



# Siemens HDD Capacity Estimator for the SISTORE AX / Vectis HX DVR range

Version 3.3

DVR / HVR HDD Capacity Estimator

SIEMENS

Select Model

Vectis HX1616 3000/500

PAL

Analog Cameras

Video Codec

H.264

Number of Cameras

1

Number of Audios

0

Video Quality

Basic

Video Resolution

Standard(CIF)

Video Frame Rate

1

IP Cameras (Customized)

IP Cameras (Generic)

Number of Cameras

0

Bandwidth value

0

Bits

☐ Show All Quality Options

☐ Set Record Duration :
 

10

Days

☐ Set Disk Capacity :
 

1000

GB

Bandwidth Unit :

Kbps

Required Disk Capacity

Required Bandwidth

Recordable Time Length

Duration ▲	Video Quality	IP Video Quality	Capacity
1 Hour	Basic	Basic	8.4 MB
1 Day	Basic	Basic	202.5 MB
1 Week	Basic	Basic	1.4 GB
1 Month	Basic	Basic	5.9 GB

■ General

Option	Description	Remark
Select Model	Select the DVR model you own.	Depending on the selection, the tabs below will change.
PAL / NTSC	Select between PAL or NTSC format.	Depending on the selection, the available frame rates and resolutions will change.

■ Analog cameras tab

Note: This tab has the camera selection on 1 per default on startup.

Option	Description	Remark
Video Codec	Depending on the chosen model the selection will change.	Usually only one codec is available per DVR.
Video Quality	Select the desired video quality.	
Number of Cameras	Select the desired amount of cameras	
Video Resolution	Select the desired video resolution	
Number of Audios	Select the amount of cameras that are additionally recording an audio stream.	
Video Frame Rate	Select the recording video frame rate.	

■ IP cameras tab (customized)

Option	Description	Remark
Number of Cameras	Select the amount of cameras.	To use this function, the values for the cameras, have to be taken from the manufacturers own calculation tool.
Bandwidth Value	Enter the bandwidth value for one camera. Also select the suitable unit.	

■ IP cameras tab (generic)

Option	Description	Remark
Video Codec	Select the desired codec, depending on the camera and DVR.	
Video Quality	Select the desired video quality.	
Number of Cameras	Select the desired amount of cameras	
Video Resolution	Select the desired video resolution	
Video Frame Rate	Select the recording video frame rate.	
MAT IPS	Enabling this feature will allow you to set a different frame rate when a motion occurs. The Motion Ratio specifies the amount of motion in the picture.	This feature is only suitable when the recording settings for long-time and motion recording should be different.
Motion Ratio		
Bandwidth / Camera	Calculates the bandwidth per camera.	

■ Options tab

Option	Description	Remark
Show All Quality Options	Expands the "Required Disk Capacity" tab with all quality options.	Not usable for the IP cameras "customized" tab. It is not available in the "Required Bandwidth" tab.
Set Recording Duration	Enabling this feature will allow you to set a specific time frame.	This feature is only available when the "Required Disk Capacity" tab is active.
Set Disk Capacity	Enabling this feature will allow you to set a specific disk capacity.	This feature is only available when the "Record Time Length" tab is active.
Bandwidth Unit	Select the unit for the bandwidth shown.	This feature is only available when the "Required Bandwidth" tab is active.

### Additional remarks:

- Disclaimer

We are unable to provide any guarantee with regard to the validity of the results for any particular application. No liability can be assumed for direct or consequential losses and third-party damages arising from the use of this estimation tool. The user of the Vectis HX Storage Estimator accepts full responsibility for the accuracy and validity of the input data that the Storage Estimator uses in its calculations. Be aware that this is an estimation tool, so the calculated values are just that - an average. The actual file size can vary significantly depending on image content. Therefore it is strongly recommended that a "buffer" of at least 30% is used when trying to select a hard drive size to meet a particular target recording time. We cannot accept any responsibility or liability if the calculated storage time differs from the actual storage time obtained.

- The IP camera "generic" purpose is to give a rough overview of the hard disk requirements. Due to the nature of the H.264 and MPEG 4 codec the calculated values cannot be taken for granted. The basis for the calculations are average values, as the picture size strongly varies depending on the image content and the camera. In this tab a tolerance of at least 50% has to be considered. Therefore SIEMENS always recommends to use the IP camera "customized" tab, and combine this with the cameras manufacturers own bandwidth calculation tool. This will provide the most accurate results.
- The Bandwidth calculations are based on the storage calculations, so they also use average pictures sizes as basis for their calculation. Due to this a tolerance of at least 30% has to be considered.
- The MAT IPS function is only suitable for cameras that support switching image parameters on motion.
- The SIEMENS Storage Estimator is optimized for the use with Microsoft Internet Explorer 9.
- When using the Storage Estimator it is possible to show the version number by pressing the following keys one after another ver

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