Network-based video surveillance with SeeTec 5: Your advantages at a glance.

SeeTec 5 is flexible and scalable

SeeTec software is manufacturer-neutral and supports edge devices from all leading camera and hardware manufacturers. This allows different devices from several manufacturers to be combined. in order to meet the requirements of the project in the best possible way. There are also interfaces to a large number of third-party applications, such as fire detection, access control or building management systems. In addition, as a genuine client/server solution, SeeTec 5 is easily scalable and suited for projects from one camera right up to several thousand edge devices. As the system can be extended very simply and can grow as the project requirements grow, it offers maximum security of investment for the future.

SeeTec 5 offers tailored solution packages

The options offered by network-based video management systems cover much more than just the displaying, storage and archiving of image data. Additional modules such as the SeeTec number plate recognition or the SeeTec Analytics product range facilitate an automatic pre-qualification of events, significantly reducing the load on security staff. SeeTec also offers software modules for certain vertical markets such as finance, retail and logistics, which when integrated with the company's business processes, make event searching much quicker. As a result, tailored solutions save valuable resources.

SeeTec 5 is powerful and innovative

Whether it is H.264, megapixel cameras or multi-streaming. SeeTec is always happy to lead the way by supporting new technologies. SeeTec's philosophy is to integrate new software and hardware components as deeply and thoroughly as possible, in order to give the user access to the complete function spectrum. Through the modular software design and the underlying client/ server architecture, SeeTec systems are also very powerful and as a result, allow pan-location projects to be established using several, distributed servers.

SeeTec 5 is reliable

Countless well-known companies and organisations in Europe and beyond trust in the stability and reliability of our software, made in Germany. The years of experience built on a large number of successfully deployed projects make SeeTec one of the leading video management solutions worldwide. Even in the after sales stage, SeeTec customers enjoy professional support through certified partners as well as directly from the SeeTec Support Team. With our service model, the video system always stays at the cutting edge of technology.

Have you already given it a try?

Test SeeTec 5 without obligation and without charge. Go on to www.seetec.eu where you can request a free-of-charge, fully functional 30-day test version to download.



Next-generation video surveillance

B ack in 1998, SeeTec developed a special application for the video surveillance market, with the world's first networkbased camera management software. In the meantime, thanks to its flexibility, innovation and reliability, IP video has developed into the ground-breaking technology in this market and with SeeTec, you are dealing with one of the leading suppliers in this segment.

SeeTec offers the optimum solution for each application, from small projects with a maximum of five cameras right up to large installations with several thousand video sources and interfaces to many third-party systems.

SeeTec 5 is one of the most powerful software products in the video surveillance market. On the hardware side, it is manufacturer-neutral and supports network cameras from all market-leading manufacturers. SeeTec 5 adapts flexibly to the corresponding system requirements and is more powerful and significantly more cost-effective than all other standard video equipment. Already existing analogue components can be integrated into the network technology without any problem. Thirdparty systems such as fire detection, intrusion detection and access control systems can be integrated and controlled through a wide range of interfaces.

With SeeTec 5, video surveillance has increased functionality and flexibility, while maintaining high levels of cost-efficiency. SeeTec customers enjoy the benefits of network-based video surveillance and video solutions in the industrial, retail, health, finance and logistics sectors as well as in the monitoring of town centres or car parks, often spread over several locations. SeeTec solutions are also deployed for logging the progress of building projects or for monitoring work processes. Many wellknown companies and organisations around the world count on SeeTec when it comes to implementing their video surveillance projects.



Accredited



In 2008, the testing and certification authority of the VBG (Employer's Liability Insurance Association) awarded SeeTec BGV certification. The testing covered the recording of alarms

and suspicious incidents, recording speed and quality, data backup access protection, fault messaging and system stability.



in 2010, SeeTec 5 was

given approva by Fiducia, one of the largest IT service providers in the banking sector, for use on Fiducia IT systems.

Scalability, Load Balancing and Architecture

CORPORATE HEADQUARTERS IN ROTTERDAM The server with the basic services is located in the administrative building. It provides services such as user administra tion and event control, thus guaranteeing the underlying functionality of the comp system. There is a second image data server in the stores, which handles the amera data generated there.

INTERNET

Application example:

A typical application example: Any Company Ltd has its headquarters with production and stores near to Rotterdam, Netherlands. There is a regional office in Basel, Switzerland with a large logistics centre and a sales and training centre in Munich, Germany.

The complete video surveillance system consists of several distributed servers and workstations. In this way, Any Company can make the best use of the available bandwidth hardware. Other concomitant applications such as an e-mail and fax server. ERP. etc., can exist in parallel at the same time. without problem.

extremely high and complex requirements in terms of system availability, redundancy and refresh rates to be achieved.

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After researching the various possibilities of deploying analogue or digital technology, we decided to go with the best that we found on the market: the SeeTec video surveillance."

SeeTec Multi-Solution Platform

The SeeTec Multi-Solution Platform gives a wide range of options for connecting SeeTec solutions with third-party systems from many different application areas. SeeTec 5 offers interfaces to many solutions from the areas of building management and access control as well as intrusion and fire detection systems. This makes it possible, for example,

to visualise alarm data from SeeTec 5 in third-party control centre systems. This means, that monitor walls can be used for the display of camera images from within

REGIONAL OFFICE IN BASEL

As the office in Basel does not have its own gatehouse, this function is handled from Nuremberg. As soon as anyone

rings the bell at Basel, an alarm is

triggered at the gatehouse in Nurem-

berg. Through the live video stream, the

through the door intercom system and

open the main gate, all using SeeTec 5.

security officer can monitor the situation. Then he can speak to the person in Basel

SeeTec 5. SeeTec solutions are also available through the SeeTec industry modules, which enable the video management system to be integrated with the company's business processes. Communication with third-party systems can be done, for example, through alarm triggers via TCP/IP, RS232 or OPC as well as through the functions of the SeeTec 5 SDK.

Alarm scenarios

Alarm scenarios are used to define in detail how an external third-party system is controlled and how incoming events should be reacted to. For instance, alarm recording can be started or external systems can be controlled through camera-based video sensors, the SeeTec video analysis modules, network I/Os, potential-free contacts and further triggers. Using the SIP module

for example, it is possible to speak through door intercoms and then to open doors through potential-free contacts. Alarm scenarios can also be configured such that they are only accessible for authorised users.

User administration

More than a thousand users can be managed through the user administration. Organisations can assign very detailed rights to any user for access to cameras and to their control elements such as PTZ control as well as for additional SeeTec 5 components, e.g. buttons or building plans. Of course, the user administration can also be integrated into the Active Directory environment so that you can login using your own personal Windows username.

SeeTec SDK

SeeTec offers a fully documented programming interface to integrate SeeTec 5 into third-party systems. In this way, applications from other manufacturers can be used conveniently with the functions and advantages of SeeTec 5.

SeeTec 5 takes a modular and network-based approach. All functions are organised into modules that communicate with each other over TCP/IP. By implementing multiple installations on distributed servers, the system can be scaled almost infinitely. The remote servers can be installed at different locations as required, e.g. regional offices.

The basis of the complete system is a client/server architecture where the clients are physically separated from the server. Both the recording of images and camera communication are implemented as services. Consequently, no applications need to be started on the server on user level. It is also not necessary to carry out a local login at the server.

This architecture paves the way for highly complex applications involving the storage of 3.500 frames/second on the server.

A further point is that this approach allows redundancy to be built into the complete system. Even if there is a power, network or server failure, SeeTec 5 guarantees high availability at all times.

Load balancing

As the individual server services can be distributed over one or more server systems in practically any constellation, the computing load that has to be handled can be distributed over the hardware resources in the most efficient way. This allows

GATEHOUSE WITH CONTROL CENTRE

From the gatehouse, there is access to all data as well as control of all cameras and connected systems in Rotterdam, Munich and Basel. The image data and the user nterface are displayed on a video wall of six monitors.

LOGISTICS CENTRE IN MUNICH

There are two remote servers in the logistics centre in Munich. They handle the storage of the images from all the cameras in Basel. Additionally, there are several wireless WLAN cameras installed in Basle at the main vehicle access point, which are integrated in SeeTec 5. The security staff at the gatehouse in Rotterdam don't just have access to these cameras, they can also control and zoom them. Of course, data is only transmitted over the Internet connection if someone from Munich is monitoring the cameras in Basel.

Manufacturer independence

A large number of camera manufacturers offer a very wide range of camera models on the market, each with their advantages and disadvantages, all of which need to be taken into consideration when planning a project.

For this reason, SeeTec pursues a policy of manufacturer indepen-dence. Network cameras and video servers from all the well-known

manufacturers as well as a large number of I/O and SIP modules. alarm triggers and video detectors can be operated with the SeeTec software. Standard server systems from all leading manufacturers can also be deployed for the SeeTec 5 server hardware.

o-performance ratio through the f hoice of IT and camera hardwar

Complex Functions – Simple Handling

Tree structure

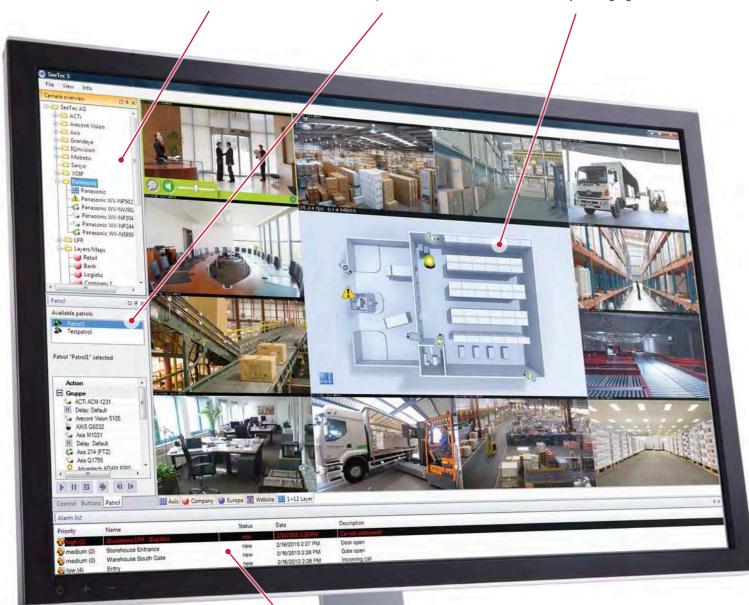
The tree structure facilitates intuitive and quick navigation as found in Microsoft® Windows® operating systems. Cameras, buttons, floor plans and other interface elements can be grouped and assigned in clear, easy-to-use tree structures

Guard patrols

Automated camera actions can be configured with the guard patrol option. It is possible to move to individual camera presets and to open camera windows and views. All actions can be carried out for a specified period of time.

Floor plans

Floor plans can be integrated in the software that deliver a complete overview of the area to be monitored Cameras doors, etc. can be positioned as icons and selected with a click In case of an alarm, the triggering object is highlighted in red.



Alarm list

The list of alarms is sorted by priority: low, middle and high. An alarm can have four different states: open, reset, rejected and confirmed.

Automated update and license management*

Especially in large and complex installations which cover several sites and sub-systems, the management of system updates and system licenses can be a real challenge. With the license distribution server and the auto update feature, SeeTec offers tools to standardise system rollouts and to keep large and complex SeeTec systems up to date at any time.



Industry-specific value packages that can be added as modules to existing SeeTec installations enable video surveillance to be integrated into the business processes In this way, interfaces to ERP or POS systems offer completely new deploymen possibilities for video systems.

Unlimited image parameters

You can define the image parameters for each camera, e.g. image size, frame rate, resolution, compression, etc. If an alarm is triggered at a camera, it can switch automatically from the minimised standard values to alarm mode and display and store the images, for example, with maximum refresh rate, quality and size.

Multi-Streaming

VERTICAL SOLUTIONS*

Drag & Drop user

Using Drag & Drop, all the

components integrated in

SeeTec 5 such as cameras

doors, barriers, etc. can be

dragged and dropped onto floor

plans, scaled, aligned and given

the required functions. Following

with a click on the corresponding

this, the functions can be used

position within the floor plans

quidance

Using multi-streaming, multiple image streams from one camera can be received in different formats and resolutions. So. for example, MJPEG images with a lower frame rate can be used for storage on the server while a fluid H.264 image stream with higher quality can be deployed for the live view.

We are confident that we made the right decision to go for the SeeTec system. It meets every aspect of our requirements perfectly.

SPAR (A) SPAR Österreichisch Warenhandels-AG

Encryption

The transmission and storage of authorisation and image data is all encrypted.

Event loa

All events and processes, e.g. the confirmation of alarms, clicking of buttons and opening of doors in SeeTec 5, are tracked in userbased event logs

Unlimited number of clients

SeeTec 5 supports an unlimited number of clients, depending on the deployed licence. The system can be expanded at any time to increase the number of clients, by upgrading the licence.



Exporting image data

Image data can be exported automatically to DVD or removable storage devices for further processing. The exported content is encrypted so that the image data can only be viewed and processed after entering the corresponding user data

Mobile and web access*

The SeeTec Anywhere option allows you to start a fully featured SeeTec Client from a USB stick or network drive without any previous software installation. thereby enabling access to a SeeTec server through the internet or intranet. Depending on user rights. SeeTec Anywhere provides all features that are covered by a standard SeeTec. client installation such as live view, archive view, administration and configuration.

For simple live and archive view, SeeTec offers a java based web client which is completely browser independent and can be used with a wide range of operating systems and platforms. The web client does not require additional video plugins as all streams are converted to MJPEG by using the SeeTec transcoding gateway. There is also a mobile client available for selected mobile devices, which enables access to archive or live view in case of an alarm.



Complex alarm scenarios

SeeTec 5 allows the creation of complex alarm scenarios that launch simultaneous recording for any number of cameras in the system in case of an alarm. Additionally, third-party systems such as door intercom systems or door openers can be controlled through alarm scenarios.

LICENSE PLATE RECOGNITION*

License plate recognition in the video image provides options for automatic access control and barrier operation, the assignment of parking bays and loading/ unloading ramps or the triggering of alarm scenarios configured in SeeTec 5. Processes are simplified with a resulting saving in costs.

Audio

SeeTec 5 supports unidirectional and bidirectional audio connections. The integration of MPEG4 audio allows you to listen to conversations that take place in front of a camera. Additionally, VoIP allows the bidirectional integration of intercoms into the video management with high sound quality.

Central administration

In case of an installation that is distributed over several sites and offices, the complete system can be administered from any location through a primary configuration module. Through the Administration and Configuration mode, SeeTec 5 can centrally modify and manage every camer every clie

User profiles

User profiles are configurable on all levels down to individual cameras. Users can use their own profile settings on any machine regardless of their location.

INTELLIGENT VIDEO ANALYSIS*

The modules in the SeeTec Analytics product range offer powerful video analysis to meet all demands. They facilitate the quick and reliable recognition of potential risk situations and enable targeted alarm handling. All analysis algorithms are configured directly through the SeeTec user interface

Monitor wall*

The MonitorWall extension is used for manual activation of live images on dedicated monitors or video walls. In large installations, this option permits simultaneous visualisation of multiple views on a video wall.

NAT support

With the NAT support, a SeeTec server can be accessed from a SeeTec client through the Internet, without needing a VPN connection.

Joystick control

PTZ and dome cameras can be controlled through the SeeTec software, using a monitoring joystick or operating panel. This enables even faster and more accurate camera positioning.

Door intercom systems

Door intercom systems can be used for bidirectional voice transmission through SIP/Voice or can be integrated for dooropening through potential-free contacts

Technical Data

Product	5	10	15	20	ProBox 25	30	35	40	50	Enterprise Edition	
Part number	S0200B1	S0200B2	S0200B3	S0200B4	S0200B5	S0200B7	S0200B8	S0200B9	S0200B11	S0200B0	
Number of camera channels	5	10	15	20	25	30	35	40	50	unlimited ¹	
Number of additional clients	2	3	3	4	4	5	5	6	7	unlimited ¹	
Number of I/O modules	1	3	3	4	5	5	5	5	5	unlimited	
Cascadable servers	n/a									yes ²	
Floor plans	n/a										
Complex alarm scenarios	n/a										
Encrypted transmission	n/a yes n/a yes										
Active Directory/LDAP	n/a									yes	
Guard patrols	n/a									yes	
SIP audio recording	n/a										
Monitor wall	<u>n/a</u> yes n/a yes²										
Product features					Expansions		Drol	Dov	Entornaio	o Edition	
							ProBox		Enterprise Edition		
Multi-monitor operation	yes					Just Watch Client Standard Client		n/a n/a		S0220B0 ³ S0220B2 ³	
Motion detection	yes (server or camera-based)					Master Client				S0220B2° S0220B33	
Video / Image export	JPEG, AVI				_	ProBox Client		n/a (supplied)		n/a	
viueu / illiage export	(depending on installed codecs)					Monitor Wall Client		(supplied)		S0220B43	
Audio export	WAV (depending on installed codecs)					Monitor Wall Manager		n/a n/a		S0250B5	
						SeeTec Anywhere USB		10/a S0291A13		\$029085 \$0291A13	
Storage media	DAS, NAS, SAN, DVR, IDE, SATA, SCSI Raid					SeeTec Anywhere NET		S0291A1° S0291A03		S0291A03	
Recordings can be used for	dential purposes yes cording Manual, permanent recording, alarm recording, time-controlled recording					Network camera		(supplied)		\$0291A0 ⁴	
evidential purposes						I/O-Module		(supplied)		S0250B0	
Recording						Floor plans		n/a		S0230A0	
					· · · · · · · · · · · · · · · · · · ·	addDatabase		n/a		S0240B0	
MPEG4 audio recording	yes				OPC Server	5		n/a		S0250B4	
Encrypted export	yes				SeeTec Analy	SeeTec Analytics Basic		n/a		S0290A34	
Automated export	yes				SeeTec Analy	SeeTec Analytics Premium		n/a		S0290A04	
Camera tamper monitoring	yes				SeeTec Analy	SeeTec Analytics Enterprise		n/a		S0290A14	
PTZ control	yes				Multi Streami	Multi Streaming		n.v.		S0250B104	
Interfaces to third-party systems	Fire, access control, intrusion, alarms, all detectors with potential-free contacts					SeeTec Multimedia Application Channel S0250B11 ⁴		B114	S0250B114		
Intelligent video sensors	Tripwire, Enters, Exits, Appears, Disappears, Loitering, Leave Behind, Take Away										
					Supported devices						
Maximum frame rate	Up to 3500 (dependent on hardware)				Network came	eras	ACTi Arecont Vision		JVC Lumenera		
per server (fps)							AXIS		Mobotix		
Frame rate per camera (fps) Maximum resolution		unlimited					Basler		Panasonic		
	(dependent on camera)							Bosch Cisco		PCS Convision Samsung	
	unlimited							Commend		Sanyo	
maximum resolution	(dependent on camera)						Dallmeier		Santec		
Video compression								Ganz		Siqura	
standards	MJPEG, MxPEG, MPEG4, H.263, H.264 (dependent on camera)						Grandeye Hikvision		Sony Vivotek		
						IQinVision		VIVOLON			
Multi-Streaming	yes			VoIP devices	VoIP devices		Behnke		Cyberdata		
Event management	yes, multi-level					Cisco		Mobotix			
Alarm forwarding	Email, SMS, SMTP, SNMP, http, TCP, OPC			-			Commend		Schneider Intercom		
Search criteria	Event, date, time, camera, each trigger, full-text			Intelligent vid	Intelligent video sensors		VIA:SYS SeeTec Analytics Basic		SeeTec Analytics Premium SeeTec Analytics Enterprise		
Joystick control	yes				Notwork 1/0	SeeTec Analytics Basic SeeTe Network I/O SeeTec			Seelet Allalylius E	iterhilse	
Server and client system	Microsoft Windows ® XP Pro from SP3 / Vista Pro and Ultimate7 Pro and Ultimate / 2003 Server / 2008 Server (32 bit and 64 bit)				Hardware I/O						
availability	Uitimat					Advantech ADAM					

¹Included in the basic package: 5 camera channels and 1 client ²Extension module ³Per client ⁴Per channel n/a = not available For more information on supported hardware please visit www.seetec.eu.

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Sales partner stamp

