Quick Start Guide - Video Encoder & NVR UYAR

Content

1 Ge	neral structure	2
1.1	Connect the IP encoder directly to the NVR	2
1.2	Connect the IP encoder to the router	3
1.3	Mixed form	4
2 Co	nfiguration Uyar-Video-Encoder	5
2.1	Reset	5
2.2	2.2 Make settings on the PC	5
2.3	Settings on the UVE	8
3 Co	nfiguration Network Video Recorder	14
3.1	Installation	14
3.2	Software setup	14
4 We	b-Panel access	24

These instructions are for the NVR DS7608NI-K2 / 8P with firmware V4.030.011

1 General structure

The aim of the following description is to install an UYAR Video Encoder (UVE) for networking with a Hik Vision network video recorder (NVR). There are several ways in which the UVE can be connected to the NVR.

In general, it must first be considered how the UVE should be connected to the NVR. One possibility is to connect the network cable directly to the NVR. The second option is to feed the video signal into the home network at first, the video signal is then routed to the NVR via the router. A mixed form can also be selected. It is important to think about which variant should be used before installation in order to select the default settings on the UVEs accordingly. To better illustrate how the structure could take place and how the IP address / subnet mask / default gateway should be selected, the following graphic illustration should help to improve understanding.

1.1 Connect the IP encoder directly to the NVR



1.2 Connect the IP encoder to the router



1.3 Mixed form



2 Configuration Uyar-Video-Encoder

2.1 Reset

Note: Please do not reset the device if it has been pre-commissioned by Uyar.

There is a reset button (RST) on the front side of the IP encoder, which is used to carry out an initialization reset of the encoder. If you are using the device for the first time, it is essential to perform the reset after switching it on or after it has started up. Use a needle / paper clip and press the reset button for about 8 seconds. This initializes all parameters.



2.2 Make settings on the PC

The standard IP address of the UVE is 192.168.0.31. The default username and password are both "admin".

Most customers cannot log into the UVE's user interface by entering 192.168.0.31 directly in the browser's address line. The reason is that the IP address of the PC is not in the same network segment and they cannot communicate with each other. In order to log into the user interface of the UVE, the IP address of the PC must first be changed.

Step 1: Connect the UVE to a PC / laptop using an Ethernet cable

Step 2: Open "View network connections"



<u>Step 3:</u> Right mouse button> open properties (in some cases the user has to enter the administ-rator password)



Step 4: Select "Internet Protocol Version 4 (TCP / IPv4)" and then click Properties

ų.	×
Networking Sharing	
Connect using:	
2	
<u>C</u> onfigure	
This connection uses the following items:	
Client for Microsoft Networks	
VMware Bridge Protocol	
File and Printer Sharing for Microsoft	
QoS Packet Scheduler	
Internet Protocol Version 4 (TCP/IPv4)	
Microsoft Network Adapter Multiplexor Protocol	
Microsoft LLDP Protocol Driver	
< >	
Install Uninstall Properties]
Description	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	
OK Cancel	

<u>Step 5:</u> Please make a note of your IP address and standard gateway before you make the following changes. Your standard settings, because these standard settings must be set again after you have made the settings. Set the IP address to 192.168.0. ** (** can be a number between 2 and 255, except 31). Set the subnet mask to 255.255.255.0 and the standard gateway to 192.168.0.1

Complete the entry with "OK"

Internet Protocol Version 4 (TCP/IPv4)	Properties X
General	
You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator
O Obtain an IP address automatical	у
• Use the following IP address:	
IP address:	192.168.0.12
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
Obtain DNS server address autom	natically
• Use the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Ad <u>v</u> anced
	OK Cancel

Step 6: Complete the entry with "OK"



2.3 Settings on the UVE

<u>Important</u>: A camera must be connected to the Uyar video encoder and switched on! Otherwise the setting of the second stream is not possible correctly.

<u>Step 1:</u> Open your browser and enter 192.168.0.31 in the address bar. A password query will then open. Enter "admin" for the user name and "admin" for the password. Now the user interface of the UVE opens.

<u>Step 2:</u> In the user interface of the UVE you are first in the "Status" window. Information about the current settings of the main- and substream can be read out here

UY				Service and	Language: English 🗸	
		Status	Display -			
Input Status						
Interface type:HDM Video input:1920 x Audio input:(10bit	I 1080P 860 FCN) 48K					
Mainstream Stat	us					
Video output:(H.26 Audio output:(AAC) Multicast addross: RTMP addross:Inter SRT addross :	4) 1920 * 1080 #30 2ch 48K 128000 net umreachable					
Status	Network	Main stream	Second stream	Audio	System	
Secondstream S Video output:(H.20 Audio output:(AAC) Hulticast address: RTHP address:Inter SRT address :	tatus 4) 1280 * 720 #30 2ch 48K 128000 met unreachable					
Mainstream Live RTSP stream addres HTTP stream addres Secondstream L	: View :::tsp://192.108.0.31:f ::http://192.108.0.31:f	154/main 0000/main (ts)				
RTSP stream addres	s:rtsp://192.168.0.31:	554/ext 1000/ext (ts)				
Status	Network	Main stream	Second stream	Audio	System	

<u>Step 3:</u> Under "Network", adapt the LAN settings to your corresponding network environment. The following settings depend on your planned setup.

Case 1.1 connecting the IP encoder directly to the NVR:

Here you can take the setting of the IP encoder (IP address / subnet mask / gateway) from the example above. Set DHCP to "Disable".

Case 1.2 connecting the IP encoder to the router:

Please contact your network administrator for the following settings. It is necessary to assign fixed IP addresses, which are excluded from the DHCP distribution. It is also necessary to clarify which subnet mask and which gateway is used.

Case 1.3 mixed form:

For the setting of the IP encoder directly connected to the NVR, the IP address/subnet mask/gateway from the example above can be used and set DHCP to "Disable". For all other IP encoders that are connected via the router, please contact your network administrator. It is necessary to assign fixed IP addresses, which are excluded from the DHCP distribution. It is also necessary to clarify which subnet mask and which gateway is used.

U			Service and	Language: English 💙	
	P	Vetwork Settings			
Network se	ettings				
Not I Gat I QOS[D	type: Ethernet Image: B2D: Disable Image: 1F: 192.168.254.3 Image: 1255.255.255.0 Image: 1mage: 1390: 192.168.254.1 Image: 1391: 192.168.254.1 Image: 151: 192.168.254.1 Image: 152.168.254.1 Image: Image: 152.168.254.1 Image: Image:	[0 - 63]			
Status	Network	Main stream Second stream	Audio	System	

After the entry, please scroll down and confirm the entry with "Set-up". You don't need to look at the wifi settings.

<u>Step 4:</u> Now select the following settings in "Main Stream". The encoding type is h.264, the frame rate is 30fps. The bit rate mode is cbr (constant-bit rate). The output size is 1920x1080. We recommend 5120 for the bit rate, which corresponds to 5MB/s.

Confirm the entries with "Set up".

UYAR	Service and	Language: English 🗸	ß
Mainst	ream encoding settings -		
Main stream settings			
Enc type: H.264 v Profile: main profile v Frame rate: 30 Eitrate mode: cbr v Group of picture: 30 Output size: 1920x1080 v Eitrate: 2048 Fluctuate: Auto v Set up	[5-60] [2-200] [16-12000]		
Status Network	Main stream Audio	System	

If you now scroll down the "Mainstream protocol settings" follow. Please set RTSP to "Enable".

Mainstream pr	otocol settings				
HTTP :	/main	TS		ain (begin with "/")	
HTTP port	8000	[1-65535]			
HLS :	/main.m3u8	Disable	Format:/n	ain(begin with "/")	
HLS port:	8100	[1-65535]			
RTSP	/main	Enable	- Format: /	aain (begin with "/")	
RTSP port	554	[1-65535]			
RTSP format:	TS				
RTSP server:		Disable	~		
SRT	Disable				
SRT port:	7120				
SRT delay:	120	[as]			
SRT key:					
SRT stream id:					
Multicast IP	232.255.42.42	Disable	~		
Multicast port	1234	[1-65535]			
RTMP mode	rtmp				
Status	Network Main	stream Seco	nd stream	Audio	System

In addition, please set "ONVIF" to "Enable". You can also specify the channel name in the "ONVIF chn name" field. Choose any name here, such as the name of your machine in which is recorded. Then confirm the entries with "Set Up".

SRT key:						
SRT stream id:						
Multicast IP:	232.255.42.42	Disa	ble			
Multicast port:	1234	[1-6	5535]			
RTMP mode:	rtmp 🗸					
RTMP server ip:	192.168.0.4	Disa	ible 🗹			
RIMP server port:	1935	[1-6	5535]			
RTMP app name:	live					
RIMP stream name:	main					
RTMP user name:						
RTMP password:						
ONVIF:	Enable					
ONVIF chn name:	IPCamera					
	Set up					
GB28281						
Status	Network	Main stream	Second stream	Audio	System	

<u>Step 5:</u> Please change the following settings in "Second-stream". The encoding type is h.264, the frame rate is 30fps. The bit rate mode is cbr (constant-bit rate). The output size is 1280x720. We recommend 2048 for the bit rate, which corresponds to 2MB/s.

Confirm the settings with "Set up".

UY	AR		Service and	Language: English 🗸	4
Second stream	settings				
Enc type: Profile:	H.264 × main profile ×				
Frane rate: Bitrate mode:	30 cbr	[5-60]			
Group of picture: Output size: Bitrate:	30 1280x720 💟 2048	[2-200] [16-12000] (K)			
Fluctuate:	Auto Set up				
Status	Network Main stre	Second stream	Audio	System	

<u>Step 6:</u> The password settings can be changed in "System". Confirm the settings with "Modification".

UY			Service and L	anguage: English 🗸	
	Syste	m Settings -			
Change passwor	rd				
New user name: New password: Confirm new password:	Modification				
System informat	tion				
Device SM:	20100910				
Status	Network Main strea	m Second stream	Audio	System	

After completing the settings, a "reboot" has to be done. The settings become active after the reboot. In general, changes become active after a reboot has been done. Please note that you can only access the device now with the new IP address and the new password.

Set op	
Upgrade settings	
Upgrade system: Durchsuchen Keink. (do not multip uploading, do not power off or refresh the page) Upload	
System settings	
Reboot	
Status Network Main stream Second stream Audio System	

3 Configuration Network Video Recorder

3.1 Installation

There is a USB port on the front of the housing. This can be used to connect the peripherals (mouse).



The internal Ethernet ports (1-8) can be found on the back (left). These must be connected to the video encoders if they are connected directly. The VGA or HDMI port can be connected to a standard monitor. The LAN port in the middle of the device is the external Ethernet port, which must be connected to your router or switch, depending on your network structure. The additional USB port can optionally be used to connect additional peripherals. Connect the NVR to an external power source.



3.2 Software setup

After you have connected the NVR to the additional peripherals, you can set up the NVR software. To do this, switch on the device using the main switch (power switch) on the back and wait a moment for the device to start up.

Please select the appropriate language in the first view and confirm your entry.

A Language					
	Language	English	~		
				*	
				Apply	Skip

Confirm the query as to whether the display on your monitor should be set to "1920x1080".



Now assign a corresponding password for the device and confirm it in the following step. You do not need a separate camera activation password, just use the device password of the corresponding device. An email address does not have to be entered here.

Then confirm your entries.

Q Activation			
	*User Name	admin	
	*Password		N
	*Confirm Password		
*Came	ra Activation Password		
	⑦ Reserved Email	Use the Device Password	
Shutdown			Activate

Now assign any unlock pattern and confirm this in the following steps.





Now you get to the setup wizard. All settings that you make in the following steps can of course also be changed later using the settings in the main menu.

First set the date and time.

Wizard					
C				2	
	Time Zone	(GMT+08:00) Beijing, Urumqi,	↓		
	Date Format	DD-MM-YYYY			
	System Date	05-01-2021	Ë		
	System Time	21:06:46	0		
	-NTP-Time-Sync			ĸ	
Exit				N	ext

Confirm your entry with "Next". Now the network settings have to be made. Please contact your network administrator about how your new NVR should be integrated into the network. The external IP address should be permanently assigned and excluded from the DHCP distribution. Deactivate "DHCP" and select your corresponding IPv4, subnet, standard gateway and DNS server addresses.

Errors and changes excepted



🚀 Wizard				
•			1	Ð
	DHCP (IPv4)	•	-	
	IP Address	192.168.2.168		
	Subnet Mask	255.255.255.0		
	Default Gateway Auto Obtain DNS	0.0.0.0		*
	Preferred DNS Server	8.8.4.4]	
	Alternate DNS Server	8.8.8.8		
Exit				Previous Next

 ✓ Wizard

 ✓

 ✓

 Enable

 Enable

 Connection Status

 Office

 Bind Status

 No

 Time Sync

 Stream Encryption

 Server IP

 Medew fak-connect cc

The next step can be skipped. No settings need to be made here.

Now you get to the camera overview or the overview of the video encoder. The video encoder (cameras) can theoretically be set up at this point. However, Uyar recommends setting it up at a later time outside of the wizard. We'll come back to this point later in this guide.

	(Θ					B			- (8)	
\sim Ad	lded Devic	e List									
+ Adc											
	No. 🗧	IP Address	I Camera Name	∣ Status	Protocol	l Opei	ration		Security		Device
	D1	192.168.254.2	IPCamera 01		HIKVISION	l			N/A		
	D2	192.168.254.3	IPCamera 02		HIKVISION	L			N/A		
	D3	192.168.254.4	IPCamera 03		HIKVISION	l			N/A		
	D4	192.168.254.5	IPCamera 04		HIKVISION	l			N/A		
	D5	192.168.254.6	IPCamera 05		HIKVISION	⊿			N/A		
	D6	192.168.254.7	IPCamera 06		HIKVISION	l			N/A		
	D7	192.168.254.8	IPCamera 07		HIKVISION	┛			N/A		
	D8	192.168.254.9	IPCamera 08		HIKVISION	l			N/A		
> 0	nline Devic	e List								×	
Exi										Previous	Next

The hard drive has to be initialized. To do this, click the check box for the hard drives and initialize them with "Init". The initialization does take a few seconds. NVR devices that you obtain from Uyar are built with hard drives as standard.

🚀 Wizard					
G		•			
+ Add O Init					Free/Total space: 0MB/0MB
🗌 Label	l Status	∣Туре	l Capacity	Free Space	∣ Group ∣ Operation
Exit					Previous

In this screenshot shown, however, no hard drive is installed.

Now you get to the live view of the cameras. Right click on any field to open the navigation bar and then select "Exit Full Screen".

			ino link
ľ	IO LINH	Single Screen > B Window Division >	NO LINK
		 < Previous Screen > Next Screen © Start Auto-switch + Add IP Camera P Playback & PTZ Control 	NO LINK
NO LINK	NO LINK		NO LINK

NVR IN PR ۲ 0 0 × # ¢ ± () 2 • G [D2] IPCamera 02 NO LINK 6 • G [D5] IPCamera 05 🚱 [D6] IPCamera 06 **NO LINK** NO LINK 🚱 [D7] IPCamera 07 G [D8] IPCamera 08 . . NO LINK D1 🔊 . 2 NO LINK NO LINK NO LINK NO LINK く 1/1 > 〇 🖬 💱

Now the navigation bar opens. Here you are in live view mode.



Quick Start Guide - Video Encoder & NVR UYAR



D	IVR	Nº Z	\mathbf{O}	ĨQ	•	_ ~		ш ф т О
Sy	stem				+			
Ne	etwork	> System	Date 05-01-2021					
Ca	mera	System	Time 21:11:40	O				
_		Reso	lution 1920*1080/	60Hz(1080P)(R€ ∽				
Re	cord	* v	/izard 🔵					
		Lock Screen Pas	sword					
		NTP Time	Sync 🔵					
							**	
⇒ E	xpert Mode							

Since the video encoder and the NVR communicate with each other using the ONVIF protocol, the cameras may be recognized and shown in the live view. If this is not the case, please open the IP settings using the pencil symbol. The corresponding settings for the connection with the Uyar video encoders can now be made.

Quick Start Guide - Video Encoder & NVR UYAR

	NVR				R.	٢	F Q	ø	Ж					₩ ¢ 4	J (J)
s	System			Addeo	1 Device Lis	st									
ŀ	letwork			+ Add		te 🛛 🕸 Show Pa	ssword								Q
	Camera				l No. 🗧	IP Address	I Camera Name		Status	Protocol	l Oper	ation		l Security	
					D1	192.168.254.2	IPCamera 01			ONVIF	₫			Risky Passwo	ord
	IP Camera	ĸ			D2	192.168.254.3	IPCamera 02			HIKVISION	₽			N/A	
	OSD				D3	192.168.254.4	IPCamera 03			HIKVISION	₫			N/A	
					D4	192.168.254.5	IPCamera 04			HIKVISION	L			N/A	
	Came				D5	192.168.254.6	IPCamera 05			HIKVISION	⊿			N/A	
•	Record		>		D6	192.168.254.7	IPCamera 06			HIKVISION	L			N/A	
						192.168.254.8	IPCamera 07			HIKVISION	l			N/A	
					D8	192.168.254.9	IPCamera 08			HIKVISION	L			N/A	
	> Online Davice List														
=	Expert Mode														

Now the menu field of the respective end device opens. Please select the "Manual" method here. For the channel addresses you have to enter the corresponding IP addresses that you have already assigned for the Uyar video encoder. Please select "ONVIF" as the protocol type. The port will set itself automatically. All other fields can remain in the preselection. Confirm with "OK".

Edit IP Camera	×	<
Channel No.	D1	
Adding Method	Manual ~	
Channel Address	192.168.254.2	
Protocol	ONVIF ~	
Management Port	80	
Channel Port	1 ~	
Transfer Protocol	Auto ~	
User Name	admin	
Password		
Use Camera Activation	•	
	OK Cancel	

If you want to change settings, you have the option of changing the settings area from "Simple mode" to "Expert mode". In simple mode, only the essential settings are displayed. The expert mode allows further setting options.

NVR	1		٥	×	瑞 ウ 千 ①
System		_	· · · · · ·		
Network	V IP Address	192.168.2.168			
General	Subnet Mask	255.255.255.0			
Hik-Connect	Default Gateway	0.0.0.0			
Email	Auto Obtain DNS	•			
Camera	> Preferred DNS Server	8.8.4.4			
Record	Alternate DNS Server	8.8.8.8			
⇔ Expert Mode					

After the change, you have the option of changing the internal IPv4 address of the internal Ethernet ports (1-8), for example.

NVR	i di		ø	×	5 Ļ Ū
System	> TCP/IP DDNS NA	T NTP More Settings	· · · · ·		
Network	✓ NIC Type	10M/100M/1000M Self-adar			
General	DHCP (IPv4)				
Platform Access	IP Address	192.168.2.168			
Email	Subnet Mask	255.255.255.0			
Camera	> Default Gateway	0.0.0.0			
Event	MAC Address	c0:51:7e:54:d2:21			
Pasard	MTU(Bytes)	1500			
Record	Auto Obtain DNS	•			
	Preferred DNS Server	8.8.4.4			
	Alternate DNS Server	8.8.8.8			
	Internal IPv4 Address	192.168.254.1			
⇔ Easy Mgde					

In the system area you can find the model type and the firmware version and restore the device to the factory settings.

NVR))	•	×		嘂 ᄒ ᅷ ()
	Device Name	Network Video Recorde	r 📕		
	Firmware	V4.30.011, Build 200803	3 (
	Device Model	DS-7608NI-K2/8P			
	Serial No.	0820201112CCRRF107	11497WCVU	*	
	Simple Restore	Restore all parameters to default, except user passwords and general network parameters.			
	Factory Defaults	Restore all device parameters to default settings.			
	Restore to Inactive	Restore the device to the		nly the admin password will be r	estored.

4 Web-Panel access

To use the web panel, please open Internet Explorer and enter the IP address of your NVR in the address line of the browser. After the web view opens enter your login details.



After opening the web panel for the first time, you will be asked to install a plug-in in order to be



After installing the plug-in, start the live-view by clicking the icon • Live-Anside
• C

