format	YYYY-MM-DD	
DateTime	Time Format	24-H ▼ 2016-06-04 ★ 01:19:21 ★ Sync PC	
RS232	System Time	2016-06-04 🐥 01:19:21 🛓 Sync PC	
Auto Maintenance	DST Enable DST Type	Date Week Week Veek Vee	
Version	Start Time	2000 🗸 Jan 🔽 1 🔽 00:00 👗	
	End Time	2000 🗸 Jan 🔽 1 🔍 00:00 🍝	
	NTP		
	Time Zone	GMT+08:00	
	Port	123 (1-65535)	
	Update Period	60 Minute(0-65535)	
		Apply Save	Cancel

Figure 17-23

Parameter	Note	
Date Format	Select date display format.	
Time Format	Select corresponding time format.	
System Time	Set system time of current device.	
Sync PC	Push SmartPSS PC time to device.	
DST	DST time.	
NTP Server	By setting NTP server, system auto sync time according to server.	

17.4.2.3 Serial Setup

User may set serial information, see Figure 17-24.

		Maintenance - nvr-17	
Local Setup	СОМ	COM1	
DateTime	Function		
	Data Bit	8	
RS232	Stop Bit	1	
Auto Maintenance	Baud Rate	115200	
	Parity	None 🗸	
Version			



Parameter	Note
СОМ	Select COM.
Function	Select corresponding serial control protocol, serial function control protocol have:
	 General, use COM and mini terminal software to upgrade and debug.
	 Control keyboard, via COM use professional keyboard to contol device.
	 Transparent COM, use to connect PC, and send data.
	• Protocol COM, when card no. overlaps, you need to set to this COM.
	 Network keyboard, via Ethernet port use professional keyboard to contol device.
Data Bit	Default is "8".
Stop Bit	Default is "1".
Baud Rate	Select corresponding baud rate length, default is "115200".
Parity	Default is "no parity".

17.4.2.4 Auto Maintenance

User may self-set auto reboot system or auto delete file. Auto reboot system can set scheduled reboot. Auto delete file can customize day to delete file, see Figure 17-25.

Local Setup	Auto Restart	Tuesday 02:00
DateTime	Auto Delete Files	Never
RS232		Restart
Auto Maintenance		
Version		



17.4.2.5 Version

View current device software version and SN.

17.4.2.6 Firmware Upgrade

Upgrade device program.

17.4.3 Link to WEB

User may link device WEB.

18 Statistics

18.1 Statistics

DNA7000(DSS) Manager supports search of server statistics, device statistics, management statistics, operation statistics and user statistics. The detailed steps are skipped here.

Overview

DNA7000(DSS) Manager supports real-time statistics of server and device online status, and supports search for alarm history and channel real-time analytics of server and device.

1) Open Statistics>Overview interface. See Figure 18-1.



Figure 18-1

 Click Details next to Device Real Time Online Statistics or graph below to enter corresponding Statistics>Device>Device Online Statistics tab to view device real time online alarm info.

See Figure 18-2.

🚯 Device Online Statistics 🛛 🚄	Device Alarm Info	el Diagnosis Statistics 🛛 📃 Device	Health Report 📃 Device Auto Regi	stration Report	
٩	Method: Real Time	▼ Type: All	▼ Status: All		Search
DVR-1	≡ List III Chart				🗡 Export
DVR-3	Encode	Status	Device Name	Org	IP/Domain
DVR-4	1000921	Online	DVR-515	root	172.7.57.200
DVR-5	1000920	Online	DVR-514	root	172.7.57.200
DVR-7	1000919	Online	DVR-513	root	172.7.57.200
DVR-8					
DVR-9 DVR-10	1000918	Online	DVR-512	root	172.7.57.200
DVR-10	1000917	Online	DVR-511	root	172.7.57.200
DVR-12	1000916	Online	DVR-510	root	172.7.57.200
DVR-13	1000915	Online	DVR-509	root	172.7.57.200
DVR-14	1000913	Online	DVR-508	root	172.7.57.200
DVR-15	1000912	Online	DVR-507	root	172.7.57.200
DVR-17	1000911	Online	DVR-506	root	172.7.57.200
DVR-18	1000910	Online	DVR-505	root	172.7.57.200
DVR-19					
	1000908	Online	DVR-504	root	172.7.57.200
DVR-22	1000907	Online	DVR-503	root	172.7.57.200
DVR-23	1000906	Online	DVR-502	root	172.7.57.200
DVR-24	1000905	Online	DVR-501	root	172.7.57.200
	1000904	Online	DVR-500	root	172.7.57.200
DVR-26	1000903	Online	DVR-499	root	172,7,57,200
DVR-28	1000902	Online	DVR-498	root	172.7.57.200
DVR-29					
DVR-30	1000901	Online	DVR-497	root	172.7.57.200
DVR-31	1000900	Online	DVR-496	root	172.7.57.200

Figure 18-2

3) Click Statistics Type on the bottom in Overview interface. You will see Figure 18-3.

Statistics Type	×
Alarm Input Channel	
External Alarm	
Host Alarm	
Fire	
Zone Disarm	
Low Voltage	
City Power Interrupt Alarm	
Door Sensor	
IR IR	
Gas Sensor	
Smoke Sensor	
Urgency Button	
Stolen Alarm	
Perimeter	
Preventer Move	
Video Channel	
Video Loss	
Motion Detect	
Tampering	
Channel Disconnected	
Audio Abnormal	
Device	
✓ Disk Full	
Disk Error	
OK Cance	9

Figure 18-3

- 4) Check designated type and click OK.
- 5) Enter start time and end time. Click Search to search corresponding type info.

18.2 Server Management

DNA7000(DSS) Manager provides server management. Server management has center unit and distribution unit.

- Center
- > Dual hot spare not added
- Open General>Server>Center Unit. User may see operation status of center unit host. See Figure 18-4.

Org Acc	ver Cyce Server	_	_	_	_	_
	Name	IP Address	Video Unit Status	Picture Unit Status	Encode	Operation
	Center Server	172.7.56.189	Type:Home Server Running Status: 🍑 Running Enable Status: 🍑 Enable	Type:Home Server Running Status: 🍑 Running Enable Status: 🌒 Enable	master	/ 0

Figure 18-4

2) Click D, user may view name, server type, IP and status of center unit, video unit and picture unit in main server center unit. See Figure 18-5.

	Name	IP Address	Video Unit Status	Picture Unit Status	Encode	Operation	
			Type:Home Server	Type:Home Server			
-			Running Status: 📥 Running	Running Status: 🔶 Running			
enter Unit					Status		
	PES(8001)		PES		Online		
	MGW(16001)		MGW		Online		
	SCS(18001)		SCS		Online		
	ADP(15001)		ADP		🥚 Online		
	VMS(4001)		VMS		Online		
ASC(10001) APP_SS(14001)			ASC APP_SS				
	APP_MATRIX(9001)		APP_MATRIX		Online		
	APP_SMS(13001)		APP_SMS		Online		
	APP_MAIL(12001)		APP_MAIL		Online		
	ADS(11001)		ADS(Alarm Dispatch Service)		Online		
	EAS(18101)		EAS		Online		
	SS(1001)		SS(Storage Service)		Online		
	MTS(2001)		MTS(Medium Transfer Service)		Online		
	DMS(3001)		DMS(Device Management Service)	Online		
	MCDALARM(19001)		MCD_ALARM		Online		
	MCDGATE(21001)		MCD_GATE		Online		
	MCDLED(22001)		MCD_LED		Online		
	MCDDOOR(20001)		MCD_DOOR		Online		

Figure 18-5

Dual hot spare added

Click open General>Server Config>Center Unit interface, user may view center unit and spare operation status of center unit. See Figure 18-6.

 tatistics 📃 Server Alarm Info 📃 Al	I Servers					
Name	IP Address	Dual Device Status	Video Unit Status	Picture Unit Status	Encode	Operation
		Type Host Active Status: © Active Power Status © Normal Beat Network Statu® Normal Database Status © Connected	Type Home Server Running Status: (# Running Enable Status: (@ Enable	Type Home Server Running Status: 🔶 Running Enable Status: 🜑 Enable		
	172.7.56.95	Type Backup Active Status 🤪 Abnormal Power Status 🌸 Normal Beat Network Statu 🌸 Normal Database Status 🎱 Abnormal				
					Total 2 record(s) is < 1/1 > 0 G	io to page

Figure 18-6

- Distribution unit
- 1) Open General>Server>Distribution Unit interface, user may view operation status of master/slave mode server. See Figure 18-7.

Reserved Ag Decision from							
 Keyword:	Q, Search						
	Name	IP Address	Video Unit Status	Picture Unit Status	Encode	Operation	
			Type:Home Server	Type:Home Server			
	172.7.56.52	172.7.56.52	Running Status: 🔯 Running	Running Status: 🐞 Running	1D027DEPAA00062	/×0	
			Enable Status: 🥔 Enable	Enable Status: 🥔 Enable			
					Total 1 record(s) s < 1/1 >) Go to	page GO	



- 2) Click or s, user may edit or delete distribution unit.
- Click . user may enter initalization interface.
- 3) Click D, user may view video server name, server type and IP status. See Figure 18-8.

Keyword:	Q Search					
	Name	IP Address	Video Unit Status	Picture Unit Status	Encode	Operation
	PCP5(6002)		PCPS		Online	
	ARS(5002)		ARS(Active Register Service)		Online	
	MCDALARM(19002)		MCD_ALARM		Online	
	MCDDOOR(20002)		MCD_DOOR		Online	
	MTS(2002)		MTS(Medium Transfer Service)	rvice) 🕑 Online		
	SS(1002)		SS(Storage Service)		Online	
	DMS(3002)		DMS(Device Management Service		Online	
	VQDS(17002)		VQDS		🤪 Online	
Picture Unit	Name		Service Type		Status	



18.3 Video Quality Analytics

DNA7000(DSS) platform supports video quality analytics, first please set video analytics, analytics task, analytics scheme on Manager, and then user may view result of analytics on Client.

- 1) Login DNA7000(DSS) Manager.
- 2) Select Business>Video Analytics.
- > Analytics item config: used to config video analytics.
- > Task config: used to config video analytics task.
- Scheme config: used to config video analytics scheme template.

18.3.1 Config Analytics Item

- 1) Select Video Analytics>Video Analytics.
- 2) Click + Add . System pops up Add Analytics Item Config box.
- 3) Configure name and select analytics item, see Figure 18-9.



Figure 18-9

4) Click OK. The added analytics item is shown in Analytics Config interface. User may modify and delete existing analytics item.

18.3.2 Configure Analytics Task

Task Config			_
sic Info Task Name:task1 Diagnosis Config: 11 Memo:	•	Stay Time:10	(5-15)Sec*
Alternate Channel	Q 	Selected Channel	Device Name
V • DVR-1_1 • DVR-1_2 • DVR-1_3 • DVR-1_3 • DVR-1_4 • DVR-2_1 • DVR-2_1 • DVR-2_1 • DVR-2_2 • DVR-2_4 • DVR-1_9 • DVR-1_10 • DVR-1_11 • DVR-1_12 • DVR-1_13 • DVR-1_15 • DVR-1_16 • DVR-1_17 • DVR-1_18	Add Dele		172.7.55.159 DVR-1 rd(s) 1/1

1) Select Video Analytics Config>Task Config.

Figure 18-10

3) Configure task name, single channel analytics overtime, analytics item config and etc.

Note:

Single channel analytics overtime: analytics of each channel required time.

4) Check alternate channel, and click Add to add channel below selected channel.

5) Click OK.

Configured task is shown in task config list. User may view, modify and delete added task.

18.3.3 Config Analytics Scheme

- 1) Select Video Analytics Config>Scheme Config.
- 2) Click + Add . System pops up Add Scheme Config box.
- 3) Configure scheme name and check Enable.
- 4) Under alternate task box, select alternate task, and click Add to add task to selected task.

Note:

The system supports multiple task.

5) Configure task's start time, see Figure 18-11.

Add Scheme Config				×
General Scheme Name: Memo:	 * Enable			4
Scheme Info Alternate Task task1	Selected Task Task Name Task1	Task Conflict Delay Start Time 14:37:00 (C)	Task Name:task1 Diagnosis Config:11 Stay Time:10Sec Channel Name D 1 1 DVR-1_1	evice Name 72.7.55.159 DVR-1 1/1
			ок	Cancel

6) Click OK. Configured scheme will be shown under scheme config list, user may modify and delete added scheme.

18.3.4 View Video Diagnosis Result

1) Login DNA7000(DSS) Client.



2) Click in Extension area. System shows Video Analytics>Abnormal Analytics interface, see Figure 18-12.

DSS Digital Surveillance System Homepage	? = - = ×
Abnormality Analysis Diagnosis Results	
Latest Video Quality Diagnosis Abnormality Graph (Select a statistics object in the device tree on the right pane) Channel Abnormal Times(times)	Input contents Q
I H.Brightness L.Brightness Color Shift Contrast Definition Video Loss	
Filter abnormal of current organization Key Word: TypeAl TypeAl Filter	
Diagnosis Item Channel Name Device Name	

Figure 18-12

3) Click Diagnosis Result tab, user may view all video analytics content.

See Figure 18-13.

DSS Digital Surveillance S Abnormality Analysi		Homepage Video D	-	-		_	? 🚊	- = ×
Display 🔽 All	H.Brig	htness 🔽 🔳 L.Brigh	 				Input contents	٩
Key Word:	Display	y Type:All Time	Action Status:	bnormal ၇ (Jnknown	Filter Device Offline Operation		
Chinitalite	Domaine	Time	 	•		operadon		

Figure 18-13

- > Click 💁: view channel analytics history.
- > Click 🖸: view channel live preview.
- > Click 🗔: palyback channel record.

19 Other DNA7000(DSS) Manager Operations

19.1 Cascade

DNA7000(DSS) Manager supports cascading configuration. User may set Domain, Domain Service of other zones. After cascading, user may manager lower organization and device.

Before configuring cascading, you must obtain the IP address and port where lower-level CMS server is installed, and IP address and port where WEB server is installed.

- 1) Select Cascade>Domain. System displays Domain interface.
- 2) Click + Add. System pops up Add Domain box, see Figure 19-1.

Add Domain			×
Basic Info			
Name:		*	
SN:			
Memo:			
CMS(Central Manage	ement Service)	Port:9000 *	
IP Address.	+	POIL 9000	
Username:	*	Password: *	
PCS(Picture Control S	ervice)		
IP Address:	*	Port:9001 *	
WEB(Web Service)			
IP Address:	*	Port:80 *	
		ОК	Cancel

Figure 19-1

- Input Name, CMS IP address, CMS port, CMS username, CMS password, WEB IP address, WEB port.
- 4) Click OK. After configuration, select General>Org. Here user may view added domain or device info. User may select Cascade>Domain Service to view online status of domain.

19.2 System Config

19.2.1 Upload

DNA7000(DSS) supports uploading file to CMS.

- 1) Select System>Upload. System displays Upload interface.
- 2) Click + Add . System pops up Upload File box, see Figure 19-2.

Upload File		×
File Name:	Browse	
	Import	Cancel



- 3) Click Browse to select file to upload.
- 4) Click Import to upload selected file.

19.2.2 Backup and Restore

DNA7000(DSS) supports config info backup to local PC, and restoration of the backup file.

Note:

Only system user can backup and restore.

19.2.2.1 System Backup

System backup detailed step:

1) Select System>Backup Restore, see Figure 19-3.



Figure 19-3

- 2) Check info to backup. For example, Org, Account.
- 3) Click on Backup.
- 4) Click on Save, system pops up Save as box.
- 5) Select storage path and click on Save. System prompt when downloading is complete.
- 6) Click on Close.

19.2.2.2 Restore

User may select backup file to restore system.

- 1) Select System>Backup Restore.
- 2) Click on Browse in Restore area.
- 3) Select backup file.
- 4) Click on Restore.
- 5) Input password user "system".
- 6) Click on OK.
- 7) System will restore, and system need to be rebooted.

19.2.3Resource Re-Config

User may re-configure DNA7000(DSS) server resource and parameter.

19.2.3.1 Video Server

- 1) Select System>Resource Re-Config.
- 2) Click Video Server.
- 3) Drag device on the left into server. See Figure 19-4.

	Q	III Auto Allocation	🗅 Restore	Device Name: Q
oot		Center Server		
DVR-1		Device 517		
DVR-2		172.7.55.159		
DVR-3		DVR-1		
DVR-4 DVR-5		DVR-2		
DVR-5				
DVR-0		DVR-3		
DVR-8		DVR-4		
DVR-9		DVR-5		
DVR-10		DVR-6		
DVR-11		DVR-7		
DVR-12				
DVR-13		DVR-8		
DVR-14		DVR-9		
DVR-15 DVR-16		🔛 DVR-10		
DVR-10		DVR-11		
DVR-18		DVR-12		
DVR-19				
DVR-20		DVR-13		
DVR-21		🔜 DVR-14		
DVR-22		🔛 DVR-15		
DVR-23		DVR-16		
DVR-24 DVR-25		DVR-17		
DVR-26		DVR-18		
DVR-27				
DVR-28		DVR-19		
DVR-29		DVR-20		
DVR-30		DVR-21	¥	



- Auto Allocation
 : User may select one device, and click Auto Allocation so system
 will automatically allocate device to one server.
- Restore: User may restore previous operation.
- C:Enter device name, click Search to search device.

19.2.3.2 Parameter Re-Config

User may modify device username, password and organization together.

- 1) Select System Config>Resource Re-Config.
- 2) Click Parameter Re-Config.
- 3) In device list on the left, check device.

User may select more than one device at the same time, and all of checked device will be shown in the area at device to be batch modified.

- 4) Check Modify username password, to batch modify device username and password.
- 5) Check Re-config organization to batch modify device organization.

6) Click Save.

20 WEB Client

DNA7000(DSS) supports B/S format client. Via login WEB Manager, user may set local config, preview, playback, TV wall and E-map.

20.1 Login WEB

To log in WEB:

1) In Internet Explorer, input IP address of DNA7000(DSS), and press Enter. System shows login interface as in Figure 20-1.

DSS Digital Surveillance System	
	Username
	Password
	User Type Admin 🔻
	Remember
DSS	Login
Comprehensively enhanced shining new security platform	
Download: For Computer: 📲 🧟 For Cell Phone:	· • •

Figure 20-1

- 2) Click C, system prompts to download Plugin.exe.
- 3) Download and install Plugin.exe.
- 4) In Internet Explorer, input IP address of DNA7000(DSS), and press Enter.
- 5) In login interface, input username and password. Select user type as Operator.
- 6) Click Login. See Figure 20-2.



Figure 20-2

20.2 Setup

Please refer to Ch. 2.2.3.

20.3 Video Monitor

20.3.1 Preview

Please refer to Ch. 5.

20.3.2 Playback

Please refer to Ch. 6.

20.3.3 TV Wall

Please refer to Ch. 9.

20.4 **Map**

Please refer to Ch. 7.

Note:

- > This manual is 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 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 service engineer for more information.
- www.dantesecurity.net
- support@dantesecurity.net