

DS-9500 Series NVR Quick Operation Guide Version 1.3.1

Verify Contents

Verify that the package contents are correct by checking the items against the packing list.

Note: Please contact your dealer for damaged or missing items.

NVR Pre-Installation

The DS-9500 Series NVR is highly advanced surveillance equipment that should be installed with care. Please take into consideration the following precautionary steps before installation of the NVR.

- 1. Keep all liquids away from the NVR.
- 2. Install the NVR in a well-ventilated and dust-free area.
- 3. Ensure environmental conditions meet factory specifications.
- 4. Install a manufacturer recommended HDD.

NVR Installation

During the installation of the NVR:

- **1.** Use brackets for rack mounting.
- 2. Ensure there is ample room for audio and video cables.
- 3. When installing cables, ensure that the bend radius of the cables are no less than five times than its diameter.
- 4. Connect both the alarm and RS-485 cable.
- 5. Allow at least 2cm (~0.75in) of space between racks mounted devices.
- 6. Ensure the NVR is grounded.
- 7. Environmental temperature should be within the range of $-10 \text{ }^{\circ}\text{C} \sim 55 \text{ }^{\circ}\text{C}$, $14^{\circ}\text{F} \sim 131^{\circ}\text{F}$.
- **8.** Environmental humidity should be within the range of $10\% \sim 90\%$.

Hard Disk Installation

Before installing a hard disk drive (HDD), please make sure the power is disconnected from the NVR. A factory recommended HDD should be used for this installation.

Tools Required: Screwdriver.

- 1. Use the screws to install HDD to its mounting bracket.
- 2. Press the latches on both sides of the front panel of NVR chassis to open it.



3. Inser the HDD bracket to the chassis along the slot unitl it has fully seated into position.



4. Close the front panel of the NVR chassis.

Front Panel

DS-9508NI-S/R Front Panel



No.	N	ame	Description
		Power	Turning red indicates power supply but without system running, turning blue indicates power supply and system running.
	Status	Alarm	Alarm indicator turns red when a sensor alarm is detected.
1	LED Indicators	TX/RX	TX/RX indictor blinks blue when network connection is functioning properly.
		HDD	HDD indicator blinks red when data is being read from or written to HDD.
		Ready	Ready indicator turns blue when NVR is functioning properly.
		Backup	Backup indicator blinks blue when data is being backup.
2	USB Ports		Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
3	Power Button		Powers NVR on/off.
4	Backup Button		Backup video files.
5	Channel Status Indicators		Blue indicates recording, red indicates network connection, purple indicates recording & network connection.

DS-9516NI-S/R Front Panel:



No.	Name		Description			
		Power	Turning red indicates power supply but without system running, turning blue indicates power supply and system running.			
	Status LED	Alarm	Alarm indicator turns red when a sensor alarm is detected.			
1 Indicators		ndicators TX/RX TX/RX indictor blinks blue when network connection is properly.				
	н		HDD indicator blinks red when data is being read from or written to HDD.			
	Rea		Ready indicator turns blue when NVR is functioning properly.			
	Backup		Backup indicator blinks blue when data is being backup.			
2	Backup Button		Backup video files.			
3	USB Ports		Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).			
4	Power Button		Powers NVR on/off.			
5	Channel Indica	Status tors	Blue indicates recording, red indicates network connection, purple indicates recording & network connection.			

Rear Panel

DS-9508NI-S/R Rear Panel:



No.	Item	Description		
1	RESET	Press and hold it for 10 seconds to reset all parameters to factory defaults.		
2	RS-232	Connect to RS-232 devices.		
3	LAN	10/100/1000Mbps Self-adaptive UTP Ethernet interface.		
4	eSATA (optional)	Backup/extended storage interface, connect to external SATA disk,		
		CD-RW, disk array, etc.		
5	RS-485 Matching	Connection of 120-ohm terminator for RS-485 bus. ON=connected;		
	Resistor Switch (SW)	OFF=disconnected.		
	RS-485	Connect to RS-485 devices, e.g., P/T receiver, etc. Use the T+ and T-		
		terminals of RS-485 interface to connect to the R+ and R- terminals of the		
6		receiver.		
	ALARM IN	16 relay alarm inputs		
	ALARM OUT	4 relay alarm outputs		
7	GND	Grounding		
8	POWER	220VAC power supply		

DS-9516NI-S/R Rear Panel:



No.	Item	Description		
1	RESET	Press and hold it for 10 seconds to reset all parameters to factory defaults		
2	RS-232	Connect to RS-232 devices		
3	LAN	10/100/1000Mbps Self-adaptive UTP Ethernet interface.		
4	eSATA (optional)	Backup/extended storage interface, connect to external SATA disk,		
		CD-RW, disk array, etc.		
5	RS-485 Matching	Connection of 120-ohm terminator for RS-485 bus. ON=connected;		
	Resistor Switch (SW)	OFF=disconnected.		
	RS-485	Connect to RS-485 devices, e.g., P/T receiver, etc. Use the T+ and T-		
		terminals of RS-485 interface to connect to the R+ and R- terminals of the		
6		receiver.		
	ALARM IN	16 relay alarm inputs		
	ALARM OUT	4 relay alarm outputs		
7	GND	Grounding		
8	POWER	220VAC power supply		

Note: Currently the RS-485 interface of DS-9500 NVR is reserved for future use.

Connections

Connecting to Alarm Input/Output Device

The alarm input/output interface of the NVR is shown below:



The alarm input is an open/close relay. If the input is not an open/closed relay, follow the connection diagram below:



To connect to an AC/DC load, use the following diagram:



For DC load, JP4 can be used within the limit of 12V/1A safely. If the interface is connected to an AC load, JP4 should be left open. Use an external relay for safety (as shown in the figure above).

Note: An external relay is needed to prevent electric shock when connecting to an AC load.

Alarm Connections:

The device provides the green mating plugs for alarm input and alarm output connectors. Operate the following steps:

- 1. Remove the green mating plug from the ALARM IN or ALARM OUT connector.
- 2. Use the screwdriver to loosen the screw in the plug and then place the wire to the top of screw and finally tighten the screw to secure the wires.
- 3. Insert the plug to its mating slot.

Specifications

DS-9500NI-S:

Model		DS-9508NI-S DS-9516NI-S				
Video/Audio input	IP video input	8-ch 4CIF/4-ch 720P/2-ch UXGA Real Time, or 4-ch UXGA/2-ch 5 Megapixel not Real Time	16-ch 4CIF/8-ch 720P/4-ch UXGA Real Time, or 8-ch UXGA/4-ch 5 Megapixel not Real Time			
	Туре	8 SATA interfaces				
Hard disk	Capacity	Each interface supports up to 2TB capacity				
	Network interface	1,RJ-45, 10/100/1000 Mbps adap	tive Ethernet interface			
External interface	Serial interface	 1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control) 				
	USB interface	2, USB 2.0				
	Alarm in	16				
	Alarm out	4				
	Power supply	100 ~ 240VAC, 6.3A, 50 ~ 60Hz				
	Consumption	\leq 20 W (without hard disk or DVD-R/W)				
	Working temperature	-10°C ~ +55℃				
Others	Working humidity	10% ~ 90%				
	Chassis	19" standard 2U chassis				
	Dimensions (W × D × H)	$450 \times 450 \times 95 \text{ mm}$				
	Weight	$\leq 8 \text{ kg}$ (without hard disk or DVD-R/W)				

DS-9500NI-R:

Model		DS-9508NI-R	DS-9516NI-R			
Video/Audio input	IP video input	8-ch 4CIF/4-ch 720P/2-ch UXGA Real Time, or 4-ch UXGA/2-ch 5 Megapixel not Real Time	16-ch 4CIF/8-ch 720P/4-ch UXGA Real Time, or 8-ch UXGA/4-ch 5 Megapixel not Real Time			
** • • •	Туре	8 SATA interfaces				
Hard disk	Capacity	Each interface supports up to 2TB capacity				
	Array type	RAID 0, RAID 1, RAID 5, RAID	10			
Disk array	Number of array	8				
	Number of virtual disk	8				
	Network interface	1,RJ-45, 10/100/1000 Mbps adaptive Ethernet interface				
External interface	Serial interface	 1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (for PTZ control); 1 RS-485 keyboard interface (for special keyboard control) 				
	USB interface	2, USB 2.0				
	Alarm in	16				
	Alarm out	4				
	Power supply	100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz				
	Consumption	\leq 20 W (without hard disk or DV)	D-R/W)			
	Working temperature	-10°C ~ +55°C				
Others	Working humidity	10% ~ 90%				
	Chassis	19" standard 2U chassis				
	Dimensions ($W \times D \times H$)	$450 \times 450 \times 95 \text{ mm}$				
	Weight	\leq 8 kg (without hard disk or DVD-R/W)				

HDD Storage Calculation Chart

The following chart shows an estimation of storage space used based on recording at one channel for an hour at a fixed bit rate.

Bit Rate	Storage Used
96K	42M
128K	56M
160K	70M
192K	84M
224K	98M
256K	112M
320K	140M
384K	168M
448K	196M
512K	225M
640K	281M
768K	337M
896K	393M
1024K	450M
1280K	562M
1536K	675M
1792K	787M
2048K	900M

Note: Please note that supplied values for storage space used is just for reference. Storage space used is estimated by formulas and may have some deviation from actual value.

Basic Operation

Starting and Shutting Down Your NVR

Startup

Apply power to the unit and the POWER LED indicator on the front panel will light in green, which indicates the unit is powered on.

Note: DS-9500 series NVR do not provide local output, when the POWER and LINK LED indicators light normally, it indicates the unit has been successfully started and connected to network.

Shutdown

Unplug the power cord to shut down the unit. It is not recommended to directly shut down the unit when it is in recording.

Note: It is recommended that an Uninterruptible Power Supply (UPS) be used so as to ensure the unit to work with high stability and security.

Access to DS-9500 by Client Software

Click "Start" \rightarrow "All Programs" \rightarrow "iVMS-4000(v2.0)" to start the client software. After successful login, user can enter the following main interface of the client software.

If the SADP software has been installed on PC, user can use it to automatically search and add the online devices within the same local area network. Click **Online Devices** button on the Add Device interface, and the system will automatically search the online devices.

Device Name		Register Mode	Normal IP
Device IP		Port	8000
Username	admin	Password	****
Channel No.	4	Multicast	12 (s s
DNS Address		Belongs to area	Monitor area
Serial Number			+

The devices found will be listed on the panel with detail information.

Onli	ne Device I	Monitor			>
	Device Type	IP Address	Port	Serial Nu	Serial Number
001	DS_9516	172.6.24.95	8000	DS-9516N-R1620110	DS-9516N-R1620110613BE
002	Unknow	172.6.24.100	8000	DS_B10_0100201010	Firmware Version V1.3.1build 110607
					Subnet Mask 255 . 255 . 255 . 0
					IP Address 172 . 6 . 24 . 95
					Device Port
					Device MAC
					00-40-48-49-9a-ce
					Modify Cancel Save
					Restore DVR's default
<					Select Device Cancel

Select a device from the list and then click the **Select Device** button to add the device.

User can also click the **Modify** button to modify the subnet mask, IP address and device port of the device, and then input the user name and password for login, and finally click **Save** to complete the modification.

Note: If it is required to modify the default gateway, enter the Setup \rightarrow Remote Settings \rightarrow Network Parameters \rightarrow Network Settings to change the settings.

Note: For detailed instructions, please refer to the *User Manual of iVMS 4000 V2.0*.

Access to DS-9500 by IE Browser

Login and Exit

Open IE browser, input the IP address of DS-9500 (e.g., 172.9.1.76) and then click *Enter*. The system will remind you to install the ActiveX control. Click and install the ActiveX control.

The system then will display the login interface as shown in the following figure:



On the top right corner, language is selectable between Chinese and English.

Input the correct user name, password and port, click **Login** to enter preview interface, or it will pop up an error box. The default user name is *admin*, password is *12345*, and port is *8000*.

After login, the following interface will appear:

							English
	Preview	Playback	Log	Config	Exit		Current User : admin
Embedded	I Net DVR	Preview				***	Image: Contrast Image: Contrast
			.	ত পঁতি পঁতি	+ +	⊲ ©	

User can click **Exit** to log off and return to the login interface.

Add Device

Click **Config** → **Remote Config** to enter IP camera configuration menu.

Preview	Playback	Log	Config	Exit	_		Current User : admin
Local Config	IP Camera Information						IP Camera Config
Dumala Casta	Channel No.	IP Address/Domain	IP Camera No.	Port	Online Status	Delete	ir Gamera Comig
Remote Coning	D1	172.9.16.199	1	8000	Online	×	Login mode:
IP Camera	D2	172.8.2.59	2	8000	Offline	×	IP
	D3	172.9.1.96	3	8000	Offline	×	IP Address;
	D4	172.9.1.78	4	8000	Offline	×	172.9.16.199
							Manufacturer:
							Port:
							8000
							UserName :
							admin
							Password :
							Channel No. :
							1
							Modify Rese
							BAID Configuration
					Quick	Add Single Add	e roub conliguration

Refer to the following table for the number of IP cameras which can be added at different resolution:

Model Name IP camera connections					
DS-9508NI-S/R	Up to 8-ch 4CIF or 4-ch 720P or 2-ch UXGA IP cameras				
DS-9516NI-S/R	Up to 16-ch 4CIF or 8-ch 720P or 4-ch UXGA IP cameras				

Quick Adding of IP Camera

This function enables you to add an IP camera quickly. When there are supported IP cameras in the same network segment of a LAN with NVR, you may add it with default user name, password and port number.

Note: Before applying **Quick Add** function, please make sure that IP camera is compatible with NVR and the default user name, password, port number are not changed.

Select a Channel No., and then click Single Add and the online IP cameras will be listed as figure sho	wn below
--	----------

Quick	Add						×
	IP Address	Port	Manufacturer	Mask IP	Version	SerialNo	Channel No
	172.8.40.130	8000	HIKVISION	255.255.255.0	V2.0build 090316	200070689	1
	172.8.40.119	8000	HIKVISION	255.255.255.0	V2.0build 090119	260026210	1
	172.8.40.231	8000	HIKVISION	255.255.255.0	V2.0build 100422	600303778	1
						ОК	Cancel

Select the IP camera from the list to be added and then click **OK** to finish the adding.

Single Adding of IP Camera

This function enables you to add a single IP camera quickly. When there are supported IP cameras in the same network segment of a LAN with NVR, you may add it in one button with default user name, password and port number.

Note: Before applying **Single Add** function, please make sure that IP camera is compatible with NVR and the default user name, password, port number are not changed.

First, select a Channel No., and then click Single Add and the online IP cameras will be listed as figure shown below:

Onlin	e IPC						×
	IP Address	Port	Manufacturer	Mask IP	Version	Serial No	Channel No
1	172.8.40.70	8005	HIKVISION	255.255.255.0	V2.0build 090522	260026182	1
2	172.8.40.119	8000	HIKVISION	255.255.255.0	V2.0build 090119	260026210	1
3	172.8.40.150	8004	HIKVISION	255.255.255.0	V2.0build 090522	260026235	1
4	172.8.40.161	8000	HIKVISION	255.255.255.0	V2.0build 090522	260026251	1
5	172.8.40.152	8000	HIKVISION	255.255.255.0	V2.0build 090522	260026225	1
6	172.8.40.171	8000	HIKVISION	255.255.255.0	V2.0build 100520	400613419	1
7	172.8.40.130	8000	HIKVISION	255.255.255.0	V2.0build 090316	200070689	1
						Select	Cancle

Select one IP camera from the list and click Select to finish the adding.

Then you can change IP address, sub mask or user name, password in the menu on the right, and click **Modify** to confirm.

Manual Adding of IP Camera

First select a Channel No. to enable IP camera Config menu shown on the right.

Input the IP address, port, user name and password, click **Modify** to finish adding an IP camera that will be listed in the IP Camera Information area.

IP Camera Information						IP Camera Config
Channel No.	IP Address/Domain	IP Camera No.	Port	Online Status	Delete	Login mode:
D1	172.9.16.199	1	8000	Online	×	Login mode.
D2	172.9.1.96	1	8000	Offline	×	IP
D3	172.9.1.95	1	8000	Offline	×	IP Address:
D4	172.9.1.97	1	8000	Offline	×	172.9.16.199
						Manufacturer:
						HIKVISION
						Port:
						8000
						UserName :
						admin
						Password :
						•••••
						Channel No. :
						1
						Modify Reset
				_		RAID Configuration
				Quick	Add Single Add	Parameters Configurat

Preview

After login, the preview interface will display:

Previe	Playback	Log	Config	Exit		Current User : admin
 Embedded Net DVR PCamera 01 PCamera 02 PCamera 03 PCamera 04 PCamera 04 PCamera 05 PCamera 05 PCamera 06 PCamera 07 PCamera 08 PCamera 08 PCamera 08 PCamera 09 PCamera 10 PCamera 11 PCamera 12 PCamera 13 	Preview	06-03-2010 T	hu 14:13:34	IPCanera Ø	1	Image: state stat
		Li 🖸 🦚	14 10 🕂 🖃			

When live preview, the windows division can be selected by click the button on play control area. It can support 1 and 4 windows division. The change between different windows division modes will not stop the current preview; and the window still can be operated.

Preview by channel:

After having selected window division mode, click one window, and click on channel list to preview the current channel. If preview successful, the icon will become

Embedded Net DVR	Preview	
IPCamera 01	a second the second second	26-01-2016 The 14122-24
🗈 💿 IPCamera 02	division into received	COMPLETE THE RELEASE
💽 💿 IPCamera 03	U 1054 27 30 F CB 072	the second second second second
🔝 💿 IPCamera 04	a U OCH 27.28 P. 150	Statement of the local division of the
匪 💿 IPCamera 05	Us - eller Tape : A	Statement and a second second
📧 💿 IPCamera 06		and the second se
匪 💿 IPCamera 07		
🖭 💿 IPCamera 08		IT Date to A
匪 💿 IPCamera 09		Contraction of the local division of the loc
🖭 💿 IPCamera 10		No. of Concession, Name
匪 🖲 IPCamera 11	01-01-01-00 The 1417224	06-01-2010 Tel 1411/22
📧 💿 IPCamera 12		R of Colored States of Colored
📧 💿 IPCamera 13		ALC: AN ADDRESS OF A DESCRIPTION OF A DESCRIPANTE A DESCRIPANTE A DESCRIPANTE A DESCRIPTION OF A DESCRIPTION
	State of the second state of the	
	A REAL PROPERTY OF THE REAL PROPERTY OF	
	ULANTA DI	In case of the second s

Preview by device:

Click the device node on the list, then multiple channels will start to be displayed synchronously on the selected window divisions. When the 1-window division mode is selected, click to switch to the next window, or click to the previous window for preview.



Recording

Start/Stop Recording

Click **Config** \rightarrow **Local Config** to enter local configuration menu where user can change the directory of saving recording file and the size of file packing.

Local Config			
Remote Config	Protocol Type :	TCP 🗸	
	The Size of File Packeting :	256M -	
	Stream Type :	Main stream 👻	
	Network Transmission Feature :	Less Delay, Good Fluency 👻	
	Display mode :	Full 👻	
	Path for saving recording files :	C:\OCXRecordFiles	Browse
	Path for saving preview captured images :	C:\OCXBMPCaptureFiles	Browse
	Path for saving playback captured images :	C:\OCXPlaybackPicFiles	Browse
	Path for saving download files :	C:\OCXDownloadFiles	Browse
		Save Reset	

Note: If the free space in the defined disk is less than 500M, the web server will stop recording automatically.

Click button on playlist to start recording of this channel, and if the icon is not it will prompt "Recording failed".

Click icon again to stop recording, and the saving file folder will pop up automatically.

When multiple channels are under previewing, user may click ¹⁶⁰ to start all channel recording, or click¹⁶⁰ to stop all channel recording.



Note: Stop previewing will also stop recording of the current channel.

Schedule Recording Settings

Click Config \rightarrow Remote Config \rightarrow Parameters Configuration to enter the remote settings interface of the NVR.

Step1: Click Schedule Record to enter the schedule record settings interface. Enable Schedule Recording.

Remote setting	X
 Device Parameters Device Information Version Information DST Settings Display Settings Video Parameters Schedule Record Wideo Tanpering Video Cost Video Tanpering Video Tanpering Video Rank Hetwork Parameters Network Settings PFDD Settings DDNS Settings Frail Settings Alarm Parameters Account Management HDD Settings Update Remotely 	Schedule Record Channel No. : IF camera 1 Channel No. : IF camera 1 Command Record Time: Settings Advanced Settings: Settings Copy to
Default Reboot	Save Cancel

Step 2: Set recording time and type.

Click Settings button of Record Time to enter record time settings interface.

	Weekday:	Wednesday	•	🔽 All Day Recording
🔽 Periodl	0 🕂 : 0	24	: 0 :	Schedule Recording
🔲 Period2	0 🕂 : 0	0	: 0 :	Schedule Recording 🔄
📕 Period3		0	: 0 :	Schedule Recording
🔲 Period4		0	: 0 :	Schedule Recording 🖉
🔲 Period5	0 🕂 : 0	0	: 0 :	Schedule Recording 🖉
🔲 Period6		0	: 0 :	Schedule Recording 🖉
📕 Period7	0 🕂 : 0	0	: 0 :	Schedule Recording
📕 Period8	0 🕂 : 0	0	: 0 :	Schedule Recording 💆
	Copy to:	Whole Week	•	Сору

Select one day in a week, and select **All Day Recording** if necessary. You may also set period recording by disable **All Day Recording**; there are 8 time periods in one day. Then you can select schedule recording from the drop-down menu beside the periods. Then you may also select copy the settings to whole week or to one day. *Note:* Please make sure each time period is not overlapped with each other.

Playback

open/close audio during playback.

Click **Playback** button to enter the playback interface. Select the channel for playback and search the record files by date from the right column. If corresponding record file is found, the time bar will be displayed at the window bottom. Click **Play** to start playing the selected record file. The selected record files can be downloaded by clicking the Down button. Refer to the following figure:

Playback 🔛	Channel No.: 1
96-03-2010 Thu 13:23:30	2010-06-03 13:23:29
Device:192.168.3.22; CH:1	Current Status: Normal 44 4 2010/06/03 ► ►
main_V_XVGA_25F_30_P_CBR_3072	SUN MON TUE WED THU FRI SAT
VideoEncType: : AutoEncType:	06 07 06 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 50 50 0
IPCancra 01	04 05 05 07 08 05 10 C+ QSearch
	Down 😁
2010-06-03 13:23:29 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 IPCamera 01	
Command Schedule Recording Alarm Recording Manual Recording	
During the playback of record files, user may click the 🚺 button to enter the full	screen mode. The 🚺 button
can be used for capturing pictures and the button is video clipping. User ca	n also click the 💶 button to

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com