

CCTV

Siemens cameras:
For the best pictures
in all lighting
conditions.





Attractive, powerful cameras for any area of application ...

Only a camera optimally adjusted to prevailing light conditions can deliver clear, crisp images. Siemens has met this challenge at the highest level and created a range of cameras to cover all customer needs. Siemens offers solutions for every application, for indoor and outdoor, from the inexpensive 1/3" CCD DSP version to the innovative 1/2" top model, from simple monochrome cameras to high-performance colour cameras as well as specialised Wide Dynamic day-night cameras. Cameras by Siemens can be used for monitoring in public areas, for traffic monitoring, in tunnels, casinos, train stations, airports and many other applications. With their uniformly attractive design, the cameras offer a "sharper image" in any environment.

... produce images of the highest quality

■ Secure surveillance even under extreme light conditions

Lighter and darker areas in the picture are not a problem for cameras from Siemens. The Wide Dynamic function, as applied e.g. in the model CCWC1345, can compensate varying light conditions and therefore produce top quality images.

■ Setting privacy zones to protect sensitive image areas

To hide sensitive areas, privacy zones can be configured in the camera view. Depending on the camera model, up to 8 zones can be defined at any position in the image.

■ Automatically switching day-night cameras

In automatic day-night mode, the camera switches automatically to colour or monochrome according to the lighting level, ensuring crisp clear images 24 hours a day. The switching point, which depends on the lighting level, and the delay time for switching the day-night setting when the lighting changes, can be selected by the user. All day-night cameras have an infrared cut filter that enables the camera to generate particularly sharp images by day or night and makes the camera sensitive to infrared light in monochrome mode.

In addition to automatic operation, the camera can be switched manually to monochrome via an external relay input, for example when using a photocell that detects lighting levels.

■ Test image generator facilitates accurate setting of multiple monitors

Many of the camera models can produce a test image as a video output. This test image generator enables the calibration of multiple monitors, for example in a control room. Monitors calibrated to the same settings display images with the same colour, brightness, contrast etc. and are therefore easier and clearer to view for security personnel, when switching the same camera to another monitor.

■ User-friendly back focus adjustment

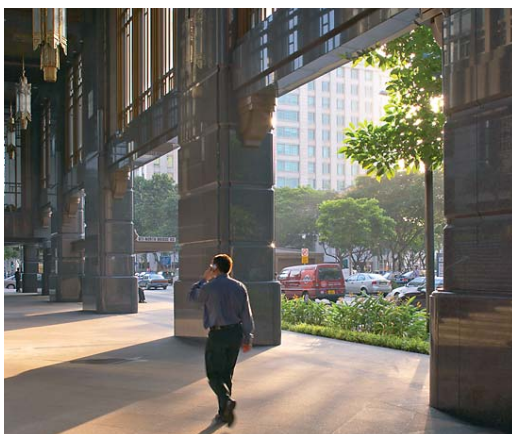
Correct setting of back focus is the basic prerequisite for uniformly high image quality by day or by night. There is a settings "wizard" available to help achieve the best back focus adjustment. This, together with the manual thumb wheel, make the adjustment very simple.

■ Video images via an Ethernet network with the new super-high resolution indoor IP camera CCIS1337

Images from the new super-high resolution IP camera CCIS1337 can be transmitted over any Ethernet network and displayed via a standard web browser. Additional features, such as day-night mode, the mechanical infrared cut filter, MJPEG compression and Power over Ethernet (PoE) technology make this camera a true top-class model.

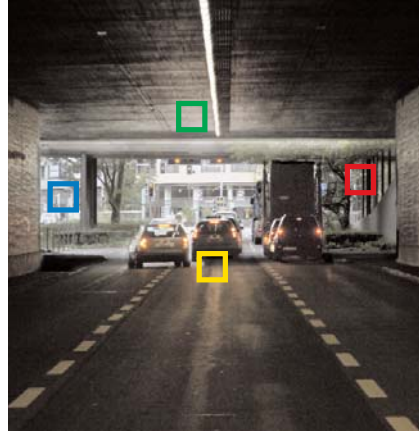
Highlights

- Optimised images even under extreme light conditions with Pixim® technology and Wide Dynamic
- Privacy zones to protect sensitive image areas
- Day-night cameras with automatic switching
- Test image generator for accurate calibration of multiple monitors
- User-friendly back focus adjustment
- Video images via an Ethernet network with the new super-high resolution IP camera CCIS1337





Overexposed image with view outside tunnel not clearly visible.



Optimised exposure per pixel using Pixim® Technology even in areas of shadow or brightly lit zones.

CCWC1345 – the latest high-resolution colour camera from Siemens uses Pixim® Technology and Wide Dynamic

The latest Siemens high-resolution Wide Dynamic camera CCWC1345 uses Pixim, Inc.'s advanced "Digital Pixel System™" technology (DPS) to offer outstanding performance under extreme lighting conditions. This technology allows each pixel in the image to act as an independent camera. Thereby ensuring that each pixel receives exactly the right amount of light and enhancing the total image to deliver optimum quality.

DPS technology also compensates for overexposed and underexposed areas in the image, making it possible for this camera to produce richly detailed images with a resolution that was previously unattainable. Difficult scenes containing areas of shadow or brightly lit zones can now be monitored with confidence.

In addition to the normal BNC coaxial video connection for up to 200 m, the camera features a two-wire video output that allows video signal transmission over a distance of up to 1200 m using a simple two-wire cable (telephone cable for example). A two-wire receiver is the only extra piece of equipment required.

Integral motion detection also makes this camera capable of simple "stand-alone" scene surveillance.

Siemens cameras are renowned for excellent design and functionality and the new CCWC1345 is no exception. For

example, the CCWC1345 features an OSD menu for easy programming, backlight compensation for 6 zones, an integral test image generator to help when setting up multiple monitors and a settings "wizard" for optimum back focus adjustment. Moreover, the camera can be remotely-programmed via an RS485 interface and allows a privacy zone to be defined in the video image.

The camera's ability to switch between PAL and NTSC video makes it suitable for use in video surveillance systems all over the world.

Privacy zones protect PIN number and account information.



IP camera with Power over Ethernet or "quick" connectors for 12V DC/24V AC.



CCIS1337 IP camera with Hybrid Technology from Siemens

Due to Hybrid Technology from Siemens the IP camera CCIS1337 offers truly the best of both worlds, as a standard analogue BNC connection is present for use in traditional CCTV systems. However, with Hybrid Technology from Siemens, the camera is future-proof, because as the system is transferred to digital (i.e. swapped from coaxial cable to Ethernet transmission), these Siemens cameras also have an Ethernet connector to allow direct connection to an IP network.

Siemens IP cameras capture and send live streaming video directly over an IP network that enables users to view and manage the camera using a standard web browser or SISTORE MX NVR (network video recorder) software on any local or remote computer on a network. Therefore transmission distances are no longer a problem.

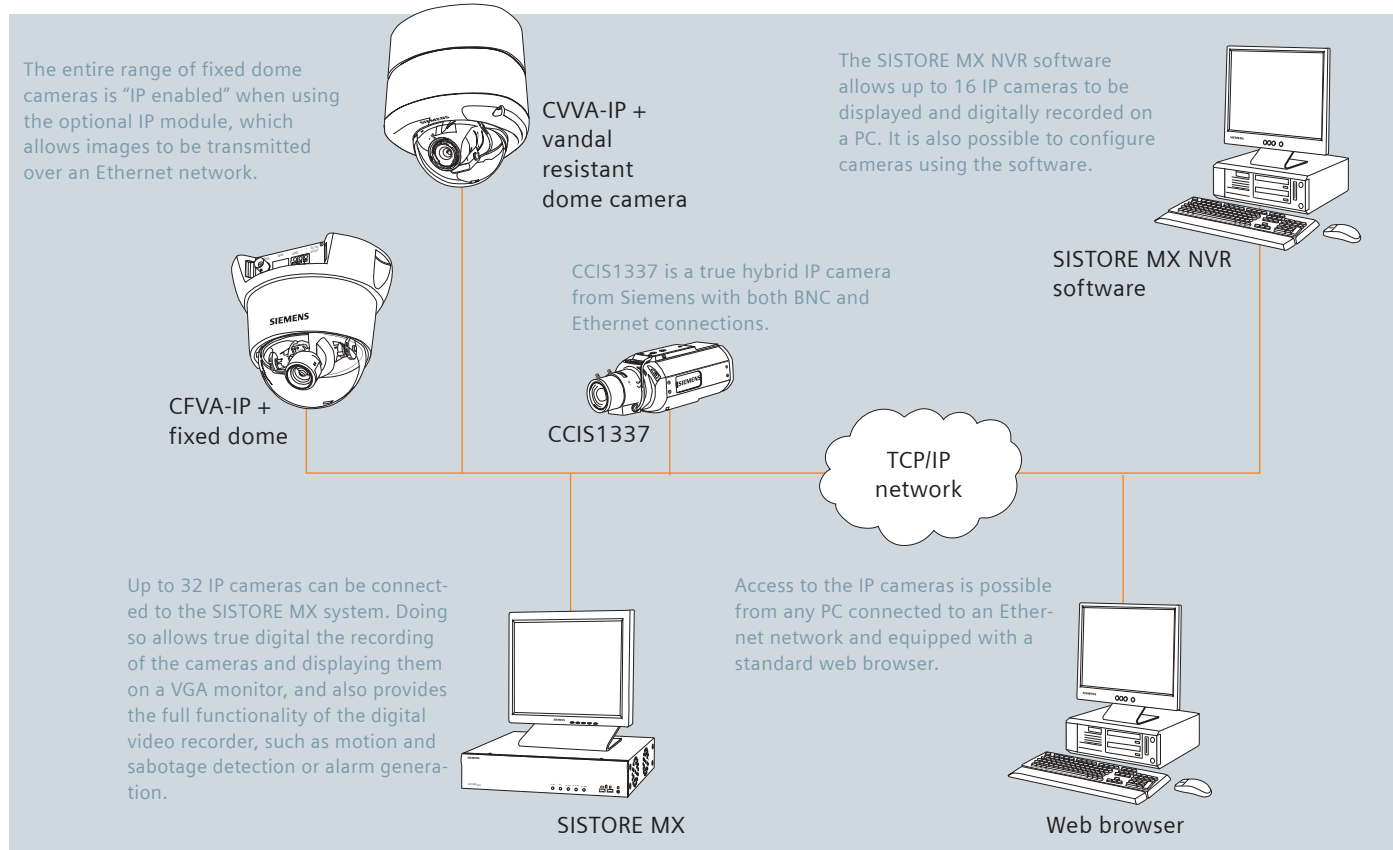
■ SISTORE MX NVR

SISTORE MX NVR software allows all the functionality of the highly successful SISTORE MX digital recording system to take place directly on a PC. This means it is possible to record IP cameras on your PC, via password access restrict the viewing of the cameras and utilise the many multi-screen viewing formats possible (up to 32 IP cameras can be recorded and viewed simultaneously). Of course if required you can manage any alarms connected, or make use of the in-built motion detection and sabotage detection alarms.

■ Installation

An IP based Ethernet network infrastructure is often already in place, which means the IP camera can simply be connected to the nearest network connection. Simply set the IP address and you're up and running! Adding more IP cameras to the system is as easy as the first one.

With the facility of Power over Ethernet (PoE) – supplying power directly over the network cable – an external power supply is unnecessary, making installation much easier. However, of course the camera can be powered using a conventional power supply, if required.





Too bright



Too dark

Optimal images around-the-clock

■ Better images with any lighting conditions

Cameras from Siemens use amongst others the latest double density DSP technology (Sony SS2-WD). By compensating underexposed or overexposed areas of the picture, the cameras can deliver the clearest image results even with difficult lighting conditions, such as in tunnels, brightly lit scenes, or strongly lit backgrounds.

All models feature back-light compensation modes, that are used for enhancing objects in back-lit scenes, which previously would have been seen as silhouette. Additionally, the electronic shutter ensures blur-free images even when recording fast moving objects. This is useful for applications such as license plate recognition.

■ Optimal settings give the best pictures

The cameras provide more than just top-quality images. They are also extremely easy to use. Configuration of their comprehensive functions is a simple matter with the clear, logical OSD menu.

As an alternative to configuration with the OSD menu, cameras are available with simple DIP switches for setting functions.

■ Cameras from Siemens are simple to install and look great

The cable management on the top and bottom of the camera makes it easy to connect auto-iris lenses with various cable lengths. After installation is completed, the lens cable is concealed under the cover, giving a clean, professional appearance that simply looks neat and tidy.

There is a connection available on the side and the back of the camera to provide as much convenience as possible for connecting auto-iris lenses.

Small details, such as the power connection on the back with an LED display for power of the operating status, or the quick-connect for simple connection of the supply voltage and control signals, make it easier for installers to set the system up and make it ready to operate without using additional tools.

■ Camera title

A specific identifying text can be defined for each camera to help a user recognise quickly which camera image is currently being shown.

Simple DIP switches for configuring functions.



Control buttons for the OSD menu for configuring the comprehensive functions.



Cable management on the top and bottom of the camera facilitate a tidy, professional installation.





Wide Dynamic ON

■ **Highly innovative 1/2" models**

All 1/2" models have additional innovative functions. They have an integrated camera identification, which in monitoring systems with multiple cameras allows each individual unit to be addressed separately. This offers particular advantages in conjunction with RS485 interfaces, because it facilitates convenient remote control.

Moreover, an alarm signal can cause four digital images to be stored in the camera. These pictures can then be accessed remotely.

■ **Accurately detailed colour image playback with up to 540 lines of horizontal resolution**

The new super-high resolution CCBC1337 and CCBS1337 models as well as the new IP camera CCIS1337 offer 540 lines of horizontal resolution and therefore ensure pictures with the most detailed information.

■ **Remote configuration via RS485**

With the remote control software installed on a PC, a combination of up to 255 cameras (colour cameras and day-night cameras) can be addressed and configured individually on an RS485 bus. The settings can not only be changed; they can also be saved or loaded onto a camera from a saved file. This facilitates fast, trouble-free configuration of a new camera.

Welcome to the world of innovative thinking

■ **Innovation**

Siemens invests a great deal in both manpower and research and development. This results in a steady stream of new insights, technologies and inventions that enable us to improve the reliability of our products and systems, ensuring the securest products and making our systems even more simple and convenient to operate.

Advances in digital technologies are creating a whole new world of possibilities. Siemens is at the leading edge of progress in this field and continues to redefine both current and future technologies.

■ **Reliability**







With a history of over a hundred years, if you need an established, reliable partner you are in the very best of hands with Siemens. System expansions and upgrades can be continuously made over a period of years, which ensures your investment for the future.






■ **Security**


Siemens products and systems provide you with security. Today, tomorrow and for decades to come. That's why countless customers around the world place their trust in Siemens.



Technical overview

	CCBS1225	CCBC1225	CCBB1225	CCWC1335	CCBS1337	CCBC1337
						
	Day-Night Wide Dynamic	Colour Wide Dynamic	Monochrome Wide Dynamic	Day-Night Wide Dynamic	Day-Night	Colour
Image sensor	1/2" CCD	1/2" CCD	1/2" CCD	1/3" CCD	1/3" CCD	1/3" CCD
TV lines	480	480	580	480	540	540
Resolution	High resolution	High resolution	High resolution	High resolution	Super- high resolution	Super- high resolution
CMOS Pixim® Technology						
TV standard	PAL	PAL	CCIR	PAL or NTSC*	PAL or NTSC*	PAL or NTSC*
Power supply 12 VDC / 24 VAC dual 110 ~ 240 VAC	■	■	■	■ ■	■ ■	■ ■
Min. illumination (@ 50 IRE)	0.045 Lux (colour) 0.008 Lux (mono) (@ F1.2)	0.11 Lux (colour) (@ F1.2)	0.0037 Lux (@ F1.2)	0.4 Lux (colour) 0.08 Lux (mono) (@ F1.4)	0.4 Lux (colour) 0.08 Lux (mono) (@ F1.4)	0.5 Lux (colour) (@ F1.4)
Slow shutter	■	■	■	■		
Programmable shutter speed	■	■	■	■	■	
S/N ratio	> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Dynamic noise reduction (DNR)					■	
Automatic gain control (AGC)	Auto or manually adjustable max. 39 dB	Auto or manually adjustable max. 39 dB	Auto or manually adjustable max. 39 dB	OFF, Normal, Turbo, max. 30 dB	OFF, Normal, Turbo, max. 30 dB	ON / OFF max. 30 dB
On screen display menu	■	■	■	■	■	
Camera title overlay	24 characters	24 characters	24 characters	16 characters	16 characters	
Colour/Monochrome switchable	■			■	■	
Infrared cut filter	■			■	■	
Peak-white inversion	■	■	■			
Automatic white balance	■	■		■	■	■
Back light compensation	49 zones (7 x 7)	49 zones (7 x 7)	49 zones (7 x 7)	6 zones	6 zones	6 zones
Wide Dynamic	■	■	■	■		
Quick-connect	■	■	■	■	■	■
Cable management	■	■	■	■	■	■
One screw easy back focus	■	■	■	■	■	■
Line lock synchronisation	■	■	■	■	■	■
Digital picture storage in camera	4 images	4 images	4 images			
Privacy zones				8	8	
RS485 remote programming	■	■	■	■	■	
Interface with ID	■	■	■	■	■	
Alarm input / output	■	■	■	■	■	
S-VHS Y/C output	■	■	■	■	■	■
Twisted Pair Video Output						
Activity Detection (Motion)						

CCBC1325	CCWC1345	CCBS1345	CCBC1345	CCBB1345
				
Colour	Colour Wide Dynamic	Day-Night	Colour	Monochrome
1/3" CCD	1/3" CMOS	1/3" CCD	1/3" CCD	1/3" CCD
480	500	480	480	580
High resolution	High resolution	High resolution	High resolution	High resolution
	■			
PAL or NTSC*	PAL and NTSC*	PAL or NTSC*	PAL or NTSC*	CCIR or EIA*
■ ■	■ ■	■ ■	■ ■	■ ■
0.6 Lux (@ F1.2)	0.5 Lux (@ F1.4)	0.3 Lux (colour) 0.08 Lux (mono) (@ F1.4)	0.6 Lux (@ F1.2)	0.15 Lux (@ F1.2)
	■			
■	■			
> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB
	■			
OFF / 12 dB / 18 dB 24 dB / 30 dB / 38 dB	OFF / 6 dB / 12 dB 18 dB / 24 dB / 30 dB	ON / OFF max. 30 dB	ON / OFF max. 38 dB	ON / OFF max. 38 dB
■	■			
16 characters	24 characters			
■	■	■		
		■		
■	■	■	■	
6 zones	6 zones	1 zone	1 zone	1 zone
	■			
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
	1			
	■			
	■			
	■	1 x input		
	■			
	■	■		
	■			

	CCIS1337
	
	Day-Night
Image sensor	1/3" CCD
TV lines	540
Resolution	Super-high resolution
Compression standard	MJPEG
TV standard	2:1 interlace PAL 50 Hz vertical 15.625 Hz horizontal
Streaming	QCIF (176x144): 25ips CIF (352x288): 25ips 4CIF (704x576): 10ips
Min. illumination (@ 50 IRE)	0.4 Lux (colour) 0.08 Lux (mono) (@ F1.4)
Pixels	752 (H) x 582 (V)
Programmable shutter speed	■
S/N ratio	> 50 dB
Automatic gain control (AGC)	OFF, Normal, Turbo, max. 30 dB
Camera title overlay	16 characters
Colour / Monochrome switchable	■
Infrared cut filter	■
Automatic white balance	■
Back light compensation	6 zones
Quick-connect	■
Cable management	■
One screw easy back focus	■
Line lock synchronisation	■
Parametrisation	HTTP Browser
PTZ control	via RS485
Alarm input	■
S-VHS Y/C output	■
Protocols	ARP, BOOTP/DHCP, TCP/IP, HTTP, ICMP, SNMP, FTP und DNS
Power supply	12 VDC / 24 VAC / PoE

*Model available on request.

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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