DSS Professional Quick Start Guide

Ver: 7.00.000



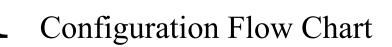


Content

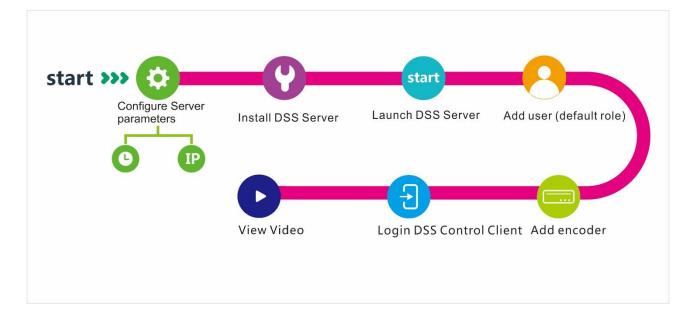
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Configuration flow chart as fellow:





2 Pre-installation Preparation

2.1 Configure the IP address of sever

Step 1. Use Gigabit cable to connect to server and switch

Step 2. Click the "start" button, Select the "Network", as shown in Figure 2-1

Command Prompt	
Wireshark •	Administrator
🜔 Internet Explorer 🔹 🕨	Documents
DSS Server	Computer
iSCSI Initiator	Network
SCH Indiator	Control Panel
	Devices and Printers
	Administrative Tools
	Help and Support
	Run
All Programs	Windows Security
Search programs and files	Log off
🌆 🛃 🏹	

Figure2-1 Select the "Network"

Step 3. Select the "Change adapter settings" on the pop-up page, as shown in Figure 2-2



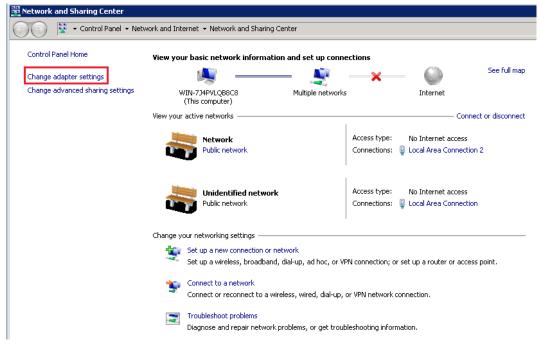


Figure 2-2 Select "Change adapter settings"

Step 4. Set the IP information(TCP/IPv4) on the pop-up page shows in Figure 2-3

nternet Protocol Version 4 (TCP/IPv4) Properties 🛛 🛛 🛛 🔀						
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
C Obtain an IP address automatically						
└ Use the following IP address:						
IP address:	172 . 10 . 1 . 44					
Subnet mask:	255.255.0.0					
Default gateway:	172.10.0.1					
C Obtain DNS server address autor	natically					
$\frown^{igodoldsymbol{\Theta}}$ Use the following DNS server add	resses:					
Preferred DNS server:	10 . 33 . 10 . 44					
Alternate DNS server:	· · ·					
Validate settings upon exit	Advanced					
	OK Cancel					

Figure 2-3 Config the IP

2.2 Configure the system time of server

Step 1. Click the "time display" on the bottom right of the desktop, the pop-up page shows in Figure 2-4



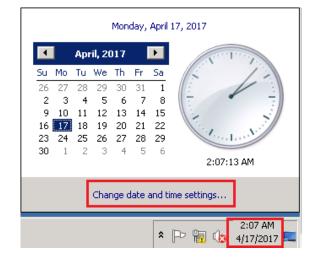


Figure 2-4 Set the system time

Step 2. Click "Change date and time settings", the pop-up page shows in figure 2-5. Click "Change time zone" to change the time zone.

📸 Date and Time		×			
Date and Time Additional Clocks Internet Time					
M T	late: Aonday, April 17, 2017 ime: :11:28 AM 😵 Change date ar	nd time			
Time zone					
(UTC-08:00) Pacific Time (US	S& Canada)				
	Change time zo	one			
Daylight Saving Time ends on Sunday, November 05, 2017 at 2:00 AM. The clock is set to go back 1 hour at that time.					
Notify me when the clock changes					
<u>Get more time zone information online</u> <u>How do I set the clock and time zone?</u>					
	OK Cancel	Apply			

Figure 2-5 Change the time zone

Step 3. Choose the time zone and set "Automatically adjust clock for Daylight Saving Time". As shown in Figure 2-6



📸 Time Zone Settings	×
Set the time zone:	
Time zone:	
(UTC-08:00) Pacific Time (US & Canada)	
Automatically adjust clock for Daylight Saving Time	
Current date and time: Monday, April 17, 2017, 2:16 A	м
ОК	Cancel

Figure 2-6 Set the time zone

Step 4. Click OK to save the setting.

Step 5. Click "Change date and time" in the page show in Figure 2-7.

📸 Date and Time	×				
Date and Time Additional Clocks Internet Time					
	Date: Monday, April 17, 2017 Time: 2:11:28 AM				
Time zone					
(UTC-08:00) Pacific Time	(US & Canada)				
	Change time zone				
Daylight Saving Time end clock is set to go back 1 h I Notify me when the cl <u>Get more time zone infor</u> <u>How do I set the clock an</u>	ock changes nation online				
	OK Cancel Apply				

Figure 2-7 Choose "Change the data and time"

Step 6. Setting time and data, as shown in Figure 2-8

Set the		m <mark>e Sett</mark> nd time			X
Date:		il, 2017 We Th 29 30 5 6 12 13	Fr 31 7	► Sa 1 8 15	Time:
	18 24 25 1 2	19 20 26 27 3 4	28	22 29 6	2: 17: 38 AM
<u>Chang</u>	<u>e calen</u>	<u>dar setti</u>	ngs		OK Cancel

Figure 2-8 Set time and data

Step 7. Click OK to save the setting of data and time.





Install & Start DSS Professional

3.1 Hardware Requirement of DSS Sever

Hardware requirement as follow:

Hardware requirement of DSS Server			
	CPU:		
	E5-2640 v3@2.60GHz 2.60GHz 8core		
Recommend	RAM: 16GB		
	Ethernet port: 1Gps		
	System Disk: 1TB, 500G free for DSS.		
	CPU:		
	E3-1220 v5 @3.00GHz 3.00GHz 4core		
Low-end	RAM: 8GB		
	Ethernet port: 1Gps		
	System Disk: 1TB, 500G free for DSS.		

3.2 Installation



Step 1. Double click

to enter installation mode, see Figure 3-1.

Note: We can get the version and date of this package from the file name. Please check if the package is you want.

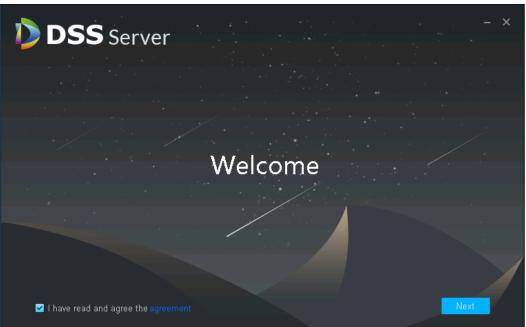


Figure 3-1 Start installation

- Step 2. Check I have read and agree the agreement, click Next.
- Step 3. Select installation path, and you can use the default path, or customize path. After you select path, it will show space required to install and available space in the selected path, see 错误!未找到引用源。.

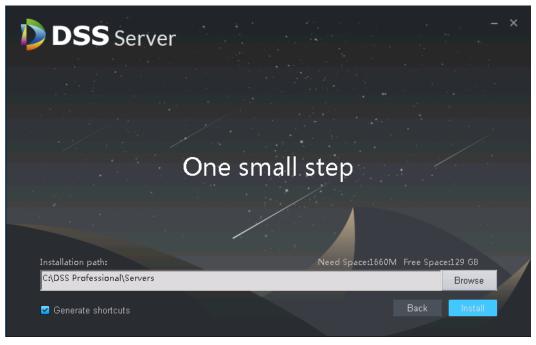


Figure 3-1 Choose the installation path

Note:

- After selecting the appropriate directory, it will show the space required for the installation and the available space for the selected path.
- If "Install" button is grey, please check if installation path is correct, or if space available in installation path is enough.
- Step 4. Customize installation path, click Install to start installation, see 错误!未找到引用源。 and 错误!未找到 引用源。.

	×
<pre>\$Please_select DSS Server install direct:</pre>	
桌面	•
田 🛱 库	
🕀 🚺 Administrator	
□ 🖳 计算机	
🖃 🏭 本地磁盘 (C:)	
🕞 👝 本地磁盘 (0:)	
📔 alarmFic	
📔 Downloads	
i ftproot	_
alk1.7.0_80 🕀 🕕 🕢 🕀	
license 🏭	
📔 tagRecord	
in tmp	-
新建文件夹(M) 确定 取消	

Figure 3-3 Change the installation path





Figure 3-4 Install

Step 5. It shows progress bar of installation and this takes about 3-5 minutes, please wait.

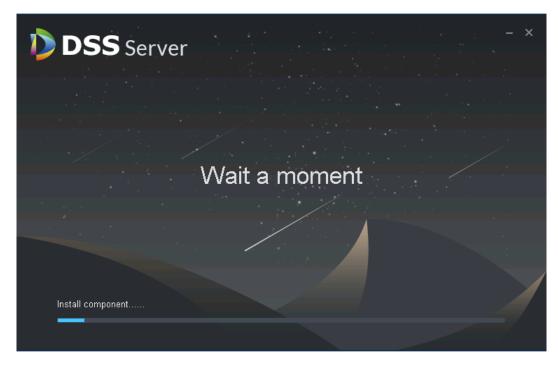


Figure 3-5 Installation progress

Step 6. Installation is complete, click Start New to enable DSS Pro, see Figure 3-6.



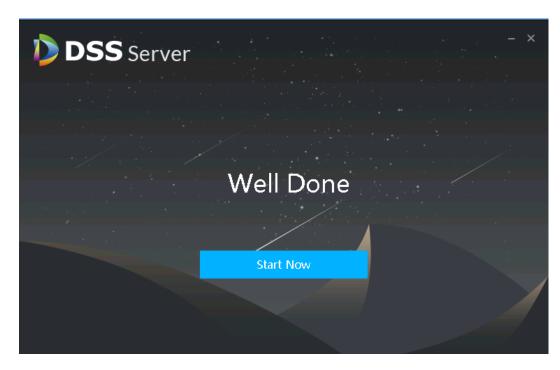


Figure 3-6 Competed installation

Step 7. Click DSS Server shortcut icon 🔊 to check server status which is normally running.





We can quickly add user assign the default role "system" and "Administrator". The operation is as follows:

Step 1. Input the IP address of DSS Server in the browser (IE, Chrome, Firefox) to enter the web manager, see figure 4-1

	DSS PRO Web Manager	
	System User DSS Username	
	Password	
Copyright	1998–2016 Zhejiang Dahua Technology Limited. All Righ	its Reserved.
	= *	
	PC App	

Figure 4-1 Login page

Step 2. Enter username and password, default is system and 123456 respectively. For the homepage pops up after logging in. See Figure 4-2.

Note:

- When logging in with the initial password, a dialogue box for changing the password will pop up. In order to continue logging in, users must change the initial password.
- If it's your first-time logging into the DSS system, then please add this IP to the trust list.

DSS	Home	+			Hi , syster
			2		
D	evice		User and Role	Event	Record Plan
Manually enter connection parameter of a single device, and use this function of device Add device auto found in network, batch add to the system.		d	Add user and authorize user with corresponding system right.	Can add device or system event notice, and corresponding link action of config.	Set record plan of corresponding encode channel.
Add	Device		Add User	Event Config	Record Plan Config
Overview			Authorization		Support
Status:	Online	Offline	Date:2016-12-17. details	s of authorization	DSS Professional User Manual Mobile
Devices:	5	2			Phone User Manual
Users:	1	4	Step 1: Export authorizat	tion request file Export trial request file	FAQ
Services:	8	0	Step 2: Contact sales pe	rson for authorization	
					E-Mail:dss support@dahuatech.com

Figure 4-2 Homepage

> In order to change the password or log out, click username on the right upper corner.

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- Quick entry of commonly used modules are displayed on the interface. To display all functional modules or open a new one, click the
 on the right of the Home button.
- Overview: For displaying the online/offline status of devices, users, services, etc., as well as the occupied space on the hard discs.
- Authorization: To view the authorization details, and purchase the license file by following related procedures if necessary.
- > Help: To view the user guide, operation manual for mobile clients, FAQ files, etc.

Step 3. Click **b** on the homepage, then we can enter the Navigation page, see figure 4-3

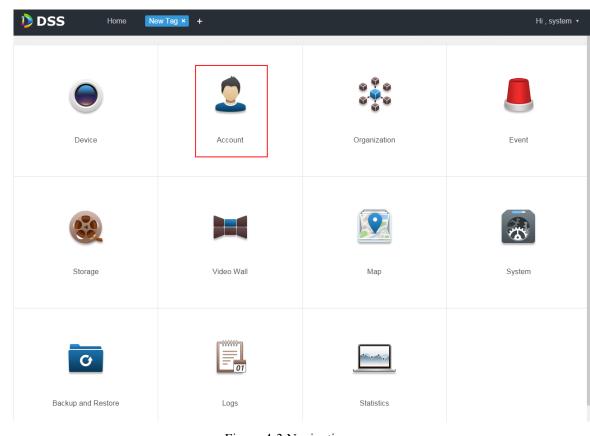


Figure 4-3 Navigation page

Step 4. Click the "User" on the Navigation page, it will go to the following page see figure 4-4

DSS Home	e Accou	1 t × +				Hi , system ▪
🔒 Role	+ Add	🛱 Delete 🛃	Import Domain User		(Q, Search
🙎 User		Username	Role	Status	User Type	Operation
		Is	Is	Offline	System User	£ ∕ ×
		SC	Administrator,Operator,xx,xv,12	Offline	System User	£ ∕ ×
		tt	tt	Offline	System User	£ ∕ ×
		test	test	Offline	System User	£° ∕ ×
		rft	Administrator,Operator,xx	Offline	System User	£ ≥ ×

Figure 4-4 User page

Step 5. Click + Add . An "Add User" dialogue box will pop up.

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Step 6. Configure "User Name", "Password", "Confirm Password", "Expiry(Days)", "Email Address", "PTZ Control Permission" and so on. Check the roles below, then device rights and control rights of the corresponding roles will display on the right. The system will display the interface as shown in Figure 4-5



d User							×
Base Info							
	User Name:	* sds		Password Expiry(Days):			
	Password:	* ******		Email Address:			
Cor	nfirm Password:	* ******		PTZ Control Permission:	* 5		
	MAC Address:			Memo:			
Roles			Device R	ights	Cor	ntrol Rights	
	Rolena	me	Q, sea	rch		All Rights	
	Administr	ator	₄ 🛄 root			 Contol 	
	Operat	or		NewGroup 1		Record PTZ	
				37777		Talk	
			► E	37778		Snapshot	
			►E	37779		Record Lock	
			► E	∃ 1		Record Tips	

Figure 4-5 Add User

Note

- If no role is selected, then the user has no "Device Rights" or "Control Rights".
- You can select multiple roles at a time.

Step 4. Click "OK" to add the user.

Click to freeze the user, then the user will be signed out from the client. Click to change user information other than username/password.

Click \times to delete the user.



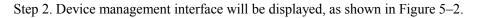
5 Add Encoder

5.1 Add Manually

Before using various functions of the Client, add organizations and devices from the Manager. Enter IP address of the DSS platform in IE address bar, to login to the DSS Manager. Detailed steps to be followed:

Step 1. Click **t** on the right side of the "Home" button. All functional blocks will be displayed on the interface, as shown in Figure 5–1.

DSS Home Ne	w Tag × +		Hi , system 🔻
Device	Account	Organization	Event
Storage	Video Wall	Мар	System
Backup and Restore	Logs	Statistics	
	Figure 5–1 Na		
	Step	2. Click "Device".	





	SS	Home Device :	× +					Hi, s	system •
Add	🖉 Refresh						🌒 Device Net	twork	Pack Up
		IP Address +		Ту	rpe ¢		Port		
]		172.10.1.30		C	WR		37777		
ו		172.10.1.34		Ν	IVR		37734		
		172.10.1.40		Unł	nown		37777		
]		172.10.1.62		Ν	IVD		37777		
	_								
Add	💼 Delete Encoder Decoder						Q Search		
		IP Address +	Device Name 🔹	Туре +	Org	Status +	Q Search	Öp	peration
	Encoder Decoder	IP Address • 172.10.3.102	Device Name + MDVR102	Type + MDVR	Org root	Status • • Offline		Op	peration
	Encoder Decoder Encode						Offline Cause	Op	
ai i	Encoder Decoder Encode 1000010	172.10.3.102	MDVR102	MDVR	root	 Offline 	Offline Cause Main connection failed.	Op	/ ×
	Encoder Decoder Encode 1000010 1000005	172.10.3.102 172.10.1.123	MDVR102 172.10.1.123	MDVR DVR	root	OfflineOffline	Offline Cause Main connection failed. Main connection failed.	Op	/ × / ×

Figure 5-2 Device

Step 3. Click + Add .A dialogue box of "Add All" pops up, see Figure 5–3.

Add All	×
1. Login Information.	1.Login Information 2.Device Information
Adding Protocols:	DAHUA 🔻
Manufacturer:	DAHUA •
Add Type:	IP Address •
Device Category:	Encoder •
IP Address:	*
Device Port:	* 37777
Username:	★ admin
Password:	
Org:	root 💌
Video Server:	Center Server 🔹
	Add Cancel

Figure 5-3 Add encoder

Step 4. Select "Adding Protocols", "Manufacturer", "Add Type", "Device Category", "Org" and "Video Server", and input "IP Address", "Device Port" and "Username/Password", then click "Add". System will automatically get the encoder information, as in Figure 12–4.

Add All	×
2. Device Information.	1.Login Information 2.Device Information
Device Name:	*
Device Type:	DVR •
Device SN:	
Video Channel:	* 1
Alarm Input Channel:	
Alarm Output Channel:	
	Back Add More OK

Figure 5-4 Add Encoder

Table 5-1 Add Device Info

Parameter	Note		
	Ways to add devices. Parameters and descriptions:		
	• IP Address: If a device has static a IP, then users can add it by adding the IP.		
	• IP Segment: For a number of devices with successive IPs (for example, 192.168.1.50 to 192.168.1.100), if, excluding IP, all the other parameters (e.g., Device Port, Channel Amount and Org) of these devices are the same, then you can batch adding these devices by entering the start IP and end IP.		
Add Type	• Domain Name: Add device by adding the domain name. As the domain name of a device is unique, you can add a device via adding its domain name when the IP of the device is unknown.		
	• Auto Register: If a device has dynamic IP or it's in LAN, "Auto Register" is needed to add it in the DSS device list. For example, add on-board equipment by auto register.		
	• ONVIF: For device supportive of ONVIF protocol, add the device via ONVIF.		
	Server to which the video belongs.		
Video Server	Click text box to select corresponding center server or distribution unit from the dropdown list.		
Device type	Device types supported by the system include: DVR, IPC, NVS, MDVR, NVR, Sma NVR, MPT300, EVS, Smart IPC, VTT and Thermal Camera.		
Zero Channel Coding	Mix multiple windows into one channel for transmission.		

Step 5. Choose "Device Type" and input "Device Name", "Video Channel", "Alarm Input / Output Channel", etc. Step 6. Click "OK". If you want to continue adding devices, click "Add More".

When adding device completed, the interface is shown as Figure 5–5.

🕂 Ad	+ Add C Search Q Search									
All	Encoder Decoder									
	Encode	IP Address ¢	Device Name 🔹	Type +	Org	Status +	Offline Cause	0	peratio	on
	1000006	5.1.5.1	NVD1	NVD	NewGroup1	Offline	Main connection failed.		/	×
	1000004	1.2.3.1	1	DVR	root	 Offline 	Main connection failed.		ø	×
	1000005		autoDVR	DVR	NewGroup1	Online			ø	×
	1000003	172.10.1.201	37779	DVR	root	Online		÷	ø	×
	1000002	172.10.1.201	37778	DVR	root	Online		\$	di ka	×

Figure 5-5 Adding Completed

5.2 Add Encoder by Auto Search

"Auto Search" can be used to add device when channel of the device is in the same LAN as the platform server. Steps to add Encoder by Auto Search as fellow:

Step 1. Click **Pack Down** in the upper part of "Device Management" interface. System will automatically

search devices. See Figure 5–6 for the search results.

DSS Home Account Device × + Hi, system						Hi , system 🔻		
🕂 Add	🗯 Refresh						🌒 Device Netwo	rk Pack Up 🛦
		IP Address +		Тур	e \$		Port	
		172.10.0.111		Unknown 37777				
		172.10.1.27		EVS 37777				
		172.10.1.30		D∨R 37777				
		172.10.1.33		NVR 37777				
+ Add	💼 Delete						Q. Search	
All	Encoder Decoder							
	Encode	IP Address +	Device Name 🔹	Type +	Org	Status +	Offline Cause	Operation
	1000006	5.1.5.1	NVD1	NVD	NewGroup1	 Offline 	Main connection failed.	/ X
	1000004	1.2.3.1	1	DVR	root	 Offline 	Main connection failed.	∕ ×
	1000005		autoDVR	DVR	NewGroup1	Online		∕ ×

Figure 5-6 Search Results

Step 2. You can reconfigure IP by clicking Device Network, or click **C** Refresh to search devices of IP within the range.

Note:

Devices on the same network segment are to be searched by default.



Step 3. Check devices to be added, and click + Add .A dialogue box "Batch Add" pops up. See Figure 5–7.

Batch Add		×
Org:	root	
Video Server:	Center Server 🔹	
Username:	★ admin	
Password:	•••••	
	ок	Cancel

Figure 5-7 Batch Add

Step 4. Select "Org" and "Video Server" from the dropdown list, and input "Username" and "Password".

Note: "Username" and "Password" are username and password to login to device, default values being both "admin".

Step 5. Click "OK". System will add device into corresponding organization.



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Download and Install the Client

6.1 Hardware Requirement for PC

To install the DSS Client, the PC must meet the requirements as shown in Table 10–1.

Table 6-1 Hardware Requirement for PC

Requirement of DSS Control Client						
	CPU: Intel Core i5, 64 bits 4 Core Processor					
	Memory@8GB					
Recommend	Graphics Card: NVIDIA® GeForce®GT 730					
	Ethernet port@1000Mbps					
	Hard Drive Capacity: 200G free for DSS Control Client					
	CPU: Intel Core i3, 64 bits 4 Core Processor					
	Memory@4GB					
Low-end	Graphics Card: Intel® HD Graphics 4400					
	Ethernet port@1000Mbps					
	Hard Drive Capacity: 100G free for DSS Control Client					

6.2 Installation

Steps to install the DSS Client:

Step 1. Download and install the software.

1. Input IP address of DSS in IE. The login interface of the DSS Manager will be displayed as shown in Figure 6–1.

a hua				
TECHNOLOGY	Dahua	Technology	Со.,	Ltd

Basic User	
DSS Username Password	
Login	

Figure 6–1 Login page

- 2. Click Low to download the C/S Client. System pops up the "File Downloads" dialogue box.
- 3. Click "Save" to download and save the DSS client software on the PC.
- Step 2. Install the client program and check "start now", as shown in Figure 6–2.

	- ×
DSS	
Start now	

Figure 6–2 Installation Finished





Login to DSS Client and "Preview" interface will be displayed by default.

7.1 Organization Operation

Device Tree on the left side counts number of total devices and online devices by category of organization. See Figure 7-1.

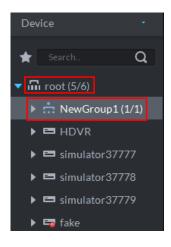
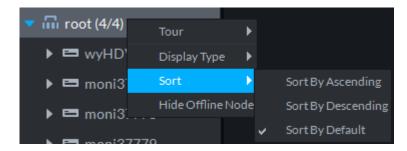
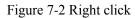


Figure 7-1 Device Tree

Right click Organization, as shown in Figure 7-1.





- Video Tour can be enabled by right-click, with Tour intervals selected from 10s, 30s, 1min, 2min, 5min and 10min.
- > Device Tree is supported to display by name or by IP.
- > Device Tree is supported to display in an ascending, descending, or default order.
- Right click to hide offline node.

7.2 Device Preview

From "Local Config > General", check "Device Tree display model". See Figure 7–3. Then Device Tree in the Preview interface shows devices and channels, as in Figure 7–4.



Local Config					×
🧔 General	General				
🚱 Video	Language Set	English 🔻	(Become activated after restart)		
	Skin Set	DustyBlue 🔻			
Playback	Screen Resolution	1024*768 🔻			
Snapshot	Time Format				
• • •		Enable net time (Same as Dss Plat			
🅋 Record					
🜲 Alarm		Auto Reboot			
🗃 ShortcutKey		Show Last Live1 When Login			
		Self-adaptive Audio Talk Paramet	er		
		Device Tree display model			
	Video				
	Default Window Split				
	Bit Stream Type		 open assist strea 		_
	Play Mode		-		
	RT Playback Time	90s	•		
				Default Save	Cancel

Figure 7-3 Device tree display model

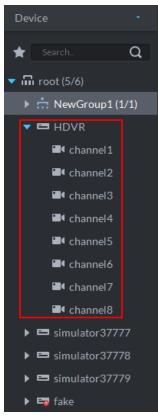


Figure 7-4 Device display type

Right click device, as shown in Figure 7–5.



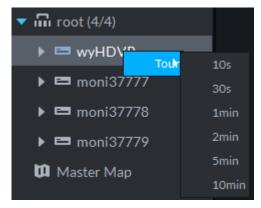


Figure 7-5 Right Click

Video Tour can be enabled here by right-click, with Tour intervals selected from 10s, 30s, 1min, 2min, 5min and 10min.

7.3 Channel Preview

Uncheck "Device Tree display model" from "Local Config > General", then device tree in the preview interface will be displayed by channel. See Figure 7-6.

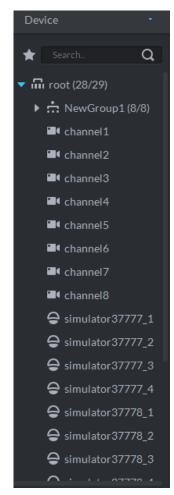


Figure 7-6 Display by Channel

Right click Channel to add it to the favorite.



7.4 Display live Video

~

Step 1. Choose channel from the device list on the left side of the "Preview" interface, and double click, or drag it to video window. If you double click device, then all channels of the device will be opened. Real time monitoring interface is displayed in the video window, as in Figure 7-7.

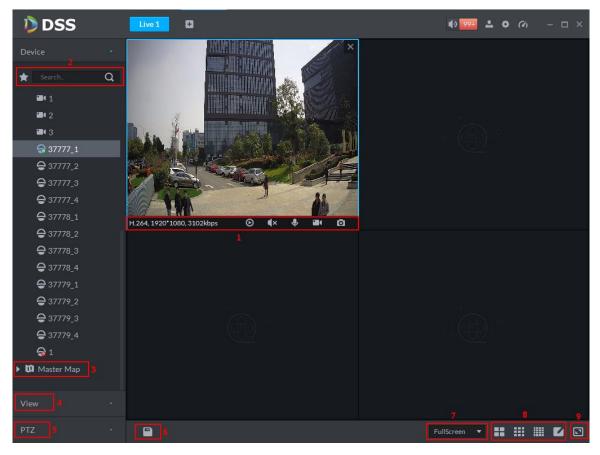


Figure 7-7 Live

Serial Number	Parameter	Note
1	Bit Stream and Quick Start	 Here displays encoding format, bit stream info and quick-start buttons. Description for quick-start buttons: Turn on/off Instant Playback, playback time can be set in "Local Config". There shall be center record or device record for instant playback as precondition, center record be played back with priority. Turn on/off Audio. Turn on/off Device Audio Talk. Check "Self-adaptive Audio Talk Parameters" from "Local Config > General"; when audio talk is on, it will automatically adapt to various parameters without showing a pop-up box. Turn on/off Local Record. Launch Snapshot.
2	Favorite and Device Tree Search	 Search is supported by input device name or channel name in Search. Add, Delete or Rename Favorite. Favorite Tour supported.
3	Map Resource	• Map can be opened in preview window, both GIS map and Raster



Serial Number	Parameter	Note
		map.
4	View	• Live video window can be saved as View. Three-level directory is adopted for view, with level one as root node, level two for group and level three for view. Video Tour is supported from root node and group node, with tour intervals selected from 10s, 30s, 1min, 2min, 5min and 10min. Maximum of 100 views can be created.
5	PTZ	• More info about PTZ of Speed Dome, see "错误!未找到引用源。错误!未找到引用源。".
6		• Live video can be saved as view.
7	Aspect Ratio	• Aspect ratio of the video window, selected from two modes for video play: actual scale and fit in window.
8	Window Split Mode	 Select from modes among 1 to 64 to set window split mode, or click to define split mode.
9	Full Screen	• Switch the video window to "full screen" mode. To exit "full screen", press the Esc key, or right click to select "exit full screen".

Step 2. To configure active video window, right click preview window. See Figure 7–8.

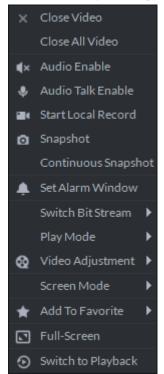


Figure 12–17 Right-click Menu

Parameter	Note
Close Video	• Close active video window.
Close All Videos	• Close all video windows.
Audio Enable	• Same as S , to enable or disable camera audio.
Audio Talk	• Same as \blacksquare , to enable or disable audio talk of corresponding device.
Enable	Check "Self-adaptive Audio Talk Parameters" from "Local Config >
	General"; when audio talk is on, it will automatically adapt to various

Parameter	Note
	parameters without showing a pop-up box.
Start Local	Same as III , to record audio/video of the active video window and save
Record	them in local PC.
Snapshot	• Same as 1 , to save image of the active video window as picture (one
	picture for each snapshot).
Continuous	• To save image of the active video window as picture (three snapshots
Snapshot	each time by default).
Set Alarm Window	• Turn on/off alarm output.
Switch Bit Stream	Switch among "Main stream", "Sub stream" and "Third stream".
	If selecting "Sub stream" or "Third stream", you need to check "enable Sub Stream" and "enable Third Stream" in the "Bit Stream" dropdown
	list when adding encoder from the Manager.
Play Mode	• Switch between the modes of "Real Time Priority", "Fluency
	Priority", "Balance Priority" and custom defined mode.
Video Adjustment	• Perform video adjustment and video enhancement.
Screen Mode	• Three modes supported: Standard mode, 1+3 mode and 1+5 mode.
Fisheye Installation Mode	• Supporting wall mount, in-ceiling mount and ground mount.
Fisheye View	For different fisheye installation modes, there are different views:
	Panoramic View: 360-degree panoramic view
	Double Panoramic View: Two 180-degree panoramic views
	Four Splits: Split the whole window into 4 parts in vertical and horizontal direction, allowing direction adjustment for each part
	separately
	Single Window: only one single window
Add To Favorite	• You can add the active channel or all channels into Favorite.
Full Screen	• Switch the video window to "full screen" mode. To exit "full screen",
	double click video window, or right click to select "exit full screen".
Switch to	• You can switch between live preview interface and playback interface
Playback	quickly, without going back to homepage first.