User Manual of the Disk Calculator Software (V3.0) Thank you for purchasing our product. This manual applies to Disk Calculator software, please read it carefully for the better use of this software. The contents in this manual are subject to change without notice.

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# **Chapter 1 Introduction**

### 1.1 Overview

The Disk Calculator software can be used to calculate the recording time when the disk space is given and calculate the disk space when the recording time is given. In the software, you are also allowed to configure the device parameters including device type, video standard and channel number, and the channel parameters including image quality, resolution, frame rate and bitrate. The software displays the recommended bitrate after resolution and frame rate are selected for the configuration.

## **1.2 System Requirements**

Operating System: Microsoft Windows XP / Windows 2003 32-bit, Windows 7 / Windows 2008 32-bit or 64-bit CPU: Intel Pentium IV 3.0 @ 3.00 GHz or above RAM: 512M or above 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 successfully, run the software and click About to view the version information of the software.

# **Chapter 2 Adding the Device**

#### Purpose:

Before any operation, you need to add the device to the channel list. The software provides three ways for adding the device: adding manually, adding online devices and importing from client. The main interface of the software is shown below:

<u>E</u>	Disk Calculator	_ <b>-</b> ×
Ealculate 👔 Help		
Channel Configuration		Calculate All
Channel List 🖶 Add Manually 🖉 Modify Channel	X Delete Channel Show Online Device Minort From Client	Disk Space Given Recording Time Given
Device Type Channel Name Image Quality	Resolution Frame Rate Bitrate Recommended Bit	Disk Space: TB = GB Calculate All Recording Time: Month = Week = Day
Video Standard: • PAL	NISC	Record Time Per day 24 Hour

#### Notes:

- 1. The software supports only DVRs and IPCs.
- 2. Up to 1024 channels can be added to the channel list.
- 3. The client refers to iVMS-4200 client software.

### 2.1 Adding Manually

Perform the following steps to add the device manually.

Steps:

1. Click Add Manually button, and the Add Channel dialog box pops up.

	Add Channel
Channel	
Channel Number:	1
Channel Prefix:	Channel
Configuration	
Device Type:	DVR
Image Quality:	Level 1 (best)
Resolution:	4CIF 🗸
Frame Rate:	25 ~
Bitrate:	3072
Recommended Bitrate:	3072
	Add Channel>> Cancel

2. Input the channel number and you can also set the channel prefix as desired by checking the

Channel Prefix: checkbox.

- 3. Configure channel parameters including the device type, image quality, resolution, frame rate and bitrate. The recommended bitrate will be displayed after the resolution and bitrate are set.
- 4. Click **Add Channel** button to add the device.
- 5. Click **Cancel** button to exit the dialog box. And the device will be displayed on the channel list.

Æ				Disk C	alculator			>
E Calcul	ate 🥡	Help						
Channel Configu Channel List ඈ	ration Add Manually	Modify Channel	🗶 Delete Channe	el 📄 Show O	nline Device	Magnet From Client	Calculate All Disk Space Given Recording Tim	e Given
Device Type	Channel Name	Image Quality	Resolution	Frame Rate	Bitrate	Recommended Bit		
DVR	Channel 1	Level 1 (best)	4CIF	25	3072	3072	Disk Space:	
DVR	Channel 2	Level 1 (best)	4CIF	25	3072	3072		тв
DVR	Channel 3	Level 1 (best)	4CIF	25	3072	3072	-	GB
DVR	Channel 4	Level 1 (best)	4CIF	25	3072	3072		00
DVR	Channel 5	Level 1 (best)	4CIF	25	3072	3072	Calculate All	
DVR	Channel 6	Level 1 (best)	4CIF	25	3072	3072	Concentre / with	
DVR	Channel 7	Level 1 (best)	4CIF	25	3072	3072	Recording Time:	
DVR	Channel 8	Level 1 (best)	4CIF	25	3072	3072		
DVR	Channel 9	Level 1 (best)	4CIF	25	3072	3072		Month
DVR	Channel 10	Level 1 (best)	4CIF	25	3072	3072	=	Week
DVR	Channel 11	Level 1 (best)	4CIF	25	3072	3072	=	Dav
DVR	Channel 12	Level 1 (best)	4CIF	25	3072	3072		50,
DVR	Channel 13	Level 1 (best)	4CIF	25	3072	3072		
DVR	Channel 14	Level 1 (best)	4CIF	25	3072	3072		
DVR	Channel 15	Level 1 (best)	4CIF	25	3072	3072		
DVR	Channel 16	Level 1 (best)	4CIF	25	3072	3072		
Video Standard:	•	PAL	○ NTSC				Record Time Per day. 24	Hour

## 2.2 Adding Online Devices

Perform the following steps to add online devices.

#### Steps:

1. Click **Show Online Device** button and the active online devices within the same subnet with the software will be displayed on the list.

		Shov	v Online Devices			×
You can click Add Channel	and drag to select button to add all c	t multiple devices a hannels of the dev	and then click ices to the channe	l list.		
IP Address 🛛	Port	Device Serial No.	Version	Status		
172.6.23.63	8000	DS-6401HD01	V3.2.0build 12	Logged in		
172.6.23.72	8000	DS-7316HI-ST	V2.0.4build 12	Logged in		
172.6.23.176	8000	DS-2CD8153F	V4.0.1build 12	Logged in		
					Login	Add Channel>>

Notes:

- 1) The software will log in the online devices automatically by the user name of *admin* and the password of *12345*.
- You are also allowed to log in the device manually: Select the device and click Login button. And then input the user name and password of the selected device and click Confirm button.

	Login
User Name:	
	Confirm Cancel

2. Click to select the device in the device list and then click **Add Channel** button to add the selected device.

	Show Online Devices ×									
You can click Add Channel	You can click and drag to select multiple devices and then click Add Channel button to add all channels of the devices to the channel list.									
IP Address 🛛 🖓	Port	Device Serial No.	Version	Status						
172.6.23.63	8000	DS-6401HD01	V3.2.0build 12	Logged in						
172.6.23.72	8000	DS-7316HI-ST	V2.0.4build 12	Logged in						
172.6.23.176	8000	DS-2CD8153F	V4.0.1build 12	Logged in						
1										
					Login	Add Channel>>				

*Note:* You can click and drag to select multiple devices and then click **Add Channel** button to add all channels of the devices to the channel list.

3. Click the icon is to close the Show Online Devices interface. And the device added will be displayed on the channel list.

<u>E</u>				Disk C	alculator		- c	×
🚨 Calcula	ite 🥡	Help						
Channel Configur	ation						Calculate All	
Channel List 🚭	Add Manually	Modify Channel	Delete Chann	nel 🛛 💼 Show O	nline Device	Import From Client	Disk Space Given Recording Time Given	
Device Type	Channel Name	Image Quality	Resolution	Frame Rate	Bitrate	Recommended Bit		٦
DVR	172.6.23.72_1	Level 3	2CIF	25	1024	1024	Disk Space:	
DVR	172.6.23.72_2	Level 3	2CIF	25	1024	1024	ТВ	
DVR	172.6.23.72_3	Level 3	2CIF	25	1024	1024	GB	
DVR	172.6.23.72_4	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_5	Level 3	2CIF	25	1024	1024	Calculate All	
DVR	172.6.23.72_6	Level 3	2CIF	25	1024	1024	_	
DVR	172.6.23.72_7	Level 3	2CIF	25	1024	1024	Recording Time:	
DVR	172.6.23.72_8	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_9	Level 3	2CIF	25	1024	1024	Month	
DVR	172.6.23.72_10	Level 3	2CIF	25	1024	1024	= Week	
DVR	172.6.23.72_11	Level 3	2CIF	25	1024	1024	= Day	
DVR	172.6.23.72_12	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_13	Level 3	2CIF	25	1024	1024		-
DVR	172.6.23.72_14	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_15	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_16	Level 3	2CIF	25	1024	1024		
IPC	172.6.23.176_1	Level 1 (best)	4CIF	25	2048	2048		
Video Standard:	• F	PAL					Record Time Per day: 24 Ho	Jr

## 2.3 Importing From Client

Before you start:

The database file "NetSys.db" needs to be exported from the iVMS-4200 client software. For detailed information, please refer to *iVMS-4200 Client Software User Manual*.

Perform the following steps to import and add the device from client software.

#### Steps:

1. Click **Import From Client** button, and the Import From Database interface shows up as follows:

			Impo	rt From Database	•	×
Device N	ame $\nabla$	IP Address	Port	Status		
Database	Path:				Add Channel>>	Cancel
						Cancer

2. Click the icon and select the path of the database file exported from client software.



3. Click **Open** button to open the database file and close the Select Database window.



4. Click **Load** button to load the database file and you can check the status of the devices on the list.

		Impo	rt From Database		×
Device Name	IP Address	Port	Status		
IPC	172.6.23.176	8000	Not Imported		
73	172.6.23.72	8000	Not Imported		
91	172.6.23.196	8000	Not Imported		
Database Path:	F:/database/NetSy	s.db			Loap
				Add Channel>>	Cancel

5. Click to select the device and then click **Add Channel** button to add the channels of the selected device to the channel list.

		Impo	rt From Database		×
Device Name $\overline{\bigtriangledown}$	IP Address	Port	Status		
IPC	172.6.23.176	8000	Import Succeeded		
73	172.6.23.72	8000	Not Imported		
91	172.6.23.196	8000	Not Imported		
Database Path:	F:/database/NetSys	s.db			Load
				Add Channel>>	Cancel

6. Click **Cancel** button to exit the Import From Database interface and the device is added to the channel list shown below:

Æ				Disk C	alculator		
Calcul:	ate 🥡	Help					
Channel Configu	ration						Calculate All
Channel List 🕂	Add Manually	Modify Channel	Delete Chann	el 📄 Show O	nline Device	Import From Client	Disk Space Given Recording Time Given
Device Type	Channel Name	Image Quality	Resolution	Frame Rate	Bitrate	Recommended Bit	
IPC	172.6.23.176_1	Level 1 (best)	4CIF	25	2048	2048	Disk Space:
DVR	172.6.23.72_1	Level 3	2CIF	25	1024	1024	ТВ
DVR	172.6.23.72_2	Level 3	2CIF	25	1024	1024	= GB
DVR	172.6.23.72_3	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_4	Level 3	2CIF	25	1024	1024	Calculate All
DVR	172.6.23.72_5	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_6	Level 3	2CIF	25	1024	1024	Recording Time:
DVR	172.6.23.72_7	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_8	Level 3	2CIF	25	1024	1024	Month
DVR	172.6.23.72_9	Level 3	2CIF	25	1024	1024	= Week
DVR	172.6.23.72_10	Level 3	2CIF	25	1024	1024	= Day
DVR	172.6.23.72_11	Level 3	2CIF	25	1024	1024	23,
DVR	172.6.23.72_12	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_13	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_14	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_15	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_16	Level 3	2CIF	25	1024	1024	
Video Standard:	• F	PAL					Record Time Per day. 24 Hour

# **Chapter 3 Channel Configuration**

#### Purpose:

The software supports configuration of the channels on the channel list. You can configure the device type, image quality, resolution, frame rate and bitrate. The video standard is also selectable.

#### Before you start:

The device needs to be added to the channel list for channel configuration. You can select the video standard as PAL or NTSC at the bottom of main interface as shown below:



#### Steps:

1. Select the channel on the channel list and click **Modify Channel** button, or just double-click the channel on the list. The Modify Device dialog box pops up shown below:

Modify Device								
Configuration		-						
Device Type:	IPC v							
Image Quality:	Level 1 (best)							
Resolution:	4CIF 🗸							
Frame Rate:	25 🗸 🗸							
Bitrate:	20485							
Recommended Bitrate:	2048							
Сору	Confirm Cancel							

2. Click the icon 🔛 and select the device type, image quality, resolution and frame rate in the

corresponding drop-down list. Then the recommended bitrate will be displayed automatically and you are also allowed to customize the bitrate. Please refer to the table below for detailed information of the channel parameters.

Channel Parameter	Description			
Device Type	The device type can be selected as IPC or DVR.			
Imaga Quality	6 levels of image quality are provided, including Level 1			
Image Quality	(best), Level 2, Level 3, Level 4, Level 5 and Level 6.			
	For DVRs, the resolution can be selected as 4CIF, 2CIF,			
Resolution	CIF or QCIF. For IPCs, the resolution can be selected as			
	2560*1920, QXGA (2048*1536), 1080P and so on.			
Frome Date	The frame rate ranges from 1/16 to 25 in PAL format			
Frame Kate	and from 1/16 to 30 in NTSC format.			
Ditroto	The bitrate adopts the recommended bitrate by default.			
Ditrate	And it also can be customized.			

Description of Channel Parameters:

Decommonded Pitrate	The software calculates and displays the recommended
Recommended bitrate	bitrate automatically after other parameters are set.

#### Notes:

- 1) The Image Quality is read-only when the device type is selected as IPC.
- 2) The Bitrate ranges from 32 to 16384.
- 3. Click **Confirm** button to save the new configurations and close the dialog box.

You can click **Copy** button to copy the new configurations to the other channels on the list.

Сору	То	×
Please select the channel to copy t	0.	
172.6.23.196_1		
172.6.23.196_2		
172.6.23.196_3		
172.6.23.196_4		
172.6.23.196_5		
172.6.23.196_6		
172.6.23.196_7		
172.6.23.196_8		
172.6.23.196_9		
172.6.23.196_10		
172.6.23.196_11		
172.6.23.196_12		
172.6.23.196_13		*
Select All		
	Confirm	Cancel

To delete the channel added, select the channel on the list and click **Delete Channel** button. Then the selected channel will be deleted.

# **Chapter 4 Calculating**

#### Purpose:

The main function of Disk Calculator software is to calculate the recording time when disk space is given or to calculate the disk space needed when recording time is given.

#### Before you start:

The device is required to be added to the channel list and the channel parameters need to be configured.

### 4.1 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:

×1				Disk C	alculator		×
🔼 Calcula	ite 🥡	Help					
Channel Configur Channel List 🕂	ation Add Manually	Modify Channel	🕺 Delete Chanr	nel 📄 Show Or	nline Device	Import From Client	Calculate All Disk Space Given Recording Time Given
Device Type	Channel Name	Image Quality	Resolution	Frame Rate	Bitrate	Recommended Bit	L3
IPC	172.6.23.176_1	Level 1 (best)	4CIF	25	2048	2048	Disk Space:
DVR	172.6.23.72_1	Level 3	2CIF	25	1024	1024	ТВ
DVR	172.6.23.72_2	Level 3	2CIF	25	1024	1024	= GB
DVR	172.6.23.72_3	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_4	Level 3	2CIF	25	1024	1024	Calculate All
DVR	172.6.23.72_5	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_6	Level 3	2CIF	25	1024	1024	Recording Time:
DVR	172.6.23.72_7	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_8	Level 3	2CIF	25	1024	1024	Month
DVR	172.6.23.72_9	Level 3	2CIF	25	1024	1024	= Week
DVR	172.6.23.72_10	Level 3	2CIF	25	1024	1024	= Day
DVR	172.6.23.72_11	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_12	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_13	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_14	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_15	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_16	Level 3	2CIF	25	1024	1024	
l Video Standard:	• F	PAL					Record Time Per day: 24 Hour

2. Input the known disk space in the disk space text field with the TB or the GB for the unit. You can also set the record time per day at the bottom of calculating interface.

<u>ل</u> ظ				Disk C	alculator			- • ×
📧 Calcula	te 👘	Help						
Channel Configur	ation						Calculate All	
Channel List 🖧	Add Manually	Modify Channel	🔀 Delete Chann	el 🛛 📾 Show Or	nline Device 🔛	Import From Client	Disk Space Given Recording Time Gi	iven
Device Type	Channel Name	Image Quality	Resolution	Frame Rate	Bitrate	Recommended Bit		
IPC	172.6.23.176_1	Level 1 (best)	4CIF	25	2048	2048	Disk Space:	
DVR	172.6.23.72_1	Level 3	2CIF	25	1024	1024	2 T	в
DVR	172.6.23.72_2	Level 3	2CIF	25	1024	1024	= 2000 G	3B
DVR	172.6.23.72_3	Level 3	2CIF	25	1024	1024	- 2000	
DVR	172.6.23.72_4	Level 3	2CIF	25	1024	1024	Calculate All	
DVR	172.6.23.72_5	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_6	Level 3	2CIF	25	1024	1024	Recording Time:	
DVR	172.6.23.72_7	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_8	Level 3	2CIF	25	1024	1024	M	lonth
DVR	172.6.23.72_9	Level 3	2CIF	25	1024	1024	= V	Veek
DVR	172.6.23.72_10	Level 3	2CIF	25	1024	1024	=	)av
DVR	172.6.23.72_11	Level 3	2CIF	25	1024	1024		~
DVR	172.6.23.72_12	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_13	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_14	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_15	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_16	Level 3	2CIF	25	1024	1024		
Video Standard:	• F	AL					Record Time Per day: 24	Hour

#### Notes:

- 1. The disk space value displayed on the interface is the actual value that the disk manufacturer provides.
- 2. The unit of recording time includes month, week and day, assuming that each month has 30 days and each day has 24 hours.
- 3. The value of record time per day is 24 hours by default.

3. Click **Calculate All** button to calculate, and the results will be displayed in the Recording Time panel shown below:

<u>E</u>				Disk C	alculator			- • ×
E Calcula	ite 👔	Help						
Channel Configur	ation						Calculate All	
Channel List 🛟	Add Manually	Modify Channel	🗶 Delete Chann	el 💼 Show O	nline Device	Magnet From Client	Disk Space Given Recording Time	Given
Device Type	Channel Name	Image Quality	Resolution	Frame Rate	Bitrate	Recommended Bit		
IPC	172.6.23.176_1	Level 1 (best)	4CIF	25	2048	2048	Disk Space:	
DVR	172.6.23.72_1	Level 3	2CIF	25	1024	1024	2	тв
DVR	172.6.23.72_2	Level 3	2CIF	25	1024	1024	= 2000	GB
DVR	172.6.23.72_3	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_4	Level 3	2CIF	25	1024	1024	Calculate All	
DVR	172.6.23.72_5	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_6	Level 3	2CIF	25	1024	1024	Recording Time:	
DVR	172.6.23.72_7	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_8	Level 3	2CIF	25	1024	1024	1	Month
DVR	172.6.23.72_9	Level 3	2CIF	25	1024	1024	= 2	Week
DVR	172.6.23.72_10	Level 3	2CIF	25	1024	1024	= 10	Day
DVR	172.6.23.72_11	Level 3	2CIF	25	1024	1024		/
DVR	172.6.23.72_12	Level 3	2CIF	25	1024	1024		_
DVR	172.6.23.72_13	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_14	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_15	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_16	Level 3	2CIF	25	1024	1024		
							Denve Tex Den de la de	
Video Standard:	•	PAL					Record Time Per day: 24	Hour

### 4.2 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:

Æ				Disk C	alculator			- • ×
E Calcula	ate 🥡	Help						
Channel Configur	ration Add Manually	2 Modify Channel	St Delete Channe	al 💭 Show O	nline Device	Import From Client	Calculate All	iven
Device Type	Channel Name	Image Quality	Resolution	Erome Pote	Ritrate	Recommended Bit	Disk opace offen interesting time e	3
IPC	172.6.23.176.1	Level 1 (hest)	4CIE	25	2048	2048	Recording Time:	
DVR	172.6.23.772 1	Level 3	201F	25	1024	1024		Month
DVR	172.6.23.72.2	Level 3	201F	25	1024	1024		
DVB	172.6.23.72.3	Level 3	20IF	25	1024	1024	=   \	Week
DVR	172.6.23.72 4	Level 3	2CIF	25	1024	1024	=	Day
DVR	172.6.23.72_5	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_6	Level 3	2CIF	25	1024	1024	Calculate All	
DVR	172.6.23.72_7	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_8	Level 3	2CIF	25	1024	1024	Disk Space:	
DVR	172.6.23.72_9	Level 3	2CIF	25	1024	1024	· · · · · · · · · · · · · · · · · · ·	
DVR	172.6.23.72_10	Level 3	2CIF	25	1024	1024		B
DVR	172.6.23.72_11	Level 3	2CIF	25	1024	1024	= (	GB
DVR	172.6.23.72_12	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_13	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_14	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_15	Level 3	2CIF	25	1024	1024		
DVR	172.6.23.72_16	Level 3	2CIF	25	1024	1024		
Video Standard:	•	PAL	○ NTSC				Record Time Per da 24	Hour

2. Input the known recording time in the recording time text field with the month, the week or the day for the unit. You can also set the record time per day, and the default value is 24 hours.

<u>الم</u>				Disk C	alculator		
🔼 Calcula	ate 🥡	Help					
Channel Configu	ration						Calculate All
Channel List 🛟	Add Manually	Modify Channel	🔀 Delete Chann	el 🛛 📾 Show Or	nline Device 🔛	Import From Client	Disk Space Given Recording Time Given
Device Type	Channel Name	Image Quality	Resolution	Frame Rate	Bitrate	Recommended Bit	
IPC	172.6.23.176_1	Level 1 (best)	4CIF	25	2048	2048	Recording Time:
DVR	172.6.23.72_1	Level 3	2CIF	25	1024	1024	1 Month
DVR	172.6.23.72_2	Level 3	2CIF	25	1024	1024	= 4 Week
DVR	172.6.23.72_3	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_4	Level 3	2CIF	25	1024	1024	= 30 Day
DVR	172.6.23.72_5	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_6	Level 3	2CIF	25	1024	1024	Calculate All
DVR	172.6.23.72_7	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_8	Level 3	2CIF	25	1024	1024	Disk Space:
DVR	172.6.23.72_9	Level 3	2CIF	25	1024	1024	тв
DVR	172.6.23.72_10	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_11	Level 3	2CIF	25	1024	1024	= GB
DVR	172.6.23.72_12	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_13	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_14	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_15	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_16	Level 3	2CIF	25	1024	1024	
video Standard:	• F	PAL	○ NTSC				Record Time Per da 24 Hour

3. Click **Calculate All** button to calculate, and the results will be displayed in the Disk Space panel shown below:

<b>₩</b>				Disk C	alculator		- • ×
🔼 Calcula	ite 🕡	Help					
Channel Configur	ation						Calculate All
Channel List 🕂	Add Manually	* Modify Channel	😤 Delete Chann	el 📄 Show Or	nline Device 🔝	Import From Client	Disk Space Given Recording Time Given
Device Type	Channel Name	Image Quality	Resolution	Frame Rate	Bitrate	Recommended Bit	
IPC	172.6.23.176_1	Level 1 (best)	4CIF	25	2048	2048	Recording time:
DVR	172.6.23.72_1	Level 3	2CIF	25	1024	1024	1 Month
DVR	172.6.23.72_2	Level 3	2CIF	25	1024	1024	= 4 Week
DVR	172.6.23.72_3	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_4	Level 3	2CIF	25	1024	1024	= 30 Day
DVR	172.6.23.72_5	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_6	Level 3	2CIF	25	1024	1024	Calculate All
DVR	172.6.23.72_7	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_8	Level 3	2CIF	25	1024	1024	Disk Space:
DVR	172.6.23.72_9	Level 3	2CIF	25	1024	1024	5 ТВ
DVR	172.6.23.72_10	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_11	Level 3	2CIF	25	1024	1024	= 5705 GB
DVR	172.6.23.72_12	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_13	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_14	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_15	Level 3	2CIF	25	1024	1024	
DVR	172.6.23.72_16	Level 3	2CIF	25	1024	1024	
Video Standard:	• F	PAL					Record Time Per daj 24 Hour