HIKVISION

Disk Calculator Software

User Manual

<u>**User Manual**</u>

About this Manual

This Manual is applicable to Disk Calculator Software.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (http://overseas.hikvision.com/en/).

Please use this user manual under the guidance of professionals.

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Contents

1 Introduction

1.1 Overview

The Disk Calculator software can calculate the recording time value when given the disk space value and vice versa. Using the software, you are also allowed to add the device with parameters including channel number, device type, bitrate type (constant bitrate and variable bitrate), video standard, resolution, frame rate, encoding mode, and recommended bitrate. After adding the devices, you can calculate the disk space or the recording time.

1.2 System Requirements

Operating System: Microsoft Windows 10/Windows 8/Windows 8.1/Windows 7/Windows 2008 32/64-bit,
Windows XP/Windows 2003   32-bit
CPU: Intel Pentium IV @ 3.0 GHz or above
RAM: 1G or above
Video Card: RADEON X700 Series
Display: 1024*768 resolution or above

1.3 Conventions

In order to simplify the description, we define the "Disk Calculator software" as "software" in the following chapters.
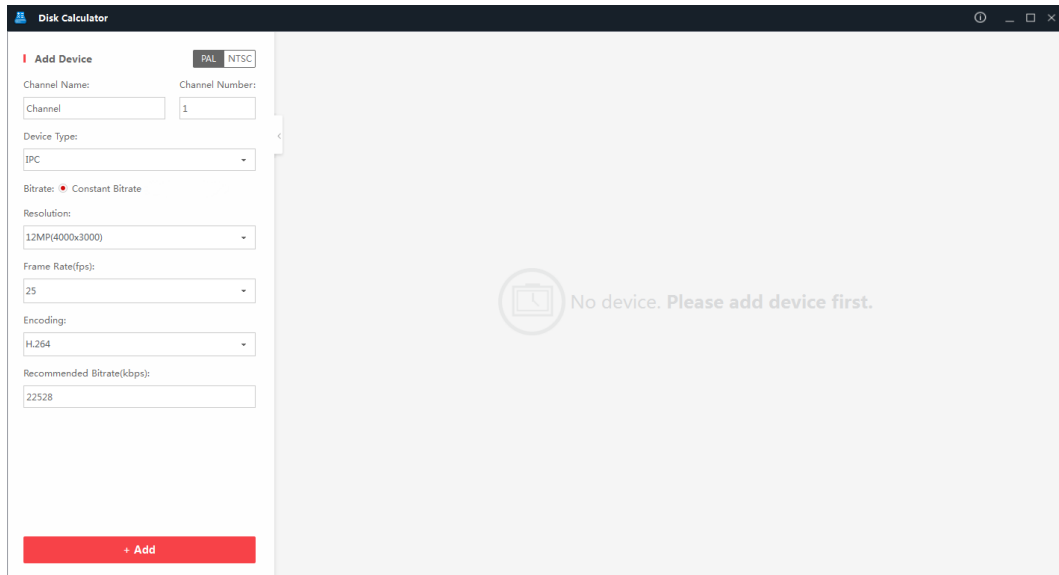
1.4 Version Information

After installing the software, click on the desktop to run the software.

Click the button in the upper-right corner to view the version information and you can click **User Manual** to get the User Manual of the software.

2 Operating Disk Calculator Software

After launching the Disk Calculator software, the main interface of the software is shown below:

2.1 Adding the Device

Purpose:
Before any operation, you need to add the device to the channel list. The bitrate type contains constant bitrate and variable bitrate which are suitable for different recording environments.

● Constant bitrate provides constant bitrate of all the segments.
● Variable bitrate files vary the amount of output data per time segment. Variable bitrate allows a higher bitrate (and therefore requires more storage space) to be allocated to the more complex segments of media files while less space is allocated to less complex segments.

You can select either constant bitrate or variable bitrate according to the needs.

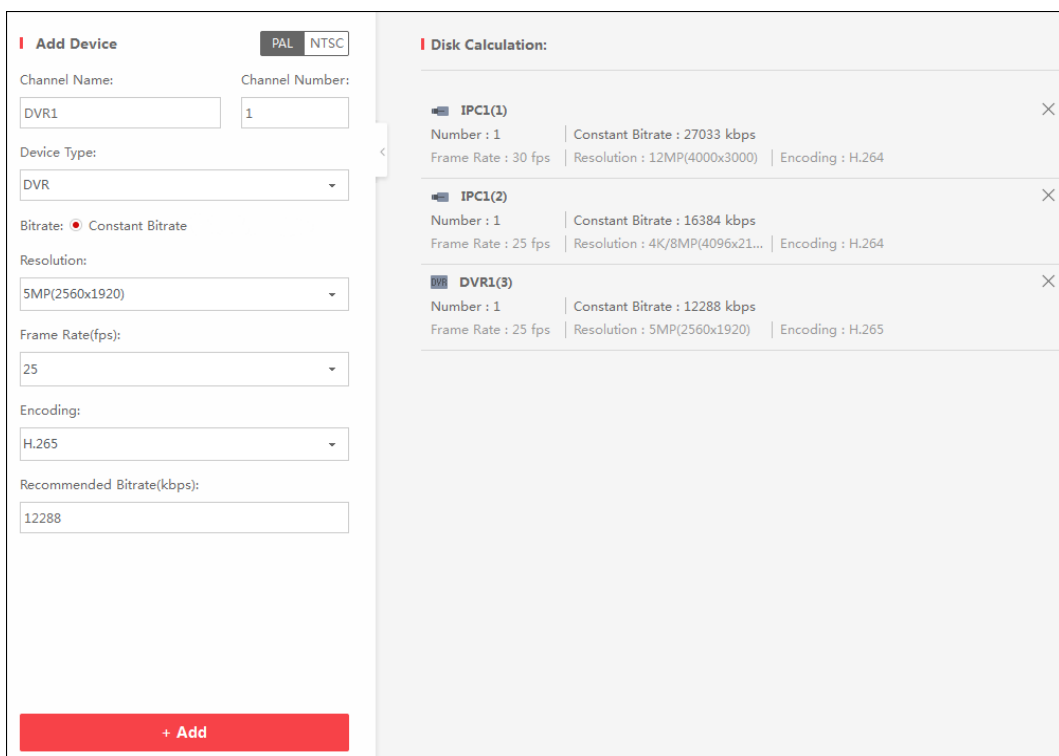The software supports only DVRs and IPCs.

2.1.1 Constant Bitrate

If you select constant bitrate as the bitrate type, you can perform the following steps to add the device manually.
Steps:

1. Input the channel name and channel number.
2. Select the device type. The device type can be selected as IPC or DVR.
3. Select the bitrate type as constant bitrate by checking the radio button.
4. Configure device parameters including the resolution, frame rate and encoding type.
   The recommended bitrate will be displayed after the resolution and frame rate are set.
5. You can set video standard as PAL or NTSC at the top as shown below:

6. Click **+Add** button to add the device. The added device will be displayed on the channel list.

7. You can click ✕ to delete the channel.
   You can also click **Clear** button to clear all the added channels.

2.1.2 Variable Bitrate

If you select variable bitrate as the bitrate type, you are required to import the scenes first according to your actual needs.
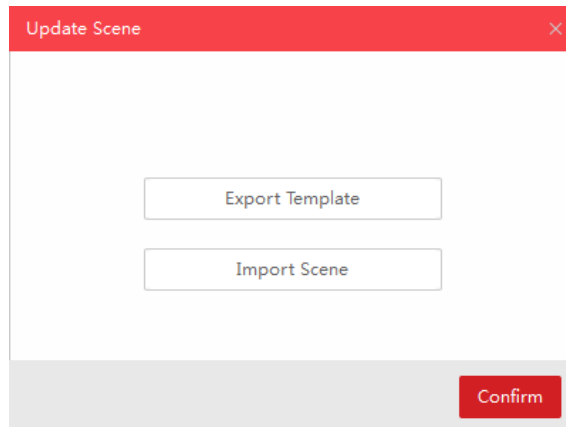
Importing Scene

Perform the following steps to import the scenes.
Steps:

1. Click the ⊡ button in the upper-right corner and click **Update Scene** to enter

the Update Scene interface.

2. Click **Export Template** and save the pre-defined template (CSV file) on your PC.
3. Open the exported template file and it provides four scene examples.
   Input the required information of the scene to be added on the corresponding column.

   ![NOTE]

   You can send the template to out technical engineers, and our engineers can input the parameters in the template based on your actual needs.
   - **Scene:** Edit a name for the scene as you want.
   - **Encoding Mode:** The encoding mode of the video.
   - **Resolution:** The resolution of the video.
   - **Recommended Bitrate(kbps):** Input the recommended bitrate based on other parameters and the actual scene.
   - **Picture Path:** The local path of the scene picture on the PC. For example, *D:\secne\parking lot 1.png*.

     ![NOTE]

     Only *.png format picture is supported.
4. Click **Import Scene** and select the configured template file to import the scenes into the software.

   ![NOTE]

   You should restart the software for the scene importing to take effect.
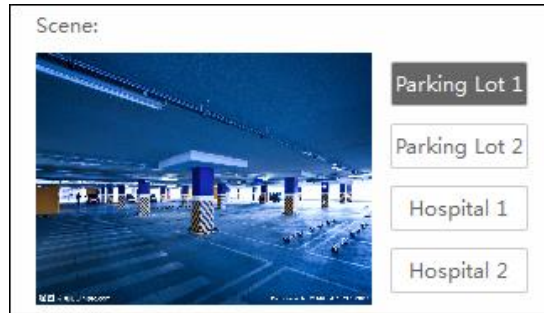
Adding Device

After importing the scene and restarting the software, you can add the device to the channel list manually.
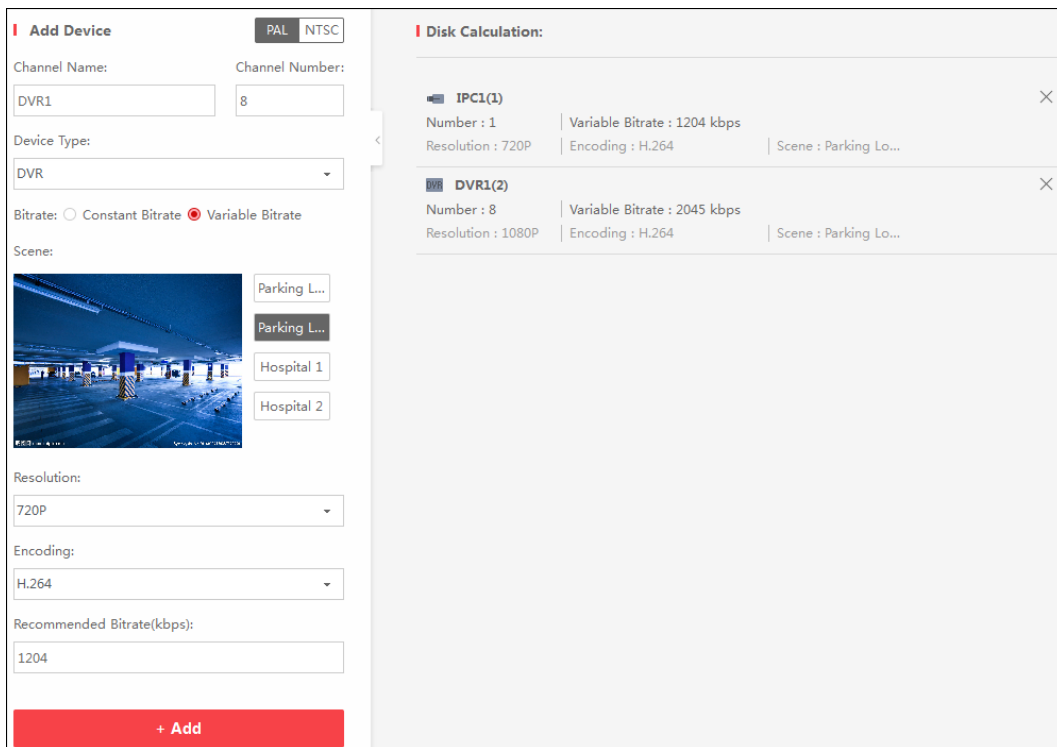***Steps:***
1. Input the channel name and channel number.
2. Select the device type. The device type can be selected as IPC or DVR.
3. Select the bitrate type as variable bitrate by checking the radio button.
4. The imported scenes will be displayed in the Scene area.

Click the scene name to select the scene. The selected scene's parameters including resolution, encoding mode, recommended bitrate will be shown below.

8. Click **+Add** button to add the device. The added device will be displayed on the channel list.

9. You can click ✕ to delete the channel.
   You can also click **Clear** button to clear all the added channels.

2.2 Calculating

Purpose:

The main function of the software is to calculate the recording time value when given the disk space value and vice versa.
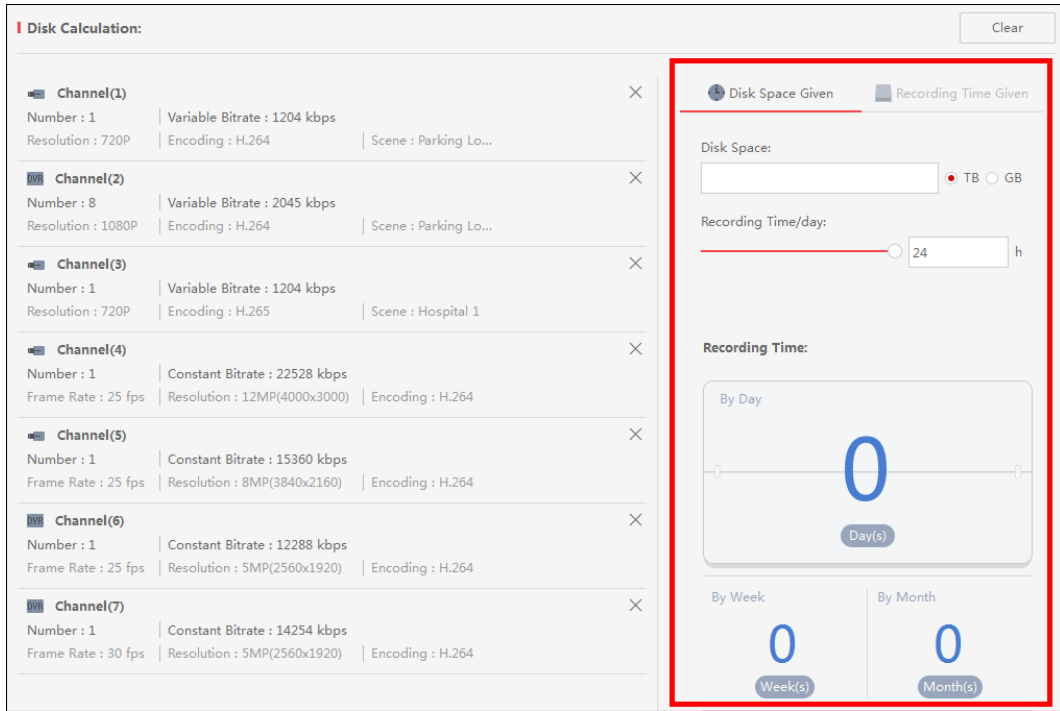
Before you start:

The device is required to be added to the camera list.
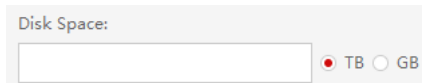
2.2.1 Calculating the Recording Time

Perform the following steps to calculate the recording time when disk space is given.
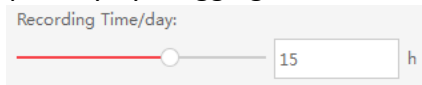*Steps:*
1. Click **Disk Space Given** tab, and the calculating interface is shown as follows:

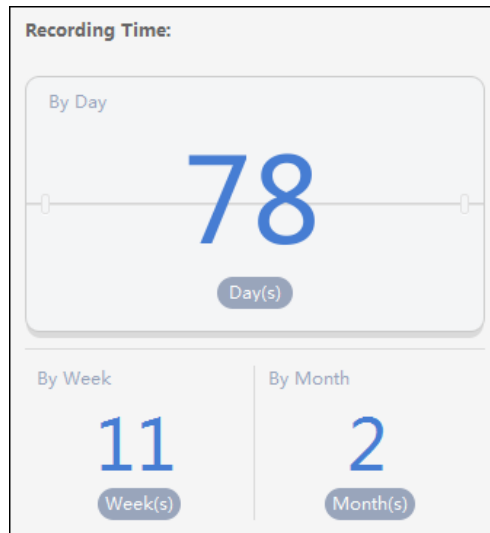2. Input the known disk space in the Disk Space text field with the TB or the GB for the unit.

3. Set the recording time per day by dragging the ◯ button.

   Notes:
   ● The disk space value you entered should be the available storage space of the storage device.
   ● The unit of recording time includes month, week and day, assuming that each month has 30 days and each day has 24 hours.
   ● The value of record time per day is 24 hours by default.
4. After setting the disk space and the recording time per day, the results will be calculated automatically and will be displayed in the Recording Time panel as shown below:
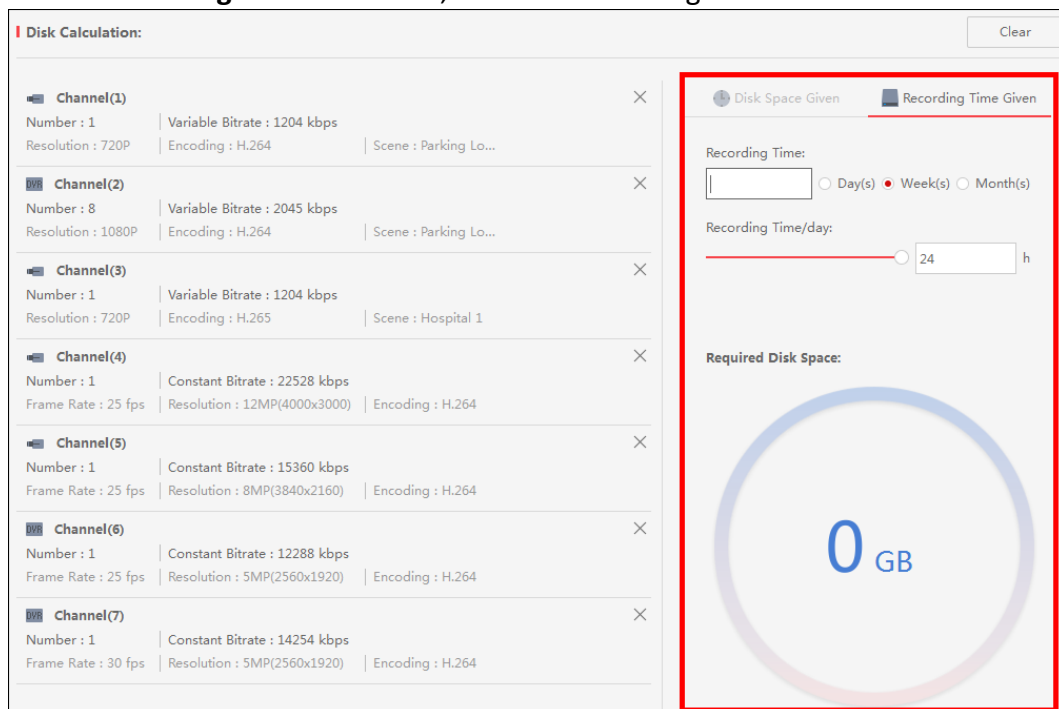
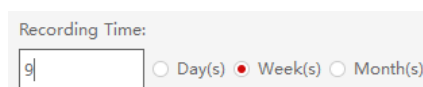## 2.2.2 Calculating the Disk Space

Perform the following steps to calculate the disk space needed when recording time is given.
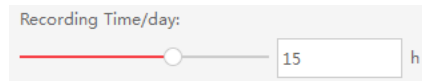
Steps:

1. Click **Recording Time Given** tab, and the calculating interface is shown as follows:
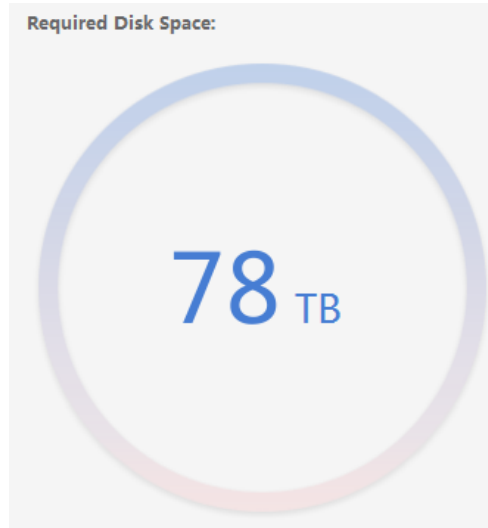

2. Input the known recording time in the recording time text field with the month, the week or the day for the unit.

3. Set the record time per day, and the default value is 24 hours.

Recording Time/day:

15   h

4. After setting the recording time and the recording time per day, the results will be calculated automatically and will be displayed in the Required Disk Space panel shown below:

Required Disk Space:

78 TB

0400001050916

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