

How to Use Time-Lapse Photography Function of NVR

| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|------|-------|-----------|
| Product: | NVR | | | Page: | 1 of 5 |

Function Introduction

Delay photography NVR, this product complements the application of back-end products in scene recording and live broadcasting of special industries, such as natural scenery, construction sites, ecological greenhouses, food safety and other fields.

Supported NVR Models and Versions

| SAP code | Device Models | Versions |
|-----------|--------------------------------------|----------|
| 303616832 | DS-9632NXI-I8/S(标配)(C)/TIME-LAPSE | 4.60.105 |
| 303616833 | DS-7716NXI-I4/S(标配)(C)/TIME-LAPSE | |
| 303616834 | DS-7608NXI-I2/8P/S(标配)(C)/TIME-LAPSE | |
| 303616835 | DS-7608NXI-I2/S(标配)(C)/TIME-LAPSE | |

Recommended IPC Models

| Device Models |
|-----------------------------|
| DS-2SF8C425MXS-DL(24F0)(P3) |
| DS-2CD3747G2-LZSU |
| DS-2CD3087G2-LSU |
| DS-2CD6984G0-HIS |

Steps for Configuration

Local GUI

- 1. Time-Lapse Photography Shooting Parameters
- (1) Shooting Interval

Log in to the local GUI of the device and click "System" – "General" – "Time-Lapse Photography Shooting Interval" as shown in the following figure.

Select the shooting interval. The options are: 10, 15, 20, 30, 45, 60, 120, 240, 360 minutes. The default is every 10 minutes.

| Title | : | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|-------|-----|--|----------|------|-------|-----------|
| Produ | ct: | NVR | | | Page: | 2 of 5 |

| 0 | General | | Language | English | | HDM11//GA Res | alution | 1920*1080/60HZ(1080P) | | |
|---|------------------|---|-----------------|--------------------|------------|------------------|-------------------|-----------------------|------|----|
| L | User | | Time Zone | (GMT+08.00) Beijin | | HDMI2 Resolution | | | | |
| | Network | > | Time Zone | (GMT+08.00) Bellin | g, Urumq 👻 | HDML2 Resolution | 1 | 1920*1080/60HZ(1080P) | | |
| = | Event | > | Date Format | DD-MM-YYYY | - | Mouse Pointer Sp | ieed 5 | Slaw | Fast | |
| 2 | Live View | > | System Date | 28-06-2022 | | CVBS Output Bri | ghtness | | | |
| Ş | RS-232 | | System Time | 14:54:31 | | Output Standard | | PAL | - | |
| Ē | Holiday | | Device Name | 22 | | Time-Lapse Phot | iography Shooting | EE. | min | |
| | POS | | Device No. | 255 | | Enable DST | | 10 | | |
| ð | Audio Management | | Auto Log out | 5 Minutes | | Start Time | Apr - | 15 20 | | |
| | | | | | | | | 30 | | |
| | | | Enable Wizard | | | End Time | Oct · | 45 | | 00 |
| | | | Enable Password | | | DST Bias | | 60 | | |
| | | | | | | | | 120 | | |
| | | | | | | | | 240 | | |
| | | | | | | | | 360 | | |

(2) Quota

Click "Storage" – "storage mode" – "Time-Lapse Photography Quota" as shown in the following figure. After selection, the device will reserve corresponding space in the HDD for storing time-lapse photography materials.

The user can select the quota mode of time-lapse photography for each channel. The options are: 15G for 6 months, 25 G for 12 months, 50 G for 24 months and 400 G for 24 months

Note: when the NVR channel enables the ultra HD resolution mode and add 32m resolution IPC, please select the quota mode as 400G for 24 months if user wants to generate time-lapse photography of two years (only channel 1 can select 400G for 24 months).

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|-------|----------------|---|---------------------------|------------------|---------|---|---|----|--|-------|--------------|
| | Schedule | > | Mode | Quota | Group | | _ | | | | |
| Д, | Storage Device | | Camera | [D1] Camera 001 | | | | | | | |
| 550-3 | SSD Management | | Used Record Capacity | 23.00GB | | | 1 | | | | |
| | | | Used Record Capacity | 23.0008 | | | | | | | |
| (8) | Advanced | | Used Picture Capacity | 1024.00MB | | | | | | | |
| | | | HDD Capacity (GB) | 3726 | | | | | | | |
| | | | Max. Record Capacity (GE | 8) 0 | | | | | | | |
| | | | Max. Picture Capacity (GE | 1) 0 | | | | | | | |
| | | | Time-Lapse Photography | 15 GB for 6 Mont | hs | 1 | | | | | |
| | | | A Free Quota Space 32 | 15 GB for 6 Mont | bs - | | | | | | |
| | | | | 25 GB for 12 Mor | | | | | | | |
| | | | | 50 GB for 24 Mor | | | 2 | | | | |
| | | | | 400 GB for 24 Ma | onths | | | | | | |
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| | | | Apply | | Copy to | | | | | | |

2. Create the Time-Lapse Photography video

The path is "File Management" – "Time-Lapse Photography"

| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|------|-------|-----------|
| Product: | NVR | | | Page: | 3 of 5 |

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| D Video | Video Production | 1 | | | | | | | |
| Picture | Camera No. | [D1] Camera 001 | - | | | | | | |
| ⊘ Smart Search > | Material Search To | 2022-05-29 00:00:00 | | 2022-06-27 23:59:5 | 19 | 60 | | | |
| Time-Lapse Photography | Material Search Ti | 06:00-18:00 | | | | | | | |
| 2 | Time-Lapse Video | 15 | | sec | | | | | |
| | Material Search Sh | Edit | | | | | | | |
| | | Generate Time | View Recording | | h | | | | |
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(1) Select the channel that needs to generate time-lapse photography. Currently, the device supports up to 8 channels to generate.

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| Þ | Video | Video Production | | | | | | |
| -3 | Picture | Camera N | a. | [D1] Camera 001 | - 4 | : | | |
| Q | Smart Search > | Material S | parch To | [D1] Camera 001 | 202 | 2-06-27 23:59:59 | - | |
| D | Time-Lapse Photography | | | [D2] IPdome | | | | |
| | | Material S | earch Ti | [D3] IPCamera 03 [D4] IPdome | | | | |
| | | Time-Laps | e Video | [D5] Camera1 | sec | | | |
| | | Material S | arch Sh | [D6] IPCamera 06 | | | | |
| | | | | [D7] IPCamera 01 | | | | |
| | | | L | [D8] Camera 01 | | | | |

(2) Configuration material search total time. The maximum allowable total time is 2 years. If more than 2 years are selected, a prompt "the search time span cannot exceed 2 years" will be given when generating the video

| Genera | i | The search time span cannot exceed 2 years. Please set again. |
|--------|---|--|
| | | |

(3) Select material search time for one-day, the default search range is 6-18 o'clock every day. Users can set the time period according to their needs.

| Title: | How to Use Time-Lapse Pho Function | | Version: | v1.0 | Date: | 2022/7/01 |
|----------|---|---|---------------------|------------|-------|-----------|
| Product: | | NVR | | | Page: | 4 of 5 |
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| | Division Laura Protography | tenal Search Time for 00:00 | 2022-06-27 23 59 59 | | | |
| | Time-Lapse Vid | | J 560 | | | |
| | Material Search | Sh. Edit Generate Time- View Recording | | | | |
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(4) Select the time-lapse video length. The default video length is 15s. You can also select the video length as 15, 30, 60, and 180s

| 5 | Video | Video Production | | | | | |
|---|------------------------|--------------------|---------------------|-----|---------------------|----|--|
| | Picture | Camera No. | [D1] Camera 001 | | | | |
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| ٥ | Time-Lapse Photography | Material Search Ti | 06:00-18:00 | | | | |
| | | Time-Lapse Video | EK. | - | sec | | |
| | | Material Search Sh | 15. | | | | |
| | | | 60 | | | | |
| | | | 180 | | | | |

Note: if the current material is not enough to generate the selected video length, a reminder will be given before the generation, telling user the length of video that the current material is expected to generate, and asking whether to continue.

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| | | | | | Yes | Na | | |

(5) Configuration material search shield time period, the recording of the selected time period will not be used as the material for generating the time-lapse video, user can configuration up to 8 shield time periods.

| Title: | How to Use Time-Lapse Func | Photography tion of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|----------------------------|----------------------------|----------|--------------|-------|-----------|
| Product: | | NVR | | | Page: | 5 of 5 |
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(6) Click "Generate Time-Lapse Photography" and waiting for the video generation complete.

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| Title: | How to Use Time-Laps Fu | e Photography nction of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|----------------------------|--|---------------------|-------------|-------|-----------|
| Product: | | NVR | | | Page: | 6 of 5 |
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| | D Video | Video Production | | | | |
| | ⊖ Smart Search > | Camera No. [D1] Camera 001 - Material Search To 2022-05-29 00 00 00 (iii) | 2022-06-27 23 59 59 | | | |

- Generated.
- (7) You can view and export the video generated this time through "View Recording Result".

| > Video | Video Production | | | | |
|------------------------|--------------------|---------------------|-----------------|------|--|
| ो Picture | Camera No. | [D1] Camera 001 | - | | |
| ⊙ Smart Search > | Material Search To | 2022-05-29 00:00:00 | 2022-06-27 23 5 | 9.59 | |
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(8) Click the playback button to view the generated video.

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| Picture | Camera No. [D1] Camera 001 - | |
| C Smart Search | Material Search To Recording Result | |
| Time-Lapse Photography | Material Search Tr Name Size Play | |
| | Name Size Play Time-Lapise Video TL_D01_20220628144506 mp4 48.84M8 > | |
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| | Export Baok | |

(9) Click "Export" to back up the video to the USB flash disk. The video format can be default/MP4/AVI

| Title: | How to Use Time-Lapse | Photography | Version: | v1.0 | Date: | 2022/7/01 |
|----------|---|---|----------|----------|-------|-----------|
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| Product: | | NVR | | | Page: | 7 of 5 |
| | AcuSense © Video vide © Ficture © Sinart Search → (5) Tree Layer (Pringraphy) | O O |] | ا 🕮 🕹 ال | | |

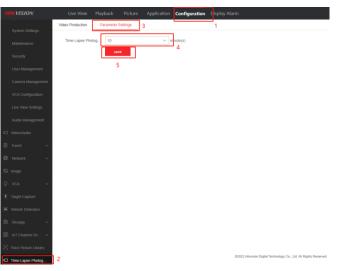
Export Back

Web site

The configuration and usage of the time-lapse Photography function in web side are the same as that of the local side, but the functional location is slightly different. The details are as follows:

- 1. Time-Lapse Photography Shooting Parameters
- (1) Shooting Interval:

Log in to the web of the device and click "Configuration" – "Time-Lapse Photography Quota" – "Parameter Settings" as shown in the following figure. Choose the shooting interval then click "save".

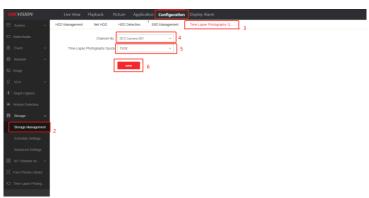


(2) Quota

Click "Configuration" –"Storage management"– "Time-Lapse Photography Quota" as shown in the following figure. The user can select the quota mode of timelapse photography for each channel. After selection, the device will reserve corresponding space in the HDD for storing time-lapse photography materials.

| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|------|-------|-----------|
| Product: | NVR | | | Page: | 8 of 5 |

Note: when the NVR channel enables the ultra HD resolution mode and add 32MP resolution IPC, please select the quota mode as 400G for 24 months if user wants to generate time-lapse photography of two years (only channel 1 can select 400G for 24 months).



2. Create the Time-Lapse Photography video

The path is "configuration" – "Time-Lapse Photography Quota"

| H | IIK VISION | Live View | Play | back | Picture | Applic | ation | Configuration | on Dis | play Alarm | |
|---|-------------------|------------------|-------|------------|-------------|-------------|--------|---------------|-----------|--------------------|---|
| | | Video Production | Pa | rameter Se | ettings | | | | 1 | | |
| | | с | amera | [D1] Can | tera 001 | | ~ | | | | |
| | | Material Search | Tot | | 2022-05-3 | 30 00:00:00 | | | 2022-05-2 | 28 23:59:59 | B |
| | | Material Search | ті | | 06:0 | 00:00 | | | 18:0 | 00:00 | ٩ |
| | | Time-Lapse Vid | eo | 15 | | | ~ | | | | |
| | | | | Shield | Time Period | S | Genera | te Time-Lapse | Vie | w Recording Result | |
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| 0 | Time-Lapse Photog | 2 | | | | | | | | | |

(1) Select the channel that needs to generate time-lapse photography. Currently, the device supports up to 8 channels to generate.

| MIKVISION | Live View Play | back Picture | Application | Configuration | Display Alarm | |
|------------------------|---------------------|----------------------------------|-------------|----------------|-----------------------|----------|
| 🖾 System 🗸 🗸 | Video Production Pa | rameter Settings | | | | |
| C Video/Audio | Camera | [D1] Camera 001 | ^ | | | |
| 🖲 Event 🗸 🗸 | Material Search Tot | [D1] Camera 001 [D2] IPdome | | - 2022 | -06-28 23:59:59 | = |
| Network Y | Material Search Ti | [D3] IPCamera 03 | | - | 18:00:00 | O |
| 🖾 Image | Time-Lapse Video | [D4] IPdome | | | | _ |
| Q VCA V | | [D5] Camera1 [D6] IPCamera 06 | | ite Time-Lapse | View Recording Result | |
| 📳 Target Capture | | [D7] IPCamera 01 | | | | |
| (e) Vehicle Detection | | [D8] Camera 01 | | | | |
| Storage ^ | | | | | | |
| Storage Management | | | | | | |
| Schedule Settings | | | | | | |
| Advanced Settings | | | | | | |
| III IoT Channel Se V | | | | | | |
| 😤 Face Picture Library | | | | | | |
| C Time-Lapse Photog | | | | | | |

(2) Configuration material search total time. The maximum allowable total time is 2

| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|------|-------|-----------|
| Product: | NVR | | | Page: | 9 of 5 |

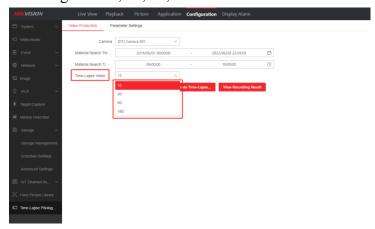
years. If more than 2 years are selected, a prompt " the maximum search time span cannot exceed 2 years " will be given when generating the video



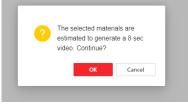
(3) Select material search time for one-day, the default search range is 6-18 o'clock every day. Users can set the time period according to their needs.

| | | | Configuration Display Alarm | |
|-------------------|---------------------|---------------------------|-------------------------------------|----|
| | Video Production Pa | rameter Settings | | |
| | Camera | [D1] Camera 001 ~ | | |
| | Material Search Tot | 2019/05/01 00:00:00 | - 2022/06/28 23:59:59 | |
| | Material Search Ti | 06:00:00 | - 18:00:00 | 0 |
| | Time-Lapse Video | 15 ~ | | |
| | | Shield Time Period S Gene | rate Time-Lapse View Recording Resu | dt |
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| Time-Lapse Photog | | | | |

(4) Select the time-lapse video length. The default video length is 15s. You can also select the video length as 15, 30, 60, and 180s



Note: if the current material is not enough to generate the selected video length, a reminder will be given before the generation, telling user the length of video that the current material is expected to generate, and asking whether to continue.



| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|------|-------|-----------|
| Product: | NVR | | | Page: | 10 of 5 |

(5) Configuration material search shield time period, the recording of the selected time period will not be used as the material for generating the time-lapse video, user can configuration up to 8 shield time periods.

| /ideo/Audio | Camera | [D1] Camera 001 | ~ | | | | |
|--|---|----------------------|--|----------------------|--------|---|---|
| Event 🗸 | Material Search Tot | 2022/05/01 | 00:00:00 - | 2022/06/28 23:59:59 | | | |
| Network ~ | Material Search Ti | 06.00 | .00 | 18:00:00 | ٢ | | |
| mage | Time-Lapse Video | 15 | ~ | | | | |
| VCA ~ | | Shield Time Period S | Generate Time-Lap | ose View Recording I | Result | | |
| arget Capture | | | | | | | |
| Achicle Detection | | | | | | | |
| Storage ^ | | | | | | | |
| Storage Management | | | | | | | |
| Schedule Settings | | | | | | | |
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| loT Channel Se 🗸 | | | | | | | |
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| Face Picture Library | | | | | | | |
| race Picture Library Ime-Lapse Photog nera 001 | ¥ | | | | | | _ |
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| acto Picture Library Ime-Lapore Pholog herea 001 Shield Time Period Time Period2 Time Period2 | d Settings 2022-06-29 00:00:00 2022-06-29 00:00:00 | | | | _ | | × |
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(6) Click "Generate Time-Lapse Photography" and waiting for the video generation complete.

| 🗄 System 🗸 🗸 | Video Production Pa | rameter Settings | | | | | | |
|------------------------|---------------------|----------------------|-------------|----------|-----------------------|---------|----|--|
| Video/Audio | Camera | [D1] Camera 001 | ~ | | | | | |
| 🖹 Event 🗸 🗸 | Material Search Tot | 2022/05/01 00:0 | 00:00 | 2022 | /06/28 23:59:59 | | | |
| 🖨 Network 🗸 🗸 | Material Search Ti | 06:00:00 | | | 18:00:00 | \odot | | |
| Image | Time-Lapse Video | 15 | ~ | | | | | |
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|) Target Capture | | | | | | | | |
| Vehicle Detection | | | | | | | | |
| B Storage ^ | | | | | | | | |
| Storage Management | | | | | | | | |
| Schedule Settings | | | | | | | | |
| Advanced Settings | | | | | | | | |
| 🗉 toT Channel Se 🗸 | | | | | | | | |
| R Face Picture Library | | | | | | | | |
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| Time-Lapse Photog | | | | | | | | |
| Camera 001 | ~ | | | | | | | |
| Time lapse is cre | ating | | | | | | | |
| | | | | | | | 7% | |
| cancel | | | | | | | | |
| eld Time Period S | Generate Time-Lapse | View Recording R | esult | | | | | |
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(7) You can download the video generated this time through "view recording result".

| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|---------|-------|-----------|
| Product: | NVR | Page: | 11 of 5 | | |

Note: the web side downloads videos in MP4 format by default

| | | ack Picture Application (| - | | |
|------------------------|----------------------|-------------------------------|------------------------------|-----------|---|
| 🖽 System 🗸 🗸 | Video Production Par | ameter Settings | | | |
| C Video/Audio | Camera | [D1] Camera 001 V | | | |
| 🖻 Event 🗸 | Material Search Tot | 2022/05/01 00:00:00 | - 2022/06/28 23:59:59 | 8 | |
| O Network ~ | Material Search Ti | 06:00:00 | - 18:00:00 | 0 | |
| ■ Image | Time-Lapse Video | 15 V | | | |
| Q VCA V | | Shield Time Period S Generate | Time-Lapse View Recording Re | esuft | |
| (+) Target Capture | | | | | |
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| 📧 toT Channel Se 🗸 | | | | | |
| S Face Picture Library | | | | | |
| Time-Lapse Photog | | | | | |
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| 001 ~ | | | | | |
| Recording Result | | | | | > |
| File Name | File Size | Operation | | File Path | |
| TL_D01_2022062915 | | | | D | |
| 10_001_2022002910 | 20MB | • | | | |
| e Period S Gene | erate Time-Lapse | View Recording Result | | | |
| | | | | | |

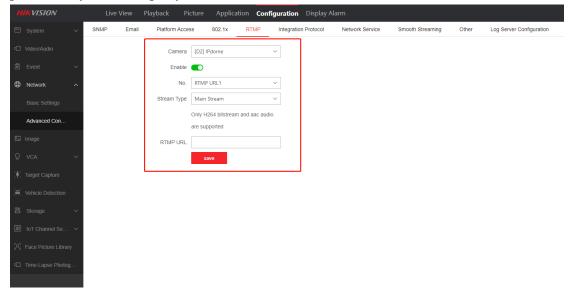
Other Functions of Time-Lapse Photography NVR

Streaming through RTMP protocol

It supports pushing real-time streams through RTMP protocol to 3 platforms at the same time, but customer needs to set up their own RTMP server.

The path to enable RTMP in web site is "Configuration" – "Network"– "Advanced Settings"– "RTMP" as shown in the following figure (it can only be enabled and configured in web site).

Select the type of stream needs to be pushed, input the RTMP streaming URL provided by the third-party RTMP service, and click save.



| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|------|-------|-----------|
| Product: | NVR | | | Page: | 12 of 5 |

Note: Only H.264 video encoding format is supported, and only AAC audio format is supported.

Streaming through HSL

Enable the HSL function in "Configuration" – "Network"– "Advanced Settings"– "Network Service" – "Enable HLS Service" in web site or "Maintenance" – "System Service"– "System Service "– "Enable HLS Push-Stream Service" in local GUI as shown in the following figure.

| HIK | VISION | | Playback Pic | ture Applicat | tion Config | uration Display | Alarm | | | |
|------------------|---------------------|-----------------|-----------------------|---------------------|--------------|----------------------|-----------------|------------------|-------|--------------------------|
| 🖽 s) | stem 🗸 | SNMP Emi | ail Platform Acces | is 802.1x | RTMP | Integration Protocol | Network Service | Smooth Streaming | Other | Log Server Configuration |
| | leo/Audio | | EnableHTTP | | | | | | | |
| Ē E | ent 🗸 | | | EnableHTTPS | | | | | | |
| ⊕ N | stwork ^ | | | Enable HTTP | S Browsing | | | | | |
| В | isic Settings | | | Enable Enhance | | | | | | |
| Ac | wanced Con | | | Enable Stream | m Over TLS | | | | | |
| E2 Im | ige | | Enable SDK Service | | | | | | | |
| Ω vi | × 40 | Certificate Det | ails | | | | | | | |
| (1) Tar | get Capture | | Installed Certificate | | | Delete | | | | |
| (A) Ve | hicle Detection | | Property | | | | | | | |
| 🖻 si | orage 🗸 🗸 | | | | | | | | | |
| 10 | T Channel Se 🗸 | | Enable TLS1.1 | | | | | | | |
| X Fa | ce Picture Library | | Enable TLS1.2 | | | | | | | |
| | ne-Lapse Photog | | EnableRTSP | | | | | | | |
| Const Dates | | | EnableWebSocket | • • | | | | | | |
| | | | Enable IoT Listening | | | | | | | |
| | | | Enable HLS Service | | | | | | | |
| | | Export Certific | ate | | | | | | | |
| | | | | | | | | | | |
| | | | | save | | | | | | |
| Ac | uSense | | <u></u> | | \odot | ۲. | | Þ | | ⊥ 🖑 @ () |
| (i) | System Info | > | | | | | <u> </u> | | | |
| Ē | Log Info | | Enable RTSP | | | | | | | |
| ß | Import/Export | | RTSP Authentication | Туре | digest | - | | | | |
| Ŷ | Upgrade | > | RTSP Digest Algorith | im | MD5 | | | | | |
| 0 | Default | | Enable ISAPI | | | | | | | |
| ₿ | Network | > | Enable HTTP | | | | | | | |
| Q | HDD Operation | > | HTTP Authentication | Туре | digest | - | | | | |
| 0 | System Service | ~ | HTTP Digest Algorith | m | MD5 | ~ | | | | |
| | System Service | | Enable IP Camera O | ccupation Detection | | | | | | |
| | ONVIF | | Enable IOT Monitorin | g | | | | | | |
| | Stream Encryption | | Enable SDK Service | | \checkmark | | | | | |
| | Address Filter | | Enable Enhanced SD | K Service | | | | | | |
| | Double Verification | n f | Enable HLS Push-Str | ream | | | | | | |
| | Buzzer Settings | Ľ | | | | | | | | |
| | More Settings | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | Apply | | | | | | | |

The URL of HSL streaming is:

http://xx.xx.xx/HLS/channel/501/preview.m3u8

xx.xx.xx means the IP of NVR;

| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|---------|-------|-----------|
| Product: | NVR | Page: | 13 of 5 | | |

The meaning of 501 is: 5 refers to the fifth channel, 01 refers to the main stream, and 02 refers to the sub stream

When the network is in good condition, you can access the above URL by using Apple Safari browser directly to get the stream.

Note:

- 1. Only H.264 video encoding format is supported, and only AAC audio format is supported.
- 2. Only the first 8 channels support HSL function.

Notes

- 1. Supports up to 32mp IPC
- 2. It supports 8-channel time-lapse photography function (only the first 8 channels), and can generate time-lapse photography and video with a maximum period of 2 years.
- For multi-channels IPC, only when Encoder Track set to 1 can the Time Lapse Photography, RTMP and HSL function be available.

| | VISION® | Live View F | Playback | Picture | Configu | ration | | | |
|-----------|--------------------------------|---|---------------|------------------------|---------|--------------|-----------------|-----------------------------|-----------|
| Ō | Local | Basic Information | Time Settings | DST RS-232 | RS-485 | VCA Resource | Image Stitching | About | A. Martin |
| | System | | | | | | | | |
| | System Settings Maintenance | Mode Switch Video Output Mode Only when the v | 0 | iorama + ePTZ 💿 | | Ori | - | Divideo | Panorama |
| | Security | Encoder Track | 1 | | ~ | | | | |
| Ø | User Management Network | Advanced Settin | | . Al | | | | | |
| <u>Q.</u> | Video/Audio | Best Stitching Dista | nce 50 | | m | | | | |
| 1 | Image | | | | | | | | |
| Ë | Event | | | R | | | | | |
| | Storage | | 1 | R = Best Stitching Dis | tance | | | | |
| | | P Sour | _ | | | | | | |

- 4. The time required to generate the time-lapse photography video is linearly related to the video length selected by the user. For example, if it takes 1 minute to generate a 15 second video, then it will takes about 12 minutes to generate a 180 second video.
- 5. When generate the time-lapse photography video on the web, the live view and playback on local GUI will be unavailable and keep in a black screen state. Therefore, if the customer needs to generate a video with a long time or must be able to live view and playback in real time, it is recommended to generate it

| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|------|-------|-----------|
| Product: | NVR | | | Page: | 14 of 5 |

on local GUI. While generating it on local GUI, customer can live view or playback in web site.

6. If it is determined that there are multiple days of videos in the HDD of the device, and the parameter configuration meets the requirements, and there is still a prompt shows there is insufficient material when generating videos, you can try to repair the database to solve the issue.

| HIKVISION | | Live View | Playback | Picture | Application | Configuration | Display Alarm |
|-------------|---|-----------------|-------------|----------|-------------------|-----------------|--------------------|
| Local | | HDD Management | Net HDD | HDD De | tection SS | D Management | Time-Lapse Photogr |
| ∃ System | ~ | ැබූ Set 🔓 Forma | at 💽 Rebuil | ld Video | 8 Rebuild All Dat | a | |
| Video/Audio | | HDD No. | | Capacity | | Synchronization | State Free : |
| Event | ~ | ✓ 3 | | 931.51GB | | Normal | 787.0 |

- 7. If the actual resolution of the channels are less than 4MP, the material will use the actual resolution to generate time-lapse photography video. If the actual resolution of the channels are higher than 4MP, then the resolution of the material used will be reduced to 4MP by default when generating time-lapse photography video.
- 8. The time-lapse photography video will be regenerated every time according to the selected parameters, and each generation will overwrite the previous video, so the historically generated video cannot be queried, and the currently generated video will also become invalid after the device rebooted.

| Title: | How to Use Time-Lapse Photography Function of NVR | Version: | v1.0 | Date: | 2022/7/01 |
|----------|--|----------|------|-------|-----------|
| Product: | NVR | | | Page: | 15 of 5 |

