

How to set Recording & Snapshot plan?

TAGS:

Video, footage, recording, snapshot, event recording, manual recording, scheduled recording, motion detection recording, alarm triggered recording, holiday recording, recording plan, recording type, motion detection snapshot, alarm triggered snapshot, snapshot type

Answer:

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Note: This function, management page may vary with models. Please see actual Web interface for details.

Note: Make sure you have upgraded the camera before configuration.

Set Video parameters

1. Click Camera > Encoding.

Select Camera	D1(IP Camera 19)	
Storage Mode	Main Stream	
Capture Mode	2560*1440@25	
Stream Type	Normal	Sub Stream
Video Compression	H265	H264
Resolution	2560*1440	1280*720(720P)
Bitrate Type	CBR	CBR
Bit Rate(Kbps)	1536	1024
Range	128~16384(Kbps)	128~16384(Kbps)
Frame Rate(fps)	10	12
Image Quality	Highest	Highest
I Frame Interval	50	24
I Frame Range	10~250	10~250
Smoothing		
Audio Stream	<input type="checkbox"/>	
U-Code	Off	Off

Copy Apply Exit

2. Select the camera and then edit settings as needed. Some parameters are described in the table below.

Parameter	Description
Storage Mode	<ul style="list-style-type: none"> Main Stream Sub Stream <p>By default, the main stream is used for storage.</p>
Capture Mode	<p>Combinations of resolutions and frame rates.</p> <p>Note: <i>This parameter is effective only when the camera is connected to the NVR via the private protocol.</i></p>
Stream Type	<ul style="list-style-type: none"> Normal: main stream that is intended for scheduled recording. Event: main stream that is intended for recording triggered by events such as alarm inputs or motion detection alarms. Sub Stream: low resolution video that is intended for local or remote real-time monitoring.
Video Compression	<p>Video compression standard, for example, H.264, H.265.</p> <p>The listed options depend on the standards supported by the camera.</p>
Resolution	Image resolution.
Bitrate Type	<ul style="list-style-type: none"> CBR: Constant Bit Rate (CBR) is used to maintain a specific bit rate by varying the quality of video streams. CBR is preferred when limited bandwidth is available. The disadvantage is that video quality will vary and may decrease significantly with increased motion in the scene. VBR: When using Variable Bit Rate (VBR), video quality is kept as constant as possible, at the cost of a varying bit rate, and regardless of whether or not there is motion in the image. VBR is ideal when high quality is a requirement, especially when there is motion in the picture.
Bit Rate(Kbps)	Number of bits transferred per second. Select a value or select Custom and then set a value as needed.
Range	Bit rate range. Currently the range is fixed.
Frame Rate(fps)	Number of frames per second.
Image Quality	This parameter is effective only when Bitrate Type is set to VBR . 9 levels are provided.
I Frame Interval	Number of frames between two adjacent I frames.
I Frame Range	Range of I frames. Currently the range is fixed.
Smoothing	Use the slider to control the sudden increase of bit rate.
Audio Stream	Enable or disable audio stream.

Parameter	Description
U-Code	The advanced mode achieves higher compression ratios.

- (Optional) Click **Copy** to apply some current settings such as bit rate and frame rate to other cameras.
- Click **Apply** to save the settings.

Set Snapshot parameters

Set resolution, image quality and snapshot interval for snapshots taken according to schedule or triggered by an event.

- Click **Camera > Snapshot**.
- Set the parameters as needed.

Select Camera	D1(IP Camera 19) ▾	
Snapshot Type	Schedule	Event
Resolution	704*576(4CIF) ▾	704*576(4CIF) ▾
Image Quality	Medium ▾	High ▾
Snapshot Interval	5s ▾	2s ▾

- Click **Apply** to save the settings.

Note: Scheduled snapshot uses the Normal type of schedule. Event-triggered snapshot is triggered by an event such as an alarm input and a motion detection alarm. Settings effective to event-triggered snapshot also apply to manual snapshot.

Note: Snapshot interval is the length of time between two snapshots.

Draw or Edit a Schedule

- Click **Storage > Recording**.
- Select the camera from the list. Schedule is enabled by default. If it is disabled, select to enable it.
- Set **Pre-Record** and **Post-Record** as needed.
- (Applicable to some NVR models) To save a redundant copy of recordings, select **Enable Redundant Recording** and configure a redundant hard disk (refer *How to set Disk Management* for details).

Camera	D1
Enable Schedule	<input checked="" type="checkbox"/>
Pre-Record(sec)	10
Post-Record(sec)	60
Enable Redundant Recording	<input type="checkbox"/>

(Note: Click a color on the right and then draw the schedule.)

Copy Apply Exit

5. Click a color icon on the right under the **Edit** button and then draw a schedule on the left. You may also click **Edit** and set schedule details in the **Edit Schedule** window.

Note: When editing a schedule, you may clear the **All Day** check box and set up to eight different periods for each day. To apply the settings to other day(s), select the day(s) right to **Copy To**.

6. Click **Apply**.

7. (Optional) Click **Copy** to apply the same settings to other cameras.

Set Scheduled Recording and Snapshot

Scheduled recording records video according to the set schedule and it is different from manual recording and alarm-triggered recording. A 24×7 recording schedule is enabled by default and may be edited as needed to record video in specified periods only.

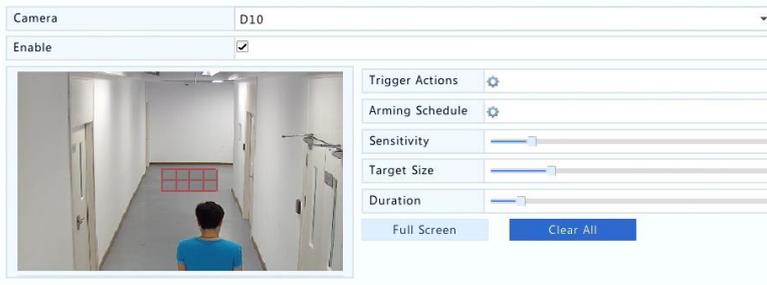
Follow the step in *Draw or Edit a Schedule* above. Make sure the schedule type is **Normal**. The set schedule appears in blue, which stands for scheduled recording.

Configure scheduled snapshot under **Storage > Snapshot**. Make sure the schedule type is **Normal**.

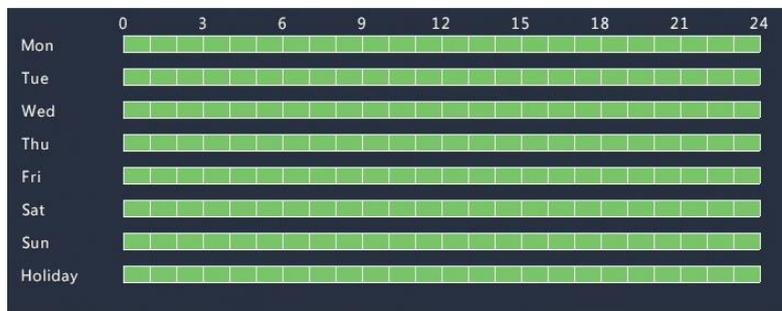
Set Motion Detection Recording and Snapshot

Set Motion Detection Recording

1. Click **Alarm > Motion**.
2. Select the camera from the list, and then select the check box to enable motion detection.
3. In the preview window on the left side, click and drag your mouse to specify a motion detection area (red grid). Use the sliders to adjust detection sensitivity, target object size, and duration.



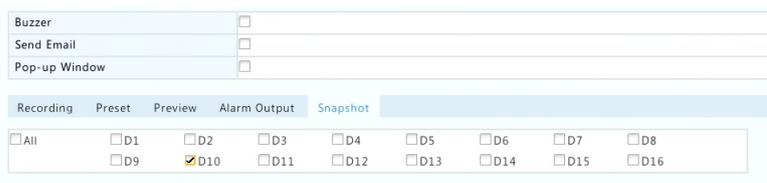
4. Configure motion detection recording: click  right to **Trigger Actions**, click the **Recording** tab, select the desired camera, and then click **OK**.
5. (Optional) Configure an arming schedule (time when actions will be triggered): click  right to **Arming Schedule** and then set time periods as needed.
6. Set a recording schedule under **Storage > Recording**. Follow the steps in *Draw or Edit a Schedule* above. Make sure the schedule type is **Motion**. The set schedule appears in green, which stands for motion detection recording. The following figure shows an example.



Set Motion Detection Snapshot

Motion detection snapshot is similar to motion detection recording. Follow the steps 1-3 in *Set Motion Detection Recording* above to enable and configure motion detection alarm first.

1. Click **Alarm > Motion**, click  right to **Trigger Actions**. In the window displayed, click the **Snapshot** tab, select the desired camera, and then click **OK**.



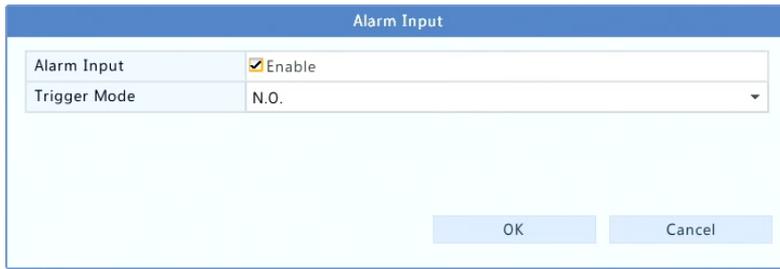
2. Configure snapshot schedule under **Storage > Snapshot**. Make sure the schedule type is **Motion**.

Set Alarm Triggered Recording and Snapshot

Set input alarms to trigger recording and snapshot. Refer to *How to set Alarm Input and Output* for details.

Alarm Triggered Recording

1. Click **Alarm > Input/Output > Alarm Input**.
2. Set alarm input: click  for the desired camera. In the window displayed, select **Enable**, select N.O. (normally open) or N.C. (normally closed) trigger mode, and then click **OK**.



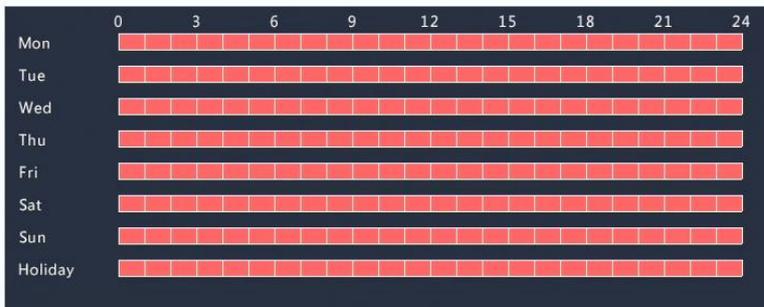
The 'Alarm Input' dialog box contains the following fields:

Alarm Input	<input checked="" type="checkbox"/> Enable
Trigger Mode	N.O.

Buttons: OK, Cancel

Note: To apply the same settings to other camera(s), click **Copy** and then select the desired camera(s).

3. Set alarm triggered recording: click  under **Trigger Actions**. In the window displayed, click the **Recording** tab, select the desired camera, and then click **OK**.
4. Set a schedule under **Storage > Recording**. Follow the steps in *Draw or Edit a Schedule* above. Make sure the schedule type is **Alarm**. The set schedule appears in red, which stands for alarm-triggered recording. The following shows an example.



Alarm Triggered Snapshot

Alarm triggered snapshot is similar to alarm triggered recording. Follow the steps 1-3 in *Set Motion Detection Recording* above to enable and configure motion detection alarm first.

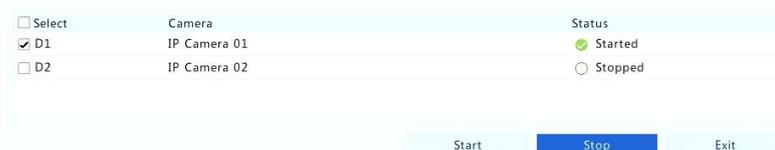
Set alarm triggered snapshot: Click  under **Trigger Actions**. In the window displayed, click the **Snapshot** tab, select the desired camera, and then click **OK**.

1. Click **Storage > Snapshot**. Follow the steps in *Draw or Edit a Schedule above*. Make sure the schedule type is **Alarm**.

Set Manual Recording and Snapshot

Manual Recording

Record video manually by clicking  on the window toolbar. Alternatively, click **Manual > Recording**, select the desired camera and then click **Start**. To stop manual recording, click  on the window toolbar, or select the camera and then click **Stop** under **Manual > Recording**.



The 'Manual Recording' dialog box contains the following fields:

Select	Camera	Status
<input checked="" type="checkbox"/>	D1 IP Camera 01	<input checked="" type="radio"/> Started
<input type="checkbox"/>	D2 IP Camera 02	<input type="radio"/> Stopped

Buttons: Start, Stop, Exit

Manual Snapshot

Manual snapshot is similar to manual recording. Click **Manual > Snapshot**, select the desired

camera, and then click **Start**. Click **Stop** to stop.

Set Holiday Recording and Snapshot

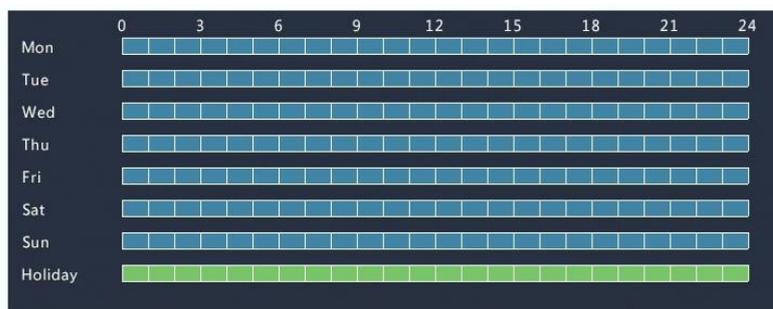
Holiday recording and snapshot allows you to specify certain time periods as holidays for scheduled recording and snapshot. First you specify certain date(s) as holidays, and then configure recording or snapshot schedules on these days.

Holiday Recording

1. Click **System > Holiday**.
2. Click the **Add** button in the lower right corner. The **Holiday** window is displayed. Complete the settings including the holiday name, start and end dates. By default a holiday is enabled when added and does not repeat.

Holiday Name	NEW YEARS DAY	
Status	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Disable
Repeat	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
Mode	<input checked="" type="checkbox"/> By Day	<input type="checkbox"/> By Week
Start Date	01	01
End Date	01	01

3. Click **OK**. The holiday appears in the list.
4. Click **Storage > Recording** and then set a recording schedule as described in *Draw or Edit a Schedule* above. Make sure **Holiday** is selected in the **Select Day** drop-down list. In the following example, motion detection recording is enabled on the set holiday.



Holiday Snapshot

Holiday snapshot is similar to holiday recording. First, set holidays under **System > Holiday**, and then configure a snapshot schedule under **Storage > Snapshot**. Set a snapshot schedule as described in *Scheduled Recording* above. Make sure **Holiday** is selected from the **Select Day** drop-down list.

Set Other Recording and Snapshot Types

Other recording and snapshot types:

- Event: Including the types below and VCA. Any of these types will trigger event recording/snapshot.
- Motion detection AND alarm triggered (M and A for short): recording or snapshot is triggered only when a motion detection alarm AND an input alarm occur simultaneously.

- Motion detection OR alarm triggered (M or A for short): recording or snapshot is triggered when a motion detection alarm OR an input alarm occurs.

When you choose an Event type of recording or snapshot, make sure you have enabled the corresponding alarm function and configured alarm-triggered recording/snapshot. The configuration steps are similar. Refer to *Motion Detection Recording and Snapshot* for more details.