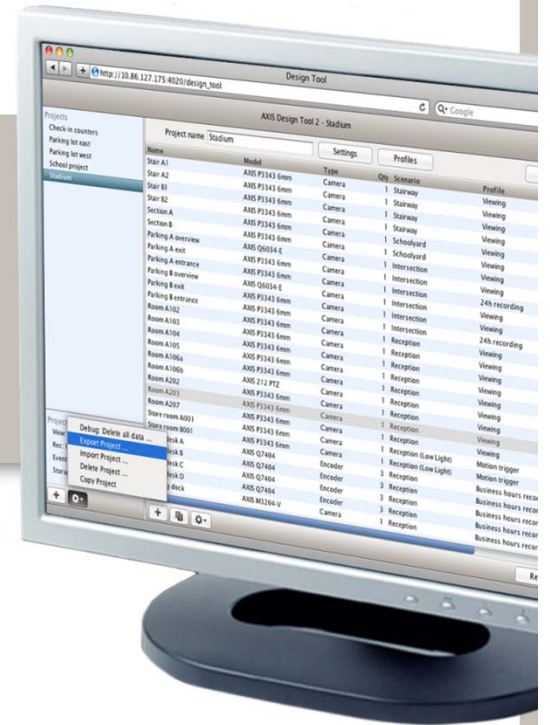


AXIS Design Tool 2



www.axis.com

This is Axis

- > Founded in 1984
- > IT company driving the shift towards digital video surveillance products
- > Global partnerships through distributors, resellers and system integrators
- > Offering the market's broadest portfolio of network video products
- > Focused on Network Video Solutions
- > Worldwide presence in more than 20 countries, over 1000 employees
- > Listed on NASDAQ OMX, under the ticker AXIS



AXIS Design Tool v2

Web-based Bandwidth and Storage Calculator



www.axis.com

Introducing the AXIS Design Tool v2

> System requirements

AXIS Design Tool version 2 has been designed for use with the following browsers:
MS Internet Explorer 8 or higher*, Google Chrome, Apple Safari 4 or higher, Mozilla Firefox 3.5 or higher.

** If you are using Internet Explorer on Windows, you might need to accept a warning message in order to allow Active Content to run. Enabling third-party development of a wide range of applications...*



AXIS Design Tool v2

- > Estimates bandwidth and storage needs for your surveillance project.
- > Based on image resolution, frame rate, compression, recording options, and the surveillance scenario.
- > Scenarios with a lot of detail or movement will require more bandwidth and storage, compared to scenarios with less detail or movement.
- > Allows for saving multiple projects and allows for camera profiles for ease of project creation

Video surveillance system design tools | Axis Communications - Windows Internet Explorer

http://www.axis.com/tools/

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System design tools

Top 3 Tools

Axis' system design tools make it easy to select the right camera or encoder for your surveillance project, find accessories and determine system storage and bandwidth requirements.

SELECT PRODUCTS

Axis product selector

Find and compare cameras or video encoders from Axis' product portfolio.

FIND ACCESSORIES

Accessory Selector

Tool: Find the right housings and accessories for your specific application.

PLAN YOUR SYSTEM

AXIS Design Tool:

Select settings for the cameras in your project to estimate bandwidth and storage needs.

Additional tools and tutorials

- AXIS Guide iPhone app
- iPhone version of the Axis Product Selector
- Axis lens calculator
- Calculate the focal length of the lenses you need in order to capture a specific scene at a certain distance
- Axis technical guide to network video
- Technology background information covering a wide range of topics
- Image Quality Tutorial

Done

Internet | Protected Mode: Off

100%

8:25 AM 8/23/2011

Type www.axis.com/tools to access the online tools portal

Select AXIS Design Tool to access the online tool

AXIS Design Tool v2 Interface

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- Products
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AXIS Design Tool

Plan your system with AXIS Design Tool

AXIS Design Tool helps you estimate bandwidth and storage needs for your surveillance project. For each camera in your project, you can pick a scenario, and select viewing, recording and compression options to get bandwidth and storage estimates that match your surveillance situation.

The new [AXIS Design Tool version 2](#) combines all of the functionality of the original tool, in addition to these new possibilities:

[Start tool](#)

[f](#) [t](#) [in](#) [+](#) Share

Documentation

User documentation:

- [User's Guide \(version 2\)](#)

System requirements
AXIS Design Tool version 2 has been designed for use with the following browsers:
MS Internet Explorer 8 or higher*, Google Chrome, Apple Safari 4 or higher, Mozilla Firefox 3.5 or higher.

* If you are using Internet Explorer on Windows, you might need to accept a warning

Select 'Start tool'

AXIS Design Tool v2 Interface

AXIS Design Tool - Parkway Stadium

Projects	Name	Model	Type	Qty	Scenario	Profile	Bandwidth	Storage
New Project	Right field box	AXIS Q6034-E	Camera	1	Station	Seating area monitoring	6.65 MB/s	11.3 GB
Parkway Stadium	Outfield grandstand	AXIS Q6034-E	Camera	1	Station	Seating area monitoring	6.65 MB/s	11.3 GB
Premium Mall	Pavilion standing	AXIS Q6034-E	Camera	1	Station	Seating area monitoring	6.65 MB/s	11.3 GB
	Parking A entrance	AXIS P3344-V12mm	Camera	1	Intersection	Parking lot exits	1.14 MB/s	8.59 GB
	Parking A exit	AXIS P3344-V12mm	Camera	1	Intersection	Parking lot exits	1.14 MB/s	8.59 GB
	Parking A level A	AXIS P5132-E	Camera	1	Schoolyard	Live monitoring	295 KB/s	-
	Parking B entrance	AXIS P3344-V12mm	Camera	1	Intersection	Parking lot exits	1.14 MB/s	8.59 GB

Summary Settings

View: 153 MB/s
Rec: 3.50 MB/s
Event: 35.2 MB/s
Storage: 350 GB
Total: 444 B/s

Contact Axis

Profiles Reports Help

- Add cameras and encoders to your project listing
- Edit product settings in the listing or double-click to edit
- Projects listing
- Project summary and project settings
- Add, import, export or duplicate projects
- Add, duplicate or edit products
- Profiles hold viewing and recording settings
- Open reports

AXIS Design Tool v2

Getting Started

- >After launching the tool, a 'help' screen will open to assist in project creation
- >To begin, select a camera and one of the preloaded *model scenarios*, which allow for varying complexity and movement.
- >Choose the scenario that is closest to your surveillance situation.
- >Viewing and recording settings are managed using *profiles*.
- >Choose one of the built-in profiles, or create your own profile to match your project needs.
- >To add new profiles or edit profile settings, click the **Profiles** button.

AXIS Design Tool v2

The screenshot displays the AXIS Design Tool v2 interface for a project named "Goran's Grocery Store". A table lists the project components, and a dialog box is open for configuring a camera profile.

Projects	Name	Model	Type	Qty	Scenario	Profile	Bandwidth	Storage
Goran's Grocery Store	CheckOut Counter	AXIS M3204	Camera	4	Schoolyard	Check out Cameras	2.83 MBit/s	1.22 TB
New Project	CheckOut Counter	AXIS P1344	Camera	4	Schoolyard	24h recording	7.59 MBit/s	960 GB
	Shop Floor	AXIS M3203	Camera	27	Schoolyard	Shop Floor	20.8 MBit/s	1.99 TB
	New Product	AXIS P3343 6mm	Camera	1	Schoolyard	Viewing	1.62 MBit/s	-
	New Product							-
	New Product							-

Name	Model	Quantity	Scenario
CheckOut Counter	AXIS P1344	4	Schoolyard

Select Custom or predefined Profile

Profile: 24h recording

Viewing Continuous Recording Event Recording

Frame Rate: 6 1 30

Resolution: VGA VGA VGA

Video Encoding: MotionJPEG MotionJPEG MotionJPEG

Compression: 30 30 50

Audio: Off Off Off

Recording: 24 h 20%

Bandwidth: 1.62 MBit/s 278 KBit/s 0 Bit/s

Buttons: Summary, Settings, Done

Summary: View: 14.6 MBit/s, Rec: 7.04 MBit/s, Event: 17.8 MBit/s, Total: 39.4 MBit/s, Storage: 4.21 TB

AXIS Design Tool v2

Profiles

- > Profiles are used to manage the viewing and recording settings for cameras and encoders.
- > A profile contains separate settings for viewing, continuous recording and event recording. You can choose settings such as frame rate, resolution, codec and compression.
- > New AXIS Design Tool projects come with three pre-defined profiles. You can use these directly in your project, or edit them to suit your needs.
- > You can also create any new profiles you may need. To add new profiles, or edit existing profiles, click the **Profiles** button. When you update a profile, settings for all cameras using that profile will be updated.

AXIS Design Tool v2

Editing product settings

>You can edit product settings directly in the product listing. Use the keyboard to navigate and change the settings.

Name	Model	Type	Qty	Scenario	Profile	Bandwidth	Storage
Food court South	AXIS P3343 6mm	Camera	1	Schoolyard	Live monitoring	-	-
Food court North	AXIS P3343 6mm	Camera	1	Schoolyard	Live monitoring	-	-
Food court West	AXIS P3343 6mm	Camera	1	Schoolyard	Live monitoring	-	-
Food court East	AXIS P3343 6mm	Camera	1	Schoolyard	Live monitoring	-	-

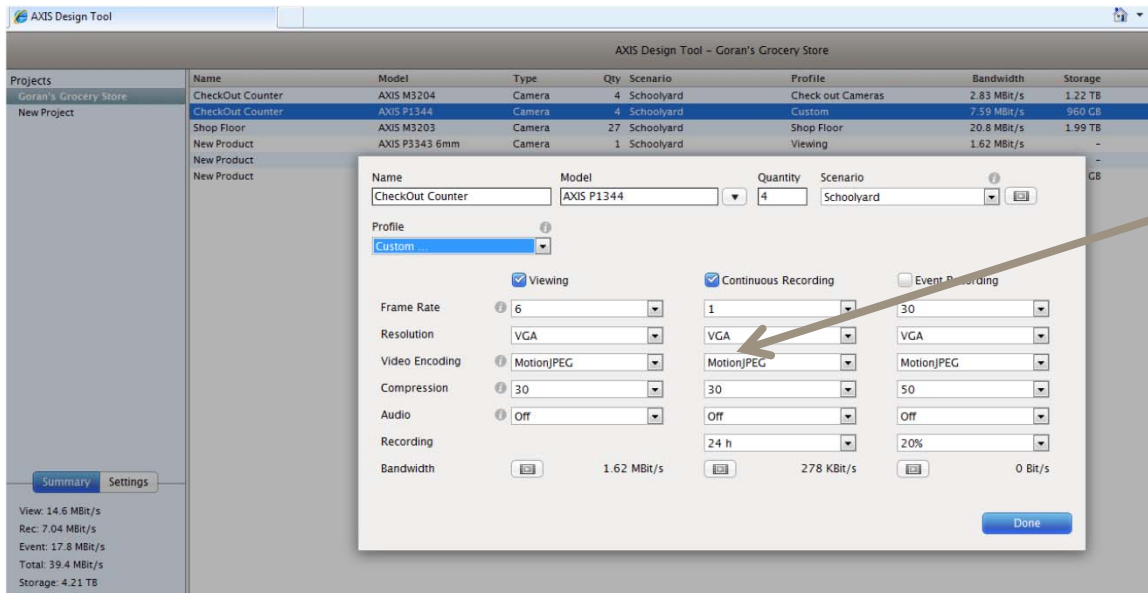
>You can also double-click a product to open an edit dialog.

>Inside the edit dialog you will also see the recording and viewing settings that are applied to this camera or encoder.

>To change these settings, select a new profile from the Profile menu.

AXIS Design Tool v2

By selecting 'Custom', you can create or modify the settings that only apply to the product being edited.



In a pre-dedfined profile, the parameters are greyed out. Only 'Custom' allows for modification

AXIS Design Tool v2

The screenshot displays the AXIS Design Tool v2 interface for a project named "Goran's Grocery Store". It features a table of camera configurations and a settings dialog box for a selected camera.

Projects	Name	Model	Type	Qty	Scenario	Profile	Bandwidth	Storage
Goran's Grocery Store	CheckOut Counter	AXIS M3204	Camera	4	Schoolyard	Check out Cameras	2.83 MBit/s	1.22 TB
New Project	CheckOut Counter	AXIS P1344	Camera	4	Schoolyard	Custom	9.81 MBit/s	2.88 TB
	Shop Floor	AXIS M3203	Camera	27	Schoolyard	Shop Floor	20.8 MBit/s	1.99 TB
	New Product	AXIS P3343 6mm	Camera	1	Schoolyard	Viewing	1.62 MBit/s	-
	New Product							-
	New Product							-

The settings dialog box for the "CheckOut Counter" camera (Model: AXIS P1344, Quantity: 4, Scenario: Schoolyard) shows the following configuration:

- Name: CheckOut Counter
- Model: AXIS P1344
- Quantity: 4
- Scenario: Schoolyard
- Profile: Custom ...
- Viewing: Viewing
- Continuous Recording: Continuous Recording
- Event Recording: Event Recording
- Frame Rate: 6
- Resolution: 3MP (Warning icon)
- Video Encoding: MotionJPEG
- Compression: 30
- Audio: Off
- Recording: 24 h
- Bandwidth: 1.62 MBit/s

The dialog box also shows bandwidth and storage requirements for each profile:

Profile	Bandwidth	Storage
Viewing	1.62 MBit/s	-
Continuous Recording	833 KBit/s	2.88 TB
Event Recording	0 Bit/s	-

If a camera is not capable of the settings made in the profile, a warning is displayed.

AXIS Design Tool v2

Scenarios

>For each camera you need to select the scenario that is most similar to the actual surveillance situation.

Intersection – limited detail, medium movement, outdoor

Reception – limited detail, limited movement, indoor

Schoolyard – lots of detail, medium movement, outdoor

Stairway – lots of detail, medium of movement, indoor

Station – lots of detail, lots of movement, indoor

>To view example videos showing the scenarios, double-click a product in your project to open the edit dialog.

>In the dialog, you can open example videos and also review different frame rates and compression settings.

AXIS Design Tool v2

Reports

>AXIS Design Tool provides three different reports:

- Bandwidth estimate report – lists bandwidth and storage requirements for each camera and provides a total for the project.
- Bill of materials – provides a summary of products included in the project. You can choose to include AXIS Camera Station licenses for your project in the bill of materials.
- Hardware recommendations for AXIS Camera Station – these recommendations are based on the number of cameras and encoders in your project.

>Click the **Reports** button to choose which report to open.

>The reports open in a separate window that you can print. You can also copy the contents of the report and paste into another document, for example a spreadsheet.

AXIS Design Tool v2

Understanding the Results:

Click the **Summary** button to view the results for the current project.

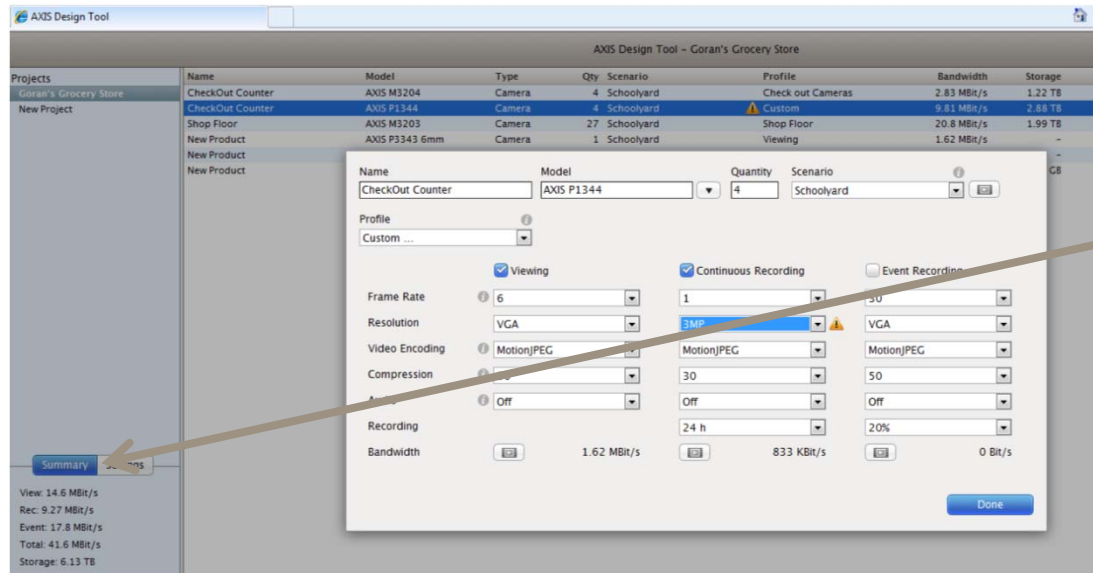
Result	Estimated bandwidth/storage required for...
View	Viewing
Rec	Continuous recording
Event	Event-based recording
Total	Viewing and all recordings
Storage	All recordings

* Please note that the results shown in the AXIS Design Tool are estimates only. Actual bandwidth and storage requirements will depend on the illumination and the motion being recorded. Be sure to allow for some margin when designing your system.

AXIS Design Tool v2

Understanding the Results:

Click the **Summary** button to view the results for the current project.



Summary Settings

View: 14.6 MBit/s
Rec: 9.27 MBit/s
Event: 17.8 MBit/s
Total: 41.6 MBit/s
Storage: 6.13 TB

AXIS Design Tool v2

Understanding the Results:

Click the **Summary** button to view the results for the current project.

The screenshot shows the AXIS Design Tool interface for a project named 'Goran's Grocery Store'. The main window displays a table with columns for Name, Model, Type, Qty, Scenario, Profile, Bandwidth, and Storage. The 'CheckOut Counter' component is highlighted in blue. Below the table, there are 'Summary' and 'Settings' buttons. The 'Settings' panel is expanded, showing fields for Project name, Storage (days), and Location.

Name	Model	Type	Qty	Scenario	Profile	Bandwidth	Storage
CheckOut Counter	AXIS M3204	Camera	4	Schoolyard	Check out Cameras	2.83 MBit/s	1.22 TB
CheckOut Counter	AXIS P1344	Camera	4	Schoolyard	Custom	9.81 MBit/s	2.88 TB
Shop Floor	AXIS M3203	Camera	27	Schoolyard	Shop Floor	20.8 MBit/s	1.99 TB
New Product	AXIS P3343 6mm	Camera	1	Schoolyard	Viewing	1.62 MBit/s	-
New Product	AXIS P3343 6mm	Camera	4	Schoolyard	Viewing	6.47 MBit/s	-
New Product	AXIS M3203	Camera	1	Schoolyard	Custom	111 KBit/s	31.9 GB

Summary Settings

Project name
Goran's Grocery Store

Storage (days)
80

Location
United States

'Settings' allows for naming the project, setting the storage duration and the location, referring to PAL and NTSC products

AXIS Design Tool v2

Export and import

- > The *export* and *import* functions are used to share and backup projects.
- > AXIS Design Tool is a web application running in a web browser,
- > You need to be online in order to save or open projects directly to or from your local disk.
- > If you are working off-line, you can export or import projects using copy and paste. When using this option, you copy project data between AXIS Design Tool and e.g. an e-mail or word processing document.
- > Project data is stored as an encoded text file. Do not alter the contents of the encoded data, as you will not be able to import into AXIS Design Tool.

AXIS Design Tool v2

Where is my project data?

- > AXIS Design Tool stores your projects locally on your computer, using your browser's local storage.
- > Each browser has its own local storage, so if you are using more than one browser, you will see different projects.
- > Browsers keep local storage separate for different web sites, so projects you have created using the online version of the design tool will not be visible when using the design tool from a USB or local disks, or the other way around.
- > To move projects between browsers, or between the online version of the tool and a local version, use the export and import functions.

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Additional Information & Instruction

- > *The Axis Communications' Academy provides a range of educational curricula to boost competence and confidence about Axis products and network video technology.*



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