

## SYSTEM REQUIREMENTS

- DoorBird IP Video Door Station D10x/D11x/D21x Series.
- Synology Network Video Recorder (NVR) or Network Attached Storage (NAS).

#### ADDITIONAL INFORMATION

The following guide will take you through the steps of setting up a DoorBird IP Video Door Station in connection with a Synology Network Video Recorder (NVR) or Network-Attached Storage, referred to simply as "Synology device" throughout this manual. Please make sure that the Synology device receives an IP address and is connected to your network.

Please also make sure that your DoorBird IP Video Door Station is online, using this service : https://www.doorbird.com/checkonline

The local IP address of your DoorBird is available from the same page.

# 1. SETTING UP THE EXTERNAL VIDEO SERVICE (NVR)

For the DoorBird IP Video Door Station to be properly recognized by the Synology device, the "NVR" setting of the DoorBird IP Video Door Station must be activated.

- 1.1 Open the DoorBird App and log into the administration area under "Settings →Administration" using the administrator username and password credentials from the "DIGITAL PASSPORT" document that was shipped with your DoorBird IP Video Door Station.
- 1.2 Find the "External video service (NVR) toggle under "DOORBIRD CONNECT" from the main menu and enable it. Additionally, there is another option, NVR Substream --> you can select MPEG/H.264 or Off Substream.







## 2. SETTING UP THE SYNOLOGY DEVICE

2.1 Open the Synology web interface by entering the IP address of the Synology device in your browser and enter the "Surveillance Station".





2.2 On the main screen of the "Surveillance Station", click on "IP Camera".

2.3 Click "Add" to add a new device. Enter the Camera details (Camera Address = DoorBird IP Address).



Add Manually		х
Add Camera		
∧ Camera 1		
Name:	Keypad	
Brand:	[ONVIF]	
Model:	Streaming only	
Camera address:	10.0.0.0	
Port:	80	

#### 2.4 Click Next, then Click Authenticate.

Set up can	nera infor	mation					
Authenticate	Batch R	ename Cł	nange Storage			Q Search	
Snapshot	Brand	Model	Camera Address	Camera Name	Storage	Status	
	ONVIF	Streami	10. R.R.R. 8: 80	Keypad	surveillance	• <u>Authenticate</u>	
							1 items



2.5 Add username and password of the DoorBird App (as in the digital passport).

Add Camera Wiza   Enter credentials   Username:   abcdefgh   Password:   Port:   80     Authenticate   Snapshot   Select cameras   Camera Name   Brand   Model   Camera Addr   HTTPS   Status	Add Camera Wiza   Set up cam   Set up cam   Password:   Port:   80   Port:   80   Snapshot   Camera Name   Brand   Model   Camera Addr   HTTPS   Status   Camera Name   Brand   Model   Camera Addr   HTTPS   Status	1	Authenticate					×	
Add Camera Wiza Set up cam Password: Port: 80 Authenticate Snapshot Camera Name Brand Model Camera Addr HTTPS Status Keypad ONVIF Streaming only 10.0.00580 10 Not Supported ? te	Add Camera Wizat   Set up cam   Password:   Port:   B0   Authenticatet   Snapshot   Snapshot   Camera Name   Brand   Model   Camera Addr   HTTPS   Status   Keypad   ONVIF   Streaming only   10.0.0.050   10   Not Supported		Enter credentials						
Password:       ••••••••       ••••••••       ••••••••       ••••••••       ••••••••       ••••••••       •••••••••       ••••••••••       ••••••••••••••       ••••••••••••••••••••••••••••••••••••	Password: ••••••••   Port: 80   Authenticate   Snapshot   Scamera Name   Brand   Model   Camera Addr   HTTPS   Status   Status   Keypad   ONVIF   Streaming only   10.0.0.080 30   Not Supported	Add Camera Wiza	Username:	abcdefgh					
Port:     80       Authenticate     Select cameras       Snapshot     Select cameras       Camera Name     Brand     Model     Camera Addr     HTTPS     Status       Camera Name     Brand     Model     Camera Addr     HTTPS     Status       Camera Name     Brand     Model     Camera Addr     HTTPS     Status	Port:     80       Authenticate     Select cameras       Snapshot     Select cameras       Image: Comera Name     Brand     Model     Camera Addr     HTTPS     Status       Image: Comera Name     Brand     Model     Camera Addr     HTTPS     Status       Image: Comera Name     Brand     Model     Camera Addr     HTTPS     Status       Image: Comera Name     ONVIF     Streaming only     10.0.0.0280     30     Not Supported     ?	Set up cam	Password:	••••••					
Snapshot Select camera's Early Model Camera Addr HTTPS Status	Snapshot     Select camera's     :       Image: Camera Name     Brand     Model     Camera Addr     HTTPS     Status       Image: Camera Name     Brand     ONVIF     Streaming only     10.0.0.0:80     10     Not Supported     ?	Authenticate I	Port:	80					
Camera Name Brand Model Camera Addr HTTPS Status	Camera Name Brand Model Camera Addr HTTPS Status Keypad ONVIF Streaming only 10.0.0.080 30 Not Supported ?	Snapshot	Select Califeras						
			Camera Name	Brand	Model Streaming only	Camera Addr 10.0.0.0:80 30	Not Supported	Status	

2.6 After sucessfull authentication, a green tick will be visible. Click Next, click Complete Setup.



2.7 You can edit Video Settings as per requirements, click Next.

Add Camera Wizard Apply camera con	figurations in batch - Video Settings			×
Video format Audio format	H.264 (Same with camera setting)			
<ul> <li>Stream Profile ()</li> <li>High quality</li> <li>Balanced</li> <li>Low bandwidth</li> </ul>	Stream 1 Stream 1 Stream 1			
	1290x720			
Bitrate control Image quality	variable 5 (Highest)	•		
			Previous	Nex

∧ Recording		
Pre-recording time before an event (sec.)		
Post-recording time after an event (sec.)		
💋 Keep the files within (days)		
Limit the archive folder up to (GB)		
<ul> <li>Time Synchronization</li> </ul>		
Network time server	Surveillance Station	
^ Motion Detection		
Detection algorithm source	By camera	



2.8 You can schedule for the Recordings (If you want to record continuously or to record motion detection), Click Next.

Note: Customize 1 and Customize 2 Surveillance Station will only record video when there is a customized event detected. You can select Motion Detection, Digital Input, Audio Detection, Tampering Detection, PIR Motion Detection, and ACAP from the drop-down menu if your camera supports such functions.

Add Cam	iera	W	liza	rd																									
Арр	ly	са	m	era	a c	оп	ıfi	gu	ra	itic	ons	s iı	n I	ba	tc	h	- 5	sc	he	du	le	S	eti	tin	igs	5			
Sch	ned	ule																											
	ele	te									Co	ntir	nuc	ous								Mk	otic	n t	bet	ecti	ion		
<mark> </mark>	ust	om	ize								Cu	sto	mia	ze i	2														
			Π			Π	Ι																						
Wed																													

Note: If you want to schedule for any event-based recording, please don't select for schedule.

2.9 Click Done.

l Camera Wizard		×
Summary		
The cameras will be added using the following configurations. If certa closest options instead.	in settings cannot be applied due to camera differences, Surveillance Station will try the	
∧ Cameras		
Authenticated	1 cameras	
Unauthenticated	0 cameras	
Used licenses		
Available licenses		
↑ Video Settings		
Video format	H.264	
Audio format	(Same with camera setting)	
Stream Profile - High quality	Stream 1	
Stream Profile - Balanced	Stream 1	
Stream Profile - Low bandwidth	Stream 1	
	Previous Done	

2.10 Click on IP Camera then Click Edit.

Click on "Load Capability" to make sure the DoorBird IP Video Door Station is discovered correctly. If all values were entered correctly, a green check mark should appear. If not, please make sure you entered all values correctly and try again.

Click on "Test Connection" to test the video stream of the DoorBird IP Video Door Station. If everything is set up correctly, a green check mark should appear. If not, please make sure your DoorBird IP Video Door Station is active and set up correctly.





### 3. SETTING UP EVENT-BASED RECORDING IN THE SYNOLOGY NVR

Note: For security reasons, it is advised to activate HTTPS in your Synology NVR to allow for encrypted communications between your Synology NVR and your DoorBird IP Video Door Station. Please refer to the manual of your Synology NVR for instructions on how to activate HTTPS.

3.1 From the main menu, select "Action Rule".



📴 Action Rule	
⊞ List	Add Delete Edit Enable -
History	Add Action Rule Wizard Information
	Name:     Doorbell       Rule type:     Triggered       Action type:     Interruptible

3.3 Select External device and External event 1. Click on "Get Command". Please make a note of generated command for upcoming settings.

Action Rule	Add Action Rule Wizard					
X Advanced	Add Delete					
	Logical operator: Interval (seconds):					
	Event source: Event Trigger type:	External device External event 1 One time				
		Get Command	Previous	Next	•	
	Command of E	xternal Event - External event 1				
	https://10.4. /entry.cgi?api version = 18 password="{	1.223:5001/webapi =SYNO.SurveillanceStation.ExternalEvent&m entId=1&eventName="This is external ever password}"	ethod="Trigger"& ht1"&account="{acc	ount)"&		
	*eventNam	e is an optional parameter.		Close		

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3.2 Click "Add" to add a new action rule. Enter an appropriate name for the type of event e.g., "Doorbell".



3.4 Select the action device as your camera device, then action you want to assign for that event e.g., take snapshots (snapshots are visible in snapshots application), start action rule recording (recordings are visible in recordings application).

ule Wizard		×	
on 1			
vice: Camera		-	
Keypad		•	
Start action rule	recording	•	
10	Second(s)	-	
	Drovio	Novt	
	Previou	us Next	
	Delete on 1 vice: Camera Keypad Start action rule 10	Delete n 1 vice: Camera Keypad Start action rule recording 10 Second(s) Previo	Delete   on 1   vice:   Camera   Keypad   Start action rule recording   Start action rule recording   10   Second(s)

3.5 Schedule as per requirements, then apply.

	Add Action Rule Wizard	×
⊞ List	Schedule	
i History		
🗙 Advanced	Delete Active	
	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
	Sun Sun	
	Mon Mon	
	Wed	
	Sat Sat	
	Previous Done	



## 4. MODDIFY HOME MODE SCHEDULE SETTINGS ACCORDING TO YOUR RECORDING TYPE

4.1 Open the Home mode icon from the main search bar (Similar to 3.1).



4.3 Please leave Recording empty because recording is enabled for event action in the step 3.5.

😚 Home Mode						? = 🗆 X	
Overview	General		Notification	Stream Profile	Action Rule		
Schedule	Delete		Con	tinuous	Motion Detection		
Settings	Custon						
	⊿ 0 Sun	1234	5 6 7 8	9 10 11 12 13	3 14 15 16 17 18 19 20 21 22 23		
	Mon Tue						
	Wed						
	Fri						
	Sat						

4.5 Please select the bandwidth type you want to view in your recording.

ding

e Vic Live view:

Recording Stre

Continuous n Detection Customize 1:

Customize 2:

Mobile

Notification

Balanced

Balanced

Balanced

High quality

Low bandwidth

💮 Home Mode

Overview Schedule 4.2 In settings, you can enable for settings of recording, notification, stream profile, action rule.

💮 Home Mode			
Overview	General Recording Notification	n Stream Profile Action Rule	
Schedule	A Enabled Customized Setting	s	
Q Settings	You can choose the customized set Trable the setting of recording Trable the setting of notificatio Trable the setting of notificatio Trable the setting of stream pr Trable the setting of action rule Applied Devices	ings to be applied when entering Home Mo n offie e	ide.
	The chosen devices will be applied t	to "Recording", "Notifications", and "Stream	ing Profile" pages
	Cameras:	fingerprint	•
	l/O Module:	All Cameras None Keypad S fingerprint	
			Reset

4.4 Please select the mode of notification you want to receive.

💮 Home Mode			? - 🗖
Overview	General Recording Notification Stream Profile	Action Rule	
Schedule			
	∧ System		
Settings	New device added		
	Device deleted		
	Recording failed		
	Recording storage removed		
	Recording storage installed		
	Snapshot archive limit reached		
	Action Rule		
	Bookmark log limit reached		
	∧ Camera		
	Camera connection lost		
	Camera connection resumed		
	Motion detected		
	ACAP VMD event detected		
	Digital input detected		

4.6 Enable action rule.

	٢	Home Mode					
₹ule		Overview	Genera	l Recording	Notification	Stream Profile	Action Rule
	⊡	Schedule	Action F	ule			
-	٥	Settings	≣	All action (	rules		
				Doorbell Triggered			
-							



4.6 This setting is optional, you can schedule home mode for certain period of time by enabling this option --> Enable schedule switching.

🔒 Home Mode		? = 🗆 ×	😚 Home Mode			? – 🗆 X
Dverview	Recurrence One Time		Overview	Recurrence One Time		
Schedule	∧ Schedule Settings		Schedule	∧ One Time Switch		
G Settings	You can enable schedule switching if you want to switch to Home Mode according to a fived sch         Isable schedule switching         Leave Home Mode         Isave Home Mode </td <td>23</td> <td>O Settings</td> <td>🔮 Enter Home Mode</td> <td>2022-11-23 III 04 • : 00 • 2022-11-24 III 06 • : 00 •</td> <td></td>	23	O Settings	🔮 Enter Home Mode	2022-11-23 III 04 • : 00 • 2022-11-24 III 06 • : 00 •	
	Thu and a second s					

Hint: The above steps from 1 to 4 are an example for recording the action rule event ---> To record the doorbell action.

Note: You can configure according to your requirements by making a few changes in the above steps.

### 5. Adding D11 for Live 1080p Stream.

::		•	*	•	Q
IP Camera					x
	= 1				
	Safeguard your environment				
r,	Quickly set up cameras by clicking Add. You can also <u>import</u> a list of camera your camera is not on the <u>Support List</u> , use <u>Integration Tool</u> to add your ca	is. imer	a.		
	Add				

#### 5.1 Go to Camera to add the DoorBird.

#### 5.2. Click on Add Manually.

Add Camera Wizard				
Select cameras				
Add Manually -				
Brand	Model	Camera addre		MAC Address
	No cam Discover	eras were foun	d nually	

5.3. Select Brand --> User Define, Give a name and Enter the rtsp stream with user1/2/.. DoorBird details. Click on Add. rtsp://user0001:password@DoorBird\_IP\_address:554/mpeg/1080p/media.amp

Add Manually			x
Add Camera			
^ Camera 1			
Name:	d11		
Brand:	(User (	Define] -	
Туре:	Stream	ning - RTSP 👻	
Path:	rtsp://	z@10.0.0.0:554/mpeg/1080p/media.amp	
			3
Enter the path format as in rtsp://[username]:[passwith]	follows: ord]@[IF	?]:[port]/[video_path]	-
		Cancel	



#### 5.4. Click on Next.

										_
	Add Camera	a Wizard								<
	Select	cameras								
ľ										
	Add Ma	anually •			All Cameras		Q Search			
			Model	Camera addr	BSS	MAC Address	Status			
		User Define	Streaming - RTSP	10.0.0.0	:554/1080p/m		Unadde	d		
							1 / 1 items s	elected	G	
								Nex		

5.5. Select Storage --> Surveillance,Click on Next.



5.6. Select Complete Setup, Click on Next.

Add Camera Wizard		
Apply camera conf	figurations in batch	
Select a setup mode:	<ul> <li>Quick Setup Use default Surveillance Station settings to add cameras.</li> <li>Complete Setup Customize the configurations for the selected cameras.</li> </ul>	
	Previo	as Next

5.7. Select the below options and Click on Next.



5.8. Select the options accordingly for recording. Click on Next.

^ Recording		
Pre-recording time before an event (sec.):		•
Post-recording time after an event (sec.):		
G Keep the files within (days):		
<ul> <li>Limit the archive folder up to (GB):</li> </ul>		
^ Time Synchronization		1 de
Network time server:	By camera settings 🗸 👻	
^ Motion Detection		
Detection algorithm source:	By camera -	
		Previous Next



5.9. Sechulde for recording. Click on Next.

#### 5.10. Click on Done.



Summary	
The cameras will be added using the following configurations. If certa closest options instead.	in settings cannot be applied due to camera differences, Surveillance Station will try the
Item	
Stream 1 - Resolution	1080P
Stream 1 - Frame rate (FPS)	
Stream 1 - Bitrate control	Variable
Stream 1 - Image quality	5 (Highest)
↑ Recording	
Pre-recording time before an event (sec.)	
Post-recording time after an event (sec.)	
Keep the files within (days)	
Limit the archive folder up to (GB)	
Network time server	By camera settings
Motion Detection	By camera
	Previous

# 6. SETTING UP EVENT-BASED RECORDING IN THE DOORBIRD APP

6.1 Open the DoorBird App and log into the administration area under "Settings  $\rightarrow$  Administration" using the Administrator username and password credentials from the "DIGITAL PASSPORT" document that was shipped with your DoorBird IP Video Door Station.

10:30		n	♥ 🕯
	Adminis	tration	
LOGIN			Q
Admin nam	e		
Admin pass	word		0

6.2 Scroll down to the "Favorites" section and tap on "HTTP(S) Calls".



2:58	<u>n</u>	<b>♀</b> ∎
	Administration	Save
Settings		,
History		>
FAVORITES		
HTTP(S) Calls		>

2:43	. <u>B</u>	<b>*1</b>		
	HTTP(S) Calls	Save		
HTTP(S) CALLS				
Name		Synology		
URL	https://10.0.0.0:50001/webapi			

6.4 In the "URL" field, enter the action URL you were presented with in step 3.8., replacing {account} and {password} with your Synology account name and password (without the {}-braces!), optionally changing the "eventName" from "This is external event1" to something more appropriate, e.g., "Doorbell".

https://10.0.0.0:5001/webapi/entry.cgiapi=SYNO.SurveillanceStation.ExternalEvent&method="Trigger"&version=1&eventId=1 &eventName="Doorbell"&account="xyzxyz"&password="abcd1234"

<sup>6.5</sup> Click "Save" to store this new HTTP(S) call.

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6.6 To forward calls from the DoorBird IP Video Door Station to the Synology device, schedule for doorbell needs to be properly set up. Depending on the model of the DoorBird IP Video Door Station, choose one of the following Options:

A) For devices with single doorbell (e.g., DIOxx, etc.) in the administration area under "schedule for doorbell" from the settings menu. Select the appropriate button and tap "schedule for actions". From this screen, tap the bell symbol in the upper left corner, choose "HTTP(S) calls" and fill out the schedule per your requirements.

B) For devices equipped with a keypad (e.g., D21xx) in the administration area under "Keypad" in the settings menu. Select the appropriate key combination and go to "Schedule for actions". From this screen, tap the bell symbol in the upper left corner, choose "HTTP(S) calls" and fill out the schedule per your requirements.

C) For all devices equipped with two doorbells (e.g., D11xx) in the administration area under "schedule for doorbell 1 or 2" in the settings menu. Select the appropriate key combination and go to "schedule for actions". From this screen, tap the bell symbol in the upper left corner, choose "HTTP(S) calls" and fill out the schedule per your requirements.



3:3	33				3	,	•	١		
Schedule for actions										
•	<	sy	nology	ý	*	> [		D		
00:00 00:30	MO	TU	WE	TH	FR	SA	SU			
01:00-										
03:00-										

Hint: By tapping the button in the upper right corner it is possible to fill or empty the entire schedule.

6.7 Return to the main administration area and save the settings. Wait for about five minutes for the new settings to take place.

### FIRMWARE INFORMATION

This manual was tested using the following versions:

1. Synology Network Attached Storage (NAS)

Hardware device model: DS216 play DSM version: DSM 7.1.1 - 42962(Update 1)

2. Door Bird IP Video Door Station:

Hardware device series: D21DKH-V2A Software Version: 000144

Hardware device series: D1102FV Software Version: 000145

Hardware device series: D101S Software Version: 000144