

GUÍA DE PRODUCTOS
PRODUCT GUIDE 2014



SCATI

NEW EYES FOR NEW WORLDS



SCATI VISION

COMPACT SERIES

up to 16 CAMERAS

ANALOGUE, HYBRID & IP

Up to 3 TB storage

COMPACT SERIES SCATI VISION

SCATI VISION systems are powerful video recording and editing platforms specifically designed for large distributed facilities. Available with **analogue, IP and hybrid** technology, the devices in the **SCATI VISION Compact** series manage up to **16 megapixel cameras** with maximum performance and can be fitted with up to **3 TB** of storage.

With **SCATI VISION** preconfigured software, these devices offer a wide range of options for achieving **maximum performance from your CCTV system**, while also efficiently managing storage and bandwidth.

The **SCATI VISION Compact** series is fully integrated with SCATI Control Centre cameras and applications, and provides a complete and scalable video surveillance solution with seamless operation among its different components, specifically designed for **enterprise-class requirements**.



FUNCTIONAL FEATURES

MAXIMUM PERFORMANCE

Compact SCATI VISION recorders manage up to 16 megapixel cameras with full stability and incorporate advanced image processing algorithms. Their hardware is carefully designed, configured and tested to maximise capabilities and ensure reliable operation. Deployment is quick and simple thanks to pre-installed and pre-configured software. SCATI VISION enables the management, monitoring, search and export of video, either locally at the recorder, or remotely via SCATI VISION WEB or SCATI Control Centre applications, providing an ideal scalable system for distributed facilities.

INTELLIGENT RECORDING

SCATI VISION offers multiple recording setup options: continuous, scheduled and triggered by external event or image processing alarms (with configurable pre-recording time). It offers a configurable number of storage days to comply with legal requirements. It also features a high-frame-rate recording option, initiated in real-time by the operator. These options, together with the use of advanced compression standards (H.264, MPEG4), help significantly reduce storage space.

OPEN ARCHITECTURE

SCATI VISION can be integrated at any level with third-party systems (access controls, alarm systems, etc.) thanks to its SDK, creating complete solutions adapted to your needs. The I/O module provides immediate physical integration while the sending of third-party alarms through SCATI HUB allows you to automate actions and facilitate video searches by marking the recording with events.

LOCAL OR REMOTE MONITORING

SCATI VISION is able to serve video simultaneously to multiple customers and limit transmission to the available bandwidth. Its intuitive local interface includes features such as full screen, mask, hide cameras, camera rounds, etc. SCATI VISION streamlines incident verification by notifying operators of events, showing them the related video. It also allows local and remote PTZ control according to the ONVIF standard, compatible with most cameras on the market.

RELIABILITY AND SECURITY

SCATI VISION incorporates a HeartBeat to ensure its continuous operation and reports its technical alarms (temperature, disc status, UPS, camera without signal, etc.) in real time to SCATI applications or to emails, and registers them in an alarm log. For secure and flexible management, it has a system of unlimited users and groups, with fully configurable permissions, as well as a log of actions performed on the device.

SCATI VISION

COMPACT SERIES

AVAILABLE MODELS



VS104-XPE-N01



VS304-XPE-T01

SYSTEM

	Standard	Smart
Box	Standard	Smart
Type of server	Analogue/Hybrid server	Analogue/Hybrid server
Operating system	Microsoft Windows XP Embedded	Microsoft Windows XP Embedded
Processor	Intel® Atom D525 1.8 GHz	Intel® Atom N270 1.6GHz
Memory	1 GB	1 GB
Network interface	1 Gigabit Ethernet RJ-45 port (10/100/1000Base-T)	2 Gigabit Ethernet RJ-45 ports (10/100/1000Base-T)
Serial ports	2 serial RS-232 ports	4 serial RS-232 ports
USB	2 USB ports	4 USB ports
Video inputs	Up to 4 BNC 1.0 Vpp, 75 •	Up to 4 BNC 1.0 Vpp, 75 • Up to 2 IP channels (Hybrid server)
Video outputs	1 VGA	1 VGA
Video capture	17/20 fps/channel @ 4CIF resolution	17/20 fps/channel @ 4CIF resolution
Storage	Up to 1 2.5" HDD Max. 1 TB storage	Up to 1 2.5" HDD Max. 1 TB storage
Audio I / O	1 minijack stereo input / 1 minijack stereo output	1 minijack stereo input / 1 minijack stereo output
Sensors	Up to 20 programmable inputs, via optional external device	Up to 20 programmable inputs, via optional external device
Relays	Up to 20 programmable outputs, via optional external device	Up to 20 programmable outputs, via optional external device

MECHANICAL

	Compact	Compact
Form factor	Compact	Compact
Dimensions	50 H x 275 W x 172 D mm	75 H x 300 W x 200 D mm
Net weight	2 Kg	3.3 Kg

ELECTRICAL

	Internal power supply	Internal power supply
Power supply	Internal power supply	Internal power supply
Power input	12 V DC	12 V DC
Power consumption	60 W max.	60 W max.

CERTIFICATIONS

	FCC, CE, RoHS	FCC, CE, RoHS
Certifications	FCC, CE, RoHS	FCC, CE, RoHS

ORDERING INFORMATION

The references for the available Compact SCATI VISION models are specified below.

VS104-XPE-N01

Video recorder-player and editor for 4/16 analogue cameras in Standard box. Hybrid-convertible (up to 2 additional IP channels) Up to 1 TB storage.

VS304-XPE-T01

Video recorder-player and editor for 4 analogue cameras in Smart box. Hybrid-convertible (up to 2 additional IP channels) Up to 1 TB storage.

LIC-IP-1CH

Single IP recording license for SCATI VISION recorder.

IP additional channels require software activation through LIC-IP-1CH license.

SCATI VISION

COMPACT SERIES

AVAILABLE MODELS



**VS(XXX)-W7E-M01
VSJ-W7E-M01**



VSJ-W7E-M02

SYSTEM

Box	Minicompact	Minicompact Fanless
Type of server	Analogue/Hybrid server: VS304-W7E-M01 / VS316-W7E-M01 / VS508-W7E-M01 IP server: VSJ-W7E-M01	IP server
Operating system	Microsoft Windows 7 Embedded	Microsoft Windows 7 Embedded
Processor	Intel® Dual-core Celeron® 1037U 1.8 GHz	Intel® Dual-core Celeron® 1037U 1.8 GHz
Memory	2 GB	2 GB
Network interface	2 Gigabit Ethernet RJ-45 ports (10/100/1000Base-T)	2 Gigabit Ethernet RJ-45 ports (10/100/1000Base-T)
Serial ports	1 serial RS-232 port	1 serial RS-232 port
USB	4 USB ports	4 USB ports
Video inputs	Analogue/Hybrid server: 4, 8 or 16 BNC, 1.0 Vpp, 75 • and up to 2 IP channels IP server: Up to 16 IP channels	Up to 16 IP channels
Video outputs	1 VGA + 1 HDMI	1 VGA + 1 HDMI
Video capture	VS304-W7E-M01 / VS316-W7E-M01: 17/20 fps/channel @ 4CIF resolution and 25/30 fps/channel @ CIF resolution VS508-W7E-M01 / VSJ-W7E-M01: up to 25/30 fps/channel @ megapixel resolution	Up to 25/30 fps/channel @ megapixel resolution
Storage	Up to 1 3.5" HDD Max. 3 TB storage	Up to 1 2.5" HDD Max. 1 TB storage
Audio I / O	1 minijack stereo input / 1 minijack stereo output	1 minijack stereo input / 1 minijack stereo output
Sensors	Up to 20 programmable inputs, via optional external device	Up to 20 programmable inputs, via optional external device
Relays	Up to 20 programmable outputs, via optional external device	Up to 20 programmable outputs, via optional external device

MECHANICAL

Form factor	Compact	Compact
Dimensions	63,5 H x 265 W x 295 D mm	66 H x 251 W x 200 D mm
Net weight	2.68 Kg	2.33 Kg

ELECTRICAL

Power supply	Internal power supply	Internal power supply
Power input	11.4 - 12.6 V DC	11.4 - 12.6 V DC
Power consumption	80 W max.	80 W max.

CERTIFICATIONS

Certifications	FCC, CE, RoHS	FCC, CE, RoHS
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ORDERING INFORMATION

The references for the available Compact SCATI VISION models are specified below.

VS304-W7E-M01/ VS316-W7E-M01

Video recorder-player and editor for 4/16 analogue cameras in Minicompact box. Hybrid-convertible (up to 2 additional IP channels) Up to 3 TB storage.

VS508-W7E-M01

Video recorder-player and editor for 8 analogue cameras in Minicompact box. Advanced video capture card. Hybrid-convertible (up to 2 additional IP channels) Up to 3 TB storage.

VSJ-W7E-M01

Video recorder-player and editor for 4 IP cameras in Minicompact box. Expandable up to 16 channels. Up to 3 TB storage.

VSJ-W7E-M02

Video recorder-player and editor for 4 IP cameras in Minicompact Fanless box. Expandable up to 16 channels. Up to 1 TB storage.

IP additional channels require software activation through LIC-IP-1CH license.

SCATI VISION

COMPACT SERIES

AVAILABLE MODELS



VS(XXX)-W7E-C01
VSJ-W7E-C01

SYSTEM

Box	Soho
Type of server	Analogue/Hybrid server: VS304-W7E-C01 / VS316-W7E-C01 / VS508-W7E-C01 IP server: VSJ-W7E-C01
Operating system	Microsoft Windows 7 Embedded
Processor	Intel® Pentium® G3220 Haswell Dual-core 3.0 GHz
Memory	2 GB
Network interface	1 Gigabit Ethernet RJ-45 port (10/100/1000Base-T)
Serial ports	2 serial RS-232 ports
USB	4 USB 2.0 ports 2 USB 3.0 ports
Video inputs	Analogue/Hybrid server: 4, 8 or 16 BNC, 1.0 Vpp, 75 • and up to 4 IP channels (Hybrid server) IP server: up to 16 IP channels
Video outputs	1 VGA + 1 DVI-D + 1 HDMI
Video capture	VS304-W7E-C01 / VS316-W7E-C01: 17/20 fps/channel @ 4CIF resolution and 25/30 fps/channel @ CIF resolution VS508-W7E-C01 / VSJ-W7E-C01: up to 25/30 fps/channel @ megapixel resolution
Storage	Up to 1 3.5" HDD Max. 3 TB storage
Audio I / O	1 minijack stereo input / 1 minijack stereo output
Sensors	Up to 20 programmable inputs, via optional external device
Relays	Up to 20 programmable outputs, via optional external device

MECHANICAL

Form factor	Compact
Dimensions	94 H x 330 W x 320 D mm
Net weight	6.2 Kg

ELECTRICAL

Power supply	Internal power supply
Power input	100 - 240 V AC, 50 - 60 Hz
Power consumption	720 W max.

CERTIFICATIONS

Certifications	FCC, CE, RoHS
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ORDERING INFORMATION

The references for the available Compact SCATI VISION models are specified below.

VS304-W7E-C01/ VS316-W7E-C01

Video recorder-player and editor for 4/16 analogue cameras in Soho box. Hybrid-convertible (up to 4 additional IP channels) Up to 3 TB storage.

VS508-W7E-C01

Video recorder-player and editor for 4/16 analogue cameras in Soho box. Advanced video capture card. Hybrid-convertible (up to 4 additional IP channels) Up to 3 TB storage.

VSJ-W7E-C01

Video recorder-player and editor for 4 IP cameras in Soho box. Expandable up to 16 channels. Up to 3 TB storage.

IP additional channels require software activation through LIC-IP-1CH license.



SCATI VISION

STANDARD SERIES

up to 32 CAMERAS
ANALOGUE, HYBRID & IP
Up to 24 TB storage

STANDARD SERIES SCATI VISION

SCATI VISION systems are powerful video recording and editing platforms specifically designed for large distributed facilities. Available with **analogue, IP and hybrid** technology, the devices in the **SCATI VISION Standard** series manage up to **32 megapixel cameras** with maximum performance and can be fitted with up to **24 TB** of storage.

With **SCATI VISION** preconfigured software, these devices offer a wide range of options for achieving **maximum performance from your CCTV system**, while also efficiently managing storage and bandwidth.

The **SCATI VISION Standard** series is fully integrated with SCATI Control Centre cameras and applications, and provides a complete and scalable video surveillance solution with seamless operation among its different components, specifically designed for **enterprise-class requirements**.



FUNCTIONAL FEATURES

MAXIMUM PERFORMANCE

Standard SCATI VISION recorders manage up to 32 megapixel cameras with full stability and incorporate advanced image processing algorithms. Their hardware is carefully designed, configured and tested to maximise capabilities and ensure reliable operation. Deployment is quick and simple thanks to pre-installed and pre-configured software. SCATI VISION enables the management, monitoring, search and export of video, either locally at the recorder, or remotely via SCATI VISION WEB or SCATI Control Centre applications, providing an ideal scalable system for distributed facilities.

INTELLIGENT RECORDING

SCATI VISION offers multiple recording setup options: continuous, scheduled and triggered by external event or image processing alarms (with configurable pre-recording time). It offers a configurable number of storage days to comply with legal requirements. It also features a high-frame-rate recording option, initiated in real-time by the operator. These options, together with the use of advanced compression standards (H.264, MPEG4), help significantly reduce storage space.

OPEN ARCHITECTURE

SCATI VISION can be integrated at any level with third-party systems (access controls, alarm systems, etc.) thanks to its SDK, creating complete solutions adapted to your needs. The I/O module provides immediate physical integration while the sending of third-party alarms through SCATI HUB allows you to automate actions and facilitate video searches by marking the recording with events.

LOCAL OR REMOTE MONITORING

SCATI VISION is able to serve video simultaneously to multiple customers and limit transmission to the available bandwidth. Its intuitive local interface includes features such as full screen, mask, hide cameras, camera rounds, etc. SCATI VISION streamlines incident verification by notifying operators of events, showing them the related video. It also allows local and remote PTZ control according to the ONVIF standard, compatible with most cameras on the market.

RELIABILITY AND SECURITY

SCATI VISION incorporates a HeartBeat to ensure its continuous operation and reports its technical alarms (temperature, disc status, UPS, camera without signal, etc.) in real time to SCATI applications or to emails, and registers them in an alarm log. For secure and flexible management, it has a system of unlimited users and groups, with fully configurable permissions, as well as a log of actions performed on the device.

SCATI VISION

STANDARD SERIES

AVAILABLE MODELS



VS600-W7E-X01
VSJ-W7E-X01



VSJ-W7E-RM1

SYSTEM

	VS600-W7E-X01	VSJ-W7E-RM1
Box	X600	Rack Pro
Type of server	Analogue/Hybrid server: VS600-W7E-X01 IP server: VSJ-W7E-X01	IP server
Operating system	Microsoft Windows 7 Embedded	Microsoft Windows 7 Embedded
Processor	Intel® i3-330E 2.13GHz	Intel® Core™ i7-3820 3.80 GHz
Memory	2 GB	4 GB
Network interface	2 Gigabit Ethernet RJ-45 ports (10/100/1000Base-T)	2 Gigabit Ethernet RJ-45 ports (10/100/1000Base-T)
Serial ports	1 serial RS-232 port	1 serial RS-232 port
USB	4 USB 2.0 ports	6 USB 2.0 ports 4 USB 3.0 ports
Video inputs	Analogue/Hybrid server: 16 BNC 1.0 Vpp, 75 Ω and IP additional channels up to 32 channels in total (Hybrid server) IP server: up to 32 channels	Up to 32 IP channels
Video outputs	1 VGA + 1 HDMI	1 VGA + 1 DVI-I + 1 HDMI
Video capture	Up to 25/30 fps/channel @ megapixel resolution	25/30 fps/channel @ megapixel resolution
Audio I / O	1 MiniJack stereo input / 1 MiniJack stereo output	1 MiniJack stereo input / 1 MiniJack stereo output
Storage	Up to 8 3.5" HDD Max. 24 TB storage	Up to 4 3.5" HDD Max. 12 TB storage
Sensors	16 programmable inputs available, expandable up to 20	Up to 20 programmable inputs, via optional external device
Relays	4 programmable inputs available, expandable up to 20	Up to 20 programmable outputs, via optional external device

MECHANICAL

	VS600-W7E-X01	VSJ-W7E-RM1
Form factor	2U rack	4U rack
Dimensions	90 H x 441 W x 470 D mm	177.8 H x 482.6 W x 505 D mm
Net weight	8 Kg	17.2 Kg

ELECTRICAL

	VS600-W7E-X01	VSJ-W7E-RM1
Power supply	Internal power supply	Internal power supply
Power input	100 – 240 V AC, 47 - 63 Hz	115 - 230 V AC, 50 - 60 Hz
Power consumption	110 W max. (without hard disk)	750 W max.

CERTIFICATIONS

	VS600-W7E-X01	VSJ-W7E-RM1
Certifications	FCC, CE, RoHS	FCC, CE, RoHS

ORDERING INFORMATION

The references for the available Standard SCATI VISION models are specified below.

VS600-W7E-X01

Video recorder-player and editor for 4 analogue cameras in X600 box. Hybrid-convertible (up to 32 channels, from which up to 16 may be analogue and the rest IP) Up to 24 TB storage.

VSJ-W7E-X01

Video recorder-player and editor for 4 IP cameras in X600 box. Expandable up to 32 channels. Up to 24 TB storage.

VSJ-W7E-RM1

Video recorder-player and editor for 4 IP cameras in Rack Pro box. Expandable up to 32 channels. Up to 12 TB storage.

LIC-ANALOG-1CH

Single analogue recording license for SCATI VISION recorder.

LIC-IP-1CH

Single IP recording license for SCATI VISION recorder.

Both analogue and IP additional channels require software activation through LIC-ANALOG-1CH y LIC-IP-1CH licenses.



SCATI VISION

HIGH PERFORMANCE SERIES



up to 32 CAMERAS

Hardware REDUNDANCY

Up to 48 TB storage

HIGH PERFORMANCE SERIES SCATI VISION

Los **SCATI VISION** systems are powerful video recording and editing platforms specifically designed for large distributed facilities. Based upon the most advanced **IP technology**, the devices in the **SCATI VISION High Performance** series manage up to **32 megapixel cameras** with maximum performance and can be fitted with up to **48 TB** of storage.

With **SCATI VISION** preconfigured software, these devices offer a wide range of options for achieving **maximum performance from your CCTV system**, while also efficiently managing storage and bandwidth.

The **SCATI VISION High Performance** series is fully integrated with SCATI Control Centre cameras and applications, and provides a complete and scalable video surveillance solution with seamless operation among its different components, specifically designed for **enterprise-class requirements**.



FUNCTIONAL FEATURES

MAXIMUM PERFORMANCE

High Performance SCATI VISION recorders manage up to 32 megapixel cameras with full stability and incorporate advanced image processing algorithms. Their hardware is carefully designed, configured and tested to maximise capabilities and ensure reliable operation. Deployment is quick and simple thanks to pre-installed and pre-configured software. SCATI VISION enables the management, monitoring, search and export of video, either locally at the recorder, or remotely via SCATI VISION WEB or SCATI Control Centre applications, providing an ideal scalable system for distributed facilities.

INTELLIGENT RECORDING

SCATI VISION offers multiple recording setup options: continuous, scheduled and triggered by external event or image processing alarms (with configurable pre-recording time). It offers a configurable number of storage days to comply with legal requirements. It also features a high-frame-rate recording option, initiated in real-time by the operator. These options, together with the use of advanced compression standards (H.264, MPEG4), help significantly reduce storage space.

OPEN ARCHITECTURE

SCATI VISION can be integrated at any level with third-party systems (access controls, alarm systems, etc.) thanks to its SDK, creating complete solutions adapted to your needs. The I/O module provides immediate physical integration while the sending of third-party alarms through SCATI HUB allows you to automate actions and facilitate video searches by marking the recording with events.

LOCAL OR REMOTE MONITORING

SCATI VISION is able to serve video simultaneously to multiple customers and limit transmission to the available bandwidth. Its intuitive local interface includes features such as full screen, mask, hide cameras, camera rounds, etc. SCATI VISION streamlines incident verification by notifying operators of events, showing them the related video. It also allows local and remote PTZ control according to the ONVIF standard, compatible with most cameras on the market.

RELIABILITY AND SECURITY

SCATI VISION incorporates a HeartBeat to ensure its continuous operation and reports its technical alarms (temperature, disc status, UPS, camera without signal, etc.) in real time to SCATI applications or to emails, and registers them in an alarm log. For secure and flexible management, it has a system of unlimited users and groups, with fully configurable permissions, as well as a log of actions performed on the device.

SCATI VISION

HIGH PERFORMANCE SERIES

AVAILABLE MODELS



VSJ-W7E-SM1
VSJ-W7E-SM2

SYSTEM

Box	RAID
Type of server	IP server
Operating system	Microsoft Windows 7 Embedded
Processor	Intel® Xeon® CPU E5-2620
Memory	16 GB
Network interface	4 Gigabit Ethernet RJ-45 ports (10/100/1000Base-T)
USB	4 USB ports
Video inputs	Up to 32 IP channels
Video outputs	1 VGA
Storage	-SM1: Up to 8 HDDs (up to 4 TB each). Max. 32 TB raw -SM2: Up to 12 HDDs (up to 4 TB each). Max. 48 TB raw
Storage redundancy	Hot Swap RAID 6 redundant Hard Drives
Audio I / O	1 MiniJack stereo input / 1 MiniJack stereo output
Sensors	Up to 20 programmable inputs, via optional external device
Relays	Up to 20 programmable outputs, via optional external device

MECHANICAL

Form factor	2U rack
Dimensions	89 H x 437 W x 648 D mm
Net weight	-SM1: 23.6 Kg (52 lbs) -SM2: 20.9 Kg (46 lbs)

ELECTRICAL

Power supply	Redundant high-efficiency power supply
Power input	100 - 240 V AC, 50 - 60 Hz
Power consumption	-SM1: 740 W -SM2: 920 W
System cooling	3x (80 x 38 mm) 4-pin PWM Fans

ENVIRONMENTAL

Operating Temperature	10°C - 35°C (50°F - 95°F)
Operating humidity	5% - 95% (non-condensing)
Certifications	FCC, CE, RoHS

ORDERING INFORMATION

The references for the available High Performance SCATI VISION models are specified below.

VSJ-W7E-SM1

Video recorder-player and editor for 4 IP cameras in RAID box. Expandable up to 32 channels. Up to 32 TB storage.

VSJ-W7E-SM2

Video recorder-player and editor for 4 IP cameras in RAID box. Expandable up to 32 channels. Up to 48 TB storage.

LIC-IP-1CH

Single IP recording license for SCATI VISION recorder.

IP additional channels require software activation through LIC-IP-1CH license.



KRAKEN

ENTERPRISE-CLASS RECORDING

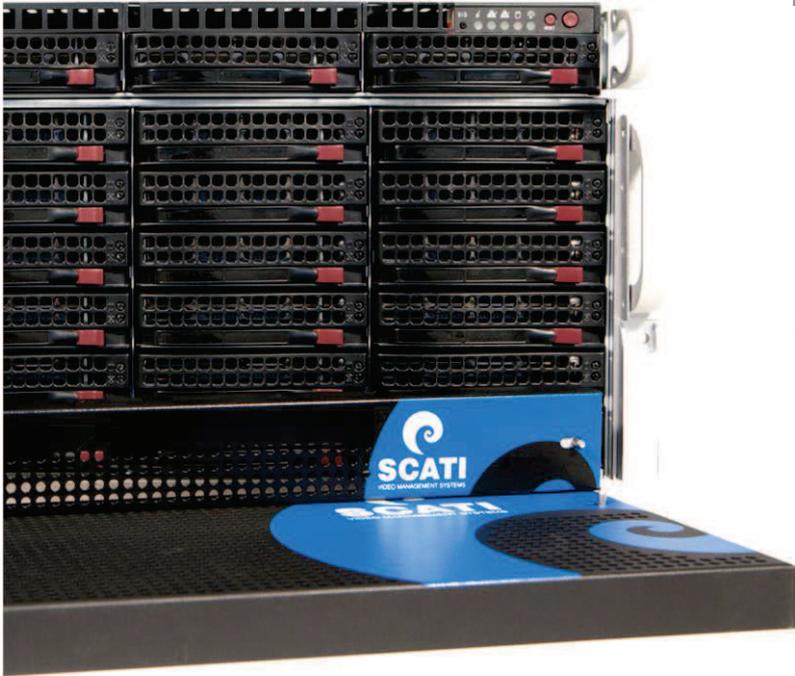
total reliability
RAID 6

up to
256
IP CAMERAS

up to
1 GBPS
throughput



SCATI VISION NVR KRAKEN



KRAKEN is a professional recording platform designed for **complex security projects** with thousands of cameras installed in different types of environments and a single **mass recording** system. KRAKEN maximises uninterrupted operation in the event of failures thanks to its hardware redundancy implementation and **RAID 6 configuration**, making it ideal in mission-critical video surveillance operations. KRAKEN is perfectly integrated with SCATI Control Centre applications, providing an optimum **complete video surveillance solution** for enterprise-class facilities.

MAXIMUM PERFORMANCE

Each KRAKEN server is able to support up to 256 megapixel cameras with a throughput of 1 Gbps. This is possible thanks to the optimum use of resources by KRAKEN SCATI VISION software, which offers maximum data I/O capabilities with complete stability. This efficient management together with the selection of powerful servers with 2 Intel® Xeon® processors, 16 GB of RAM and 16 GB Linux on SSD operating system help create a mass recording platform able to meet the demands of the most advanced facilities.

TOTAL RELIABILITY

KRAKEN is designed to provide mission-critical facilities with full reliability, maximising the continuous operation time of the system thanks to the redundancy of power supply, network card and cooling system. Its RAID 6 storage configuration protects the system in the event of failure while maximising disk space. All of this is accompanied by the SCATI VISION self-diagnosis features which continuously monitors the software status for complete security.

UNLIMITED SCALABILITY

The modular and flexible architecture of KRAKEN enables the simple and gradual scaling of CCTV systems, adapting to any future need that might arise. The KRAKEN structure consists of recording servers that can be connected to up to 3 cascaded storage chassis. This architecture provides maximum efficiency,

with up to 384 TB per block, and modularity, adapting to the current and future storage needs of each installation.

COST REDUCTION

The large number of cameras managed by each server reduces costs by lowering the number of devices per camera, and also leads to savings in power, space and maintenance. The efficient storage architecture, with up to 3 secondary chassis for each server, offers maximum storage per block with a single controller. In addition, the KRAKEN units themselves offer more over 90% energy-efficiency, comfortably surpassing that of other servers. All this leads to a significant reduction in the cost per camera of your system.

ALL THE FEATURES OF SCATI VISION

KRAKEN offers all the administration tools of SCATI VISION software, and is integrated with SCATI Control Centre applications for centralised management. These features together with its high performance, reliability and scalability make KRAKEN the optimum video management platform for large security installations.

SCATI VISION NVR KRAKEN

SYSTEM	
Box	KRAKEN server
Type of server	IP server
Operating system	Linux
Processor	1x Intel® Xeon® E5-2620
Memory	16 GB
Network interface	4x RJ45 Gigabit Ethernet ports
USB	4 USB ports
Serial ports	1 serial port
Video inputs	Up to 256 IP channels
Video outputs	1 VGA
Sensors	Up to 20 programmable inputs, via optional external device
Relays	Up to 20 programmable outputs, via optional external device
STORAGE	
Internal storage	Up to 96 TB raw (depending on the model)
External storage	- SM2, -SM4: up to 3 external SAS storage units, Max. 384 TB raw storage per block
Network storage technology	SAS
Storage redundancy	RAID 6 configuration Hot-swappable Drives
Hot-Swap	3.5" SAS / SATA Hot-swap drive bays
Backplane	- SM1: 2U SAS backplane w/ Enclosure Management - SM2: 2U expander SAS/SATA backplane - SM4: 4U expander SAS/SATA backplane
MECHANICAL	
Form factor	- SM1, - SM2: 2U, rack mount - SM4: 4U, rack mount
Dimensions	- SM1, -SM2: 437 W x 89 H x 648 D mm - SM4: 437 W 178 H x 660 D mm
Net weight	- SM1: 23.6 Kg - SM2: 20.9 Kg - SM4: 34 Kg
ELECTRICAL	
Power supply	- SM1: 740 W redundant high-efficiency (94 %) power supply with PMBus - SM2, -SM4: 920 W redundant high-efficiency (94 %) power supply with PMBus
Power input	100 - 240 V AC, 50 - 60 Hz
System cooling	- SM1: 3x 80 x 38 mm 4-pin PWM Fans - SM2: 3x 80 mm 7K RPM chassis middle fan w/ housing - SM4: 3x 80mm Hot-swap 4-pin PWM Fans 2x 80mm Rear-exhaust 4-pin PWM Fans
ENVIRONMENTAL	
Operating temperature	5°C - 35°C (41°F - 95°F)
Operating humidity	8% ~ 90% (non-condensing)
CERTIFICATIONS	
Certifications	CE, FCC, RoHS

SERVERS

Los potentes servidores KRAKEN están disponibles con diferentes capacidades de almacenamiento: desde 8 TB hasta 96 TB.



VSK-LXU-SM1

- Box KRAKEN SM1 SERVER
- HBA ARC-1882i (8 int)
- Internal storage Up to 8 3.5" SAS2 HDDs, (up to 4 TB each)
Up to 32 TB raw
Hot Swap, RAID 6 configuration



VSK-LXU-SM2

- Box KRAKEN SM2 SERVER
- HBA ARC-1882LP (4 int / 4 ext)
- Internal storage Up to 12 3.5" SAS2 HDDs, (up to 4 TB each)
Up to 48 TB raw
Hot Swap, RAID 6 configuration
- External storage Up to 3 external SAS storage units
Max. 336 TB raw storage per block



VSK-LXU-SM4

- Box KRAKEN SM4 SERVER
- HBA ARC-1882LP (4 int / 4 ext)
- Internal storage Up to 24 3.5" SAS2 HDDs, (up to 4 TB each)
Up to 96 TB raw
Hot Swap, RAID 6 configuration
- External storage Up to 3 external SAS storage units
Max. 384 TB raw storage per block

SCATI VISION NVR KRAKEN

EXTERNAL STORAGE CHASSIS

Up to 3 cascaded external storage chassis can be directly connected to SM2 or SM4 KRAKEN servers using SAS technology.



ST- iSAS

Box	ISCSI SECONDARY CHASSIS
HBA	-
Storage	24/48/72/96 HDD up to 4 TB each 96 TB raw total
Host interface	2x 6-Gb SAS
HDD interface	6-Gb SAS 24x 3.5" SAS2 / SATA3 HDDs
Form factor	4U rack-mountable
Dimensions	4U x 660 mm
Net weight	34 Kg
Power supply	2x 900 W High Efficiency Power Supply 100 - 240 V AC, 50 - 60 Hz
Operating conditions	5°C - 35°C Humidity: 20% - 80%, non-condensing
Certifications	FCC, CE, RoHS

ORDERING INFORMATION

The references for the available SCATI VISION KRAKEN models are specified below:

VSK-LXU-SM1

Video recorder-player and editor for up to 256 IP cameras via SCATI VISION LIC-KRAKEN-1CH licenses. Includes up to 8 4-TB SAS HDD, Hot-swap with redundancy.

VSK-LXU-SM2

Video recorder-player and editor for up to 256 IP cameras via SCATI VISION LIC-KRAKEN-1CH licenses. Includes up to 12 4-TB SAS HDD, Hot-swap with redundancy.

VSK-LXU-SM4

Video recorder-player and editor for up to 256 IP cameras via SCATI VISION LIC-KRAKEN-1CH licenses. Includes up to 24 4-TB SAS HDD, Hot-swap with redundancy.

ST-iSAS

Secondary chassis for external storage via SAS.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ADDITIONAL CHANNELS

IP additional channels require software activation through LIC-KRAKEN-1CH licenses.

LIC-KRAKEN-1CH

Single IP recording license for SCATI VISION KRAKEN recorder.

Rev. 0

All characteristics and technical specifications may be subject to modifications considered necessary by the manufacturer to improve the product. The information in this datasheet is indicative and is declared to be valid except for typographic errors. All brand and product names in this datasheet are property of Scati labs, S.A. and their use without prior permission is strictly forbidden. For further information, please contact info@scati.com.



KRAKEN HA

ENTERPRISE-CLASS RECORDING

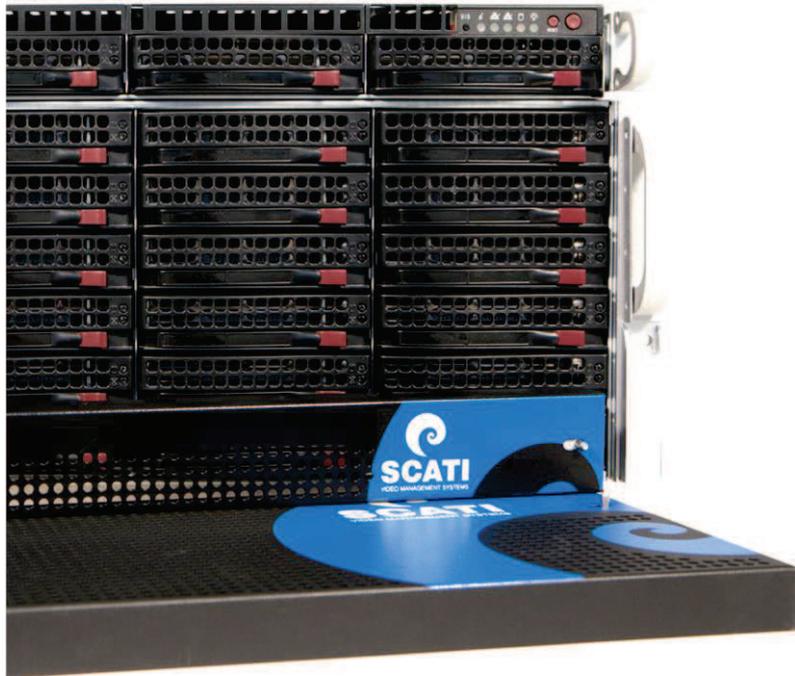
total reliability
HIGH AVAILABILITY

up to
512
IP CAMERAS

up to
2 GBPS
throughput



NVR KRAKEN HA



KRAKEN HA is a professional recording platform designed for **complex security projects** with thousands of cameras installed in different types of environments and a single **mass recording** system. KRAKEN HA provides these systems with **high availability**, ensuring uninterrupted operation in the event of failures, making it ideal in mission-critical video surveillance operations. KRAKEN HA is perfectly integrated with SCATI Control Centre applications, providing an optimum **complete video surveillance solution** for enterprise-class facilities.

MAXIMUM PERFORMANCE

Each KRAKEN HA server is able to support up to 512 megapixel cameras with the best throughput in the market: 2 Gbps. This is possible thanks to the optimum use of resources by KRAKEN SCATI VISION software, which offers maximum data I/O capabilities with complete stability. This efficient management together with the selection of powerful servers with 2 Intel® Xeon® processors, 64 GB of RAM and 16 GB Linux on SSD operating system help create a mass recording platform able to meet the demands of the most advanced facilities.

TOTAL RELIABILITY

KRAKEN HA is designed to provide mission-critical facilities with full reliability, ensuring the continuous operation of the system thanks to its advanced server failover mechanisms. These are optimised to maximise the capabilities of the servers thanks to design with load balancing. The devices also have RAID 6 storage configuration and hardware redundancy at other multiple levels. All of this is accompanied by the SCATI VISION self-diagnosis features which continuously monitors the software status for complete security.

UNLIMITED SCALABILITY

The modular and flexible architecture of KRAKEN HA enables the simple and gradual scaling of CCTV systems, adapting to any future need that might arise. The KRAKEN HA structure consists of recording servers that can be connected to blocks of up to 4

cascaded storage chassis. This architecture provides maximum efficiency, with up to 384 TB per block, and modularity, adapting to the current and future storage needs of each installation.

COST REDUCTION

The large number of cameras managed by each server reduces costs by lowering the number of devices per camera, and also leads to savings in power, space and maintenance. The efficient storage architecture, with up to 3 secondary chassis for each main chassis, offers maximum storage per block with a single controller. In addition, the KRAKEN HA devices themselves offer more over 90% energy-efficiency, comfortably surpassing that of other servers. All this leads to a significant reduction in the cost per camera of your system.

ALL THE FEATURES OF SCATI VISION

KRAKEN offers all the administration tools of SCATI VISION software, and is integrated with SCATI Control Centre applications for centralised management. These features together with its high performance, reliability and scalability make KRAKEN HA the optimum video management platform for large security installations.

SCATI VISION NVR KRAKEN HA

SYSTEM	
Box	KRAKEN HA server
Type of server	High Availability IP server
Operating system	Linux
Processor	2x Intel® Xeon® E5-2650
Memory	64 GB
Network interface	2x RJ45 10GBase-T ports 2x RJ45 Gigabit Ethernet LAN ports 2x 10 GB 2 port PCI-E (RJ45) additional network card
USB	4 USB ports
Serial ports	1 serial port
Video inputs	Up to 512 IP channels
Video outputs	1 VGA
Sensors	Up to 20 programmable inputs, via optional external device
Relays	Up to 20 programmable outputs, via optional external device
STORAGE	
Internal storage	-
External storage technologies	SAS / iSCSI / Fibre Channel
External storage redundancy	RAID 6 configuration Hot-swappable Drives
MECHANICAL	
Form factor	1U, rack mount Up to 4x 4U rack-mounted chassis per server
Dimensions	437 W x 43 H x 705 D mm
Net weight	19.45 Kg
ELECTRICAL	
Power supply	(1 + 1) Redundant high-efficiency (94 %) power supply
Power input	700 W: 100 - 140 V AC, 50 - 60 Hz 750 W: 180 - 240 V AC, 60 - 50 Hz
Power consumption	700 W / 750 W
System cooling	6x 4 cm Counter-rotating PWM fans
ENVIRONMENTAL	
Operating temperature	5°C - 35°C (41°F - 95°F)
Storage temperature	-40°C to 60°C (-40°F to 140°F)
Operating humidity	8% - 90% (non-condensing)
Storage humidity	5% - 95% (non-condensing)
CERTIFICATIONS	
Certifications	CE, FCC, RoHS

SERVERS

The powerful High Availability KRAKEN HA servers are available with 3 network storage technologies: **SAS**, **iSCSI** or **Fibre Channel**. They can also be configured in failover mode via the corresponding licenses.

Servers are connected to the main **chassis for external storage** through direct attachment (SAS) or via iSCSI/Fibre Channel switches. This enables access to the storage from different servers, constituting a Network Storage environment. Each main chassis can be connected to up to 3 cascaded secondary chassis, with a total of **384 TB** per block.



VSK-LXU-SM0-SAS

- Box KRAKEN HA SAS SERVER
- HBA ARC-1320-8x / 2x SFF-8088 Ext
- Storage SAS



VSK-LXU-SM0-iSCSI

- Box KRAKEN HA iSCSI SERVER
- HBA -
- Storage iSCSI



**VSK-LXU-SM0-FC
VSK-LXU-SM0-FC2**

- Box KRAKEN HA FIBRE CHANNEL SERVER
- HBA - FC model: QLE2560-CK 8 Gb Single port PCI-e
- FC2 model: QLE2562-CK 8 Gb Dual port PCI-e FC
- Storage Fibre Channel

SCATI VISION NVR KRAKEN HA

MAIN CHASSIS



ST- SAS



ST-iSCSI



**ST-FC
ST-FC2**

Box	SAS MAIN CHASSIS	ISCSI MAIN CHASSIS	FIBRE CHANNEL MAIN CHASSIS
HBA	1	-	- FC model: Single 8-Gbps Fibre Channel Port - FC2 model: Dual 8-Gbps Fibre Channel Port
System	1 Processor 8 GB RAM	2 Processors 16 GB RAM	1 Processor 8 GB RAM
Storage	24/48/72/96 HDD up to 4 TB each 96 TB raw total	24/48/72/96 HDD up to 4 TB each 96 TB raw total	24/48/72/96 HDD up to 4 TB each 96 raw TB total
RAID configuration	RAID 6 configuration	RAID 6 configuration	RAID 6 configuration
Host interface	2x miniSAS	2x Ethernet 1 Gb ports	4x 8-Gb Fibre Channel ports per controller (HBA)
HDD interface	24x 6-Gb SAS / 6-Gb SATA HDDs 2x miniSAS (4x 6 Gb) expansion ports per controller (HBA) Locked tray which supports 2.5" and 3.5" HDDs	24x 3.5" SAS2 HDDs 1 channel per Disk	24x 6-Gb SAS / 6-Gb SATA HDDs 2x miniSAS (4x 6 Gb) expansion ports per controller (HBA) Locked tray which supports 2.5" and 3.5" HDDs
Form factor	4U rack-mountable	4U rack-mountable	4U rack-mountable
Dimensions	4U x 517 mm	4U x 660 mm	4U x 517mm
Net weight	34 Kg	34 Kg	34 Kg
Power supply	2x 500 W High Efficiency Power Supply 100 - 240 V AC, 50 - 60 Hz	2x 900 W High Efficiency Power Supply 100 - 240 V AC, 50 - 60 Hz	2x 500 W High Efficiency Power Supply 100 - 240 V AC, 50 - 60 Hz
Operating conditions	5°C - 35°C Humidity: 20% - 80%, non-condensing	5°C - 35°C Humidity: 20% - 80%, non-condensing	5°C - 35°C Humidity: 20% - 80%, non-condensing
Certifications	FCC, CE, RoHS	FCC, CE, RoHS	FCC, CE, RoHS

SECONDARY CHASSIS



ST- SSAS



ST-iSAS



**ST-FSAS
ST-F2SAS**

Box	SAS SECONDARY CHASSIS	ISCSI SECONDARY CHASSIS	FIBRE CHANNEL SECONDARY CHASSIS
HBA	1 per expansion I/O module	-	- FSAS model: 1 per expansion I/O module - F2SAS model: 2 per expansion I/O module
Storage	24/48/72/96 HDD up to 4 TB each 96 TB raw total	24/48/72/96 HDD up to 4 TB each 96 TB raw total	24/48/72/96 HDD up to 4 TB each 96 TB raw total
Host interface	1x miniSAS (4x 6Gb) connection per expansion I/O module	2x 6-Gb SAS	1x miniSAS (4x 6 Gb) connection per expansion I/O module
HDD interface	24x 6-Gb SAS / 6-Gb SATA HDDs 2x miniSAS for cascading connection (4x 6 Gb) per I/O module, support for up to 122 devices	6-Gb SAS 24x 3.5" SAS2 / SATA3 HDDs	24x 6-Gb SAS / 6-Gb SATA HDDs 2x miniSAS for cascading connection (4x6Gb) per I/O module, support for up to 122 devices
Form factor	4U rack-mountable	4U rack-mountable	4U rack-mountable
Dimensions	4U x 517 mm	4U x 660 mm	4U x 517 mm
Net weight	34 Kg	34 Kg	34 Kg
Power supply	2x 500 W High Efficiency Power Supply 100 - 240 V AC, 50 - 60 Hz	2x 900 W High Efficiency Power Supply 100 - 240 V AC, 50 - 60 Hz	2x 500 W High Efficiency Power Supply 100 - 240 V AC, 50 - 60 Hz
Operating conditions	5°C - 35°C Humidity: 20% - 80%, non-condensing	5°C - 35°C Humidity: 20% - 80%, non-condensing	5°C - 35°C Humidity: 20% - 80%, non-condensing
Certifications	FCC, CE, RoHS	FCC, CE, RoHS	FCC, CE, RoHS

SCATI VISION NVR KRAKEN HA

ARCHITECTURE

KRAKEN HA architecture and the possibilities of server failover are outlined below.

NETWORK STORAGE TECHNOLOGY

The network storage technology incorporated in KRAKEN HA enables access to the storage from different servers. This **distributed architecture** enables improved resource management, avoiding the under-utilization of some units and over-utilization of others, and gives the system more flexibility.

Each technology (SAS, iSCSI, FC, FC2) has two types of chassis:

- **Main chassis:** Connected to the VSK servers and containing the RAID controller. Several chassis can be connected to the same server, as well as various servers to the same chassis.
- **Secondary chassis:** Provide greater storage capacity for the system at the lowest possible cost through cascaded connections to a main chassis.

KRAKEN HA adapts to the storage needs of the installation thanks to this **modular** and scalable **architecture**, making it possible to connect more units as required.

SYSTEM MONITORING

KRAKEN HA devices can be **monitored** through standard SNMP traps, so that system administrators are aware of the status of each hardware component. Moreover, KRAKEN HA servers and chassis include a **standard IPMI**, facilitating multiple platform management.

SYSTEM DESIGN

The SCATI technical team designs the most suitable topology for each case, including network path redundancy and switch redundancy. The iSCSI and FC **10 Gb switches** offer high bandwidth and are specific to these types of platforms.

The installation must also have an appropriate **network infrastructure** to transmit video to the KRAKEN HA recorders. SCATI advises on its sizing and the choice of network elements to ensure the optimum system performance.

SERVER FAILOVER

This can be implemented in 2 topologies:

- **2 servers:** one server acts as backup for the other, with load balancing existing between them thanks to the active-active failover configuration.
- **N + 1 servers:** available with Fibre Channel and iSCSI technology, this design takes full advantage of the resources because a single server is used to implement failover for multiple servers.

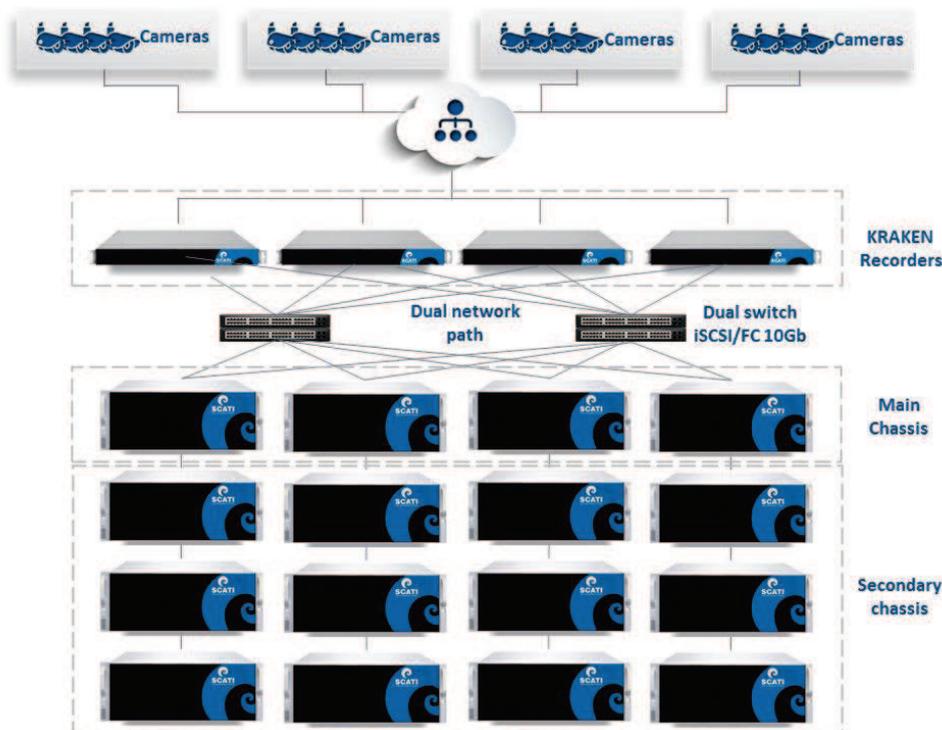
The server failover solution offered by KRAKEN HA provides **High Availability** for your installation, so the system remains fully operational if one of the servers crashes. It also maximises the capabilities of the servers thanks to its design with **load balancing**.

COST REDUCTION

The possibility of managing up to 4 chassis with a single RAID controller and managing as many as 512 cameras on a single server constitutes a **highly efficient architecture**, able to minimise hardware investment, power consumption and the space used.

Storage consolidation, accessible from any server, reduces the configuration and administration time of devices and enables efficient shared use of resources. All of this results in **simplified system maintenance**.

The advanced operation of KRAKEN HA is able to meet the most demanding needs of the market, while also **reducing the cost per camera** and the administration complexity of the installation.



SCATI VISION NVR KRAKEN HA

ORDERING INFORMATION

The references for the available SCATI VISION KRAKEN HA models are specified below.

SERVERS

VSK-LXU-SM0-SAS

Video recorder-player and editor for up to 512 IP cameras via SCATI VISION LIC-KRAKEN-1CH licenses. KRAKEN HA SAS box.

VSK-LXU-SM0-iSCSI

Video recorder-player and editor for up to 512 IP cameras via SCATI VISION LIC-KRAKEN-1CH licenses. KRAKEN HA iSCSI box.

VSK-LXU-SM0-FC

Video recorder-player and editor for up to 512 IP cameras via SCATI VISION LIC-KRAKEN-1CH licenses. KRAKEN HA FC box.

VSK-LXU-SM0-FC2

Video recorder-player and editor for up to 512 IP cameras via SCATI VISION LIC-KRAKEN-1CH licenses. KRAKEN HA FC2 box, dual controller.

EXTERNAL STORAGE CHASSIS

ST-SAS

Main chassis for SAS topology.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ST-iSCSI

Main chassis for iSCSI topology.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ST-FC

Main chassis for Fibre Channel topology.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ST-FC2

Main chassis for Fibre Channel topology with dual controller.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ST-SSAS

Secondary chassis for SAS topology.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ST-iSAS

Secondary chassis for iSCSI topology.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ST-FSAS

Secondary chassis for Fibre Channel topology.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ST-F2SAS

Secondary chassis for redundant Fibre Channel topology.
Storage of up to 24 4-TB SAS HDDs with RAID 6.

ADDITIONAL CHANNELS

IP additional channels require software activation through LIC-KRAKEN-1CH licenses.

LIC-KRAKEN-1CH

Single IP recording license for SCATI VISION KRAKEN recorder.

SERVER FAILOVER

One Failover license is applied per server. There are two options, depending on the total number of servers.

LIC-SCATI-FO1

Server Failover license for configuring 2 servers (up to 256 cameras per server). Applicable to all technologies. 1 license per server required.

LIC-SCATI-FO2

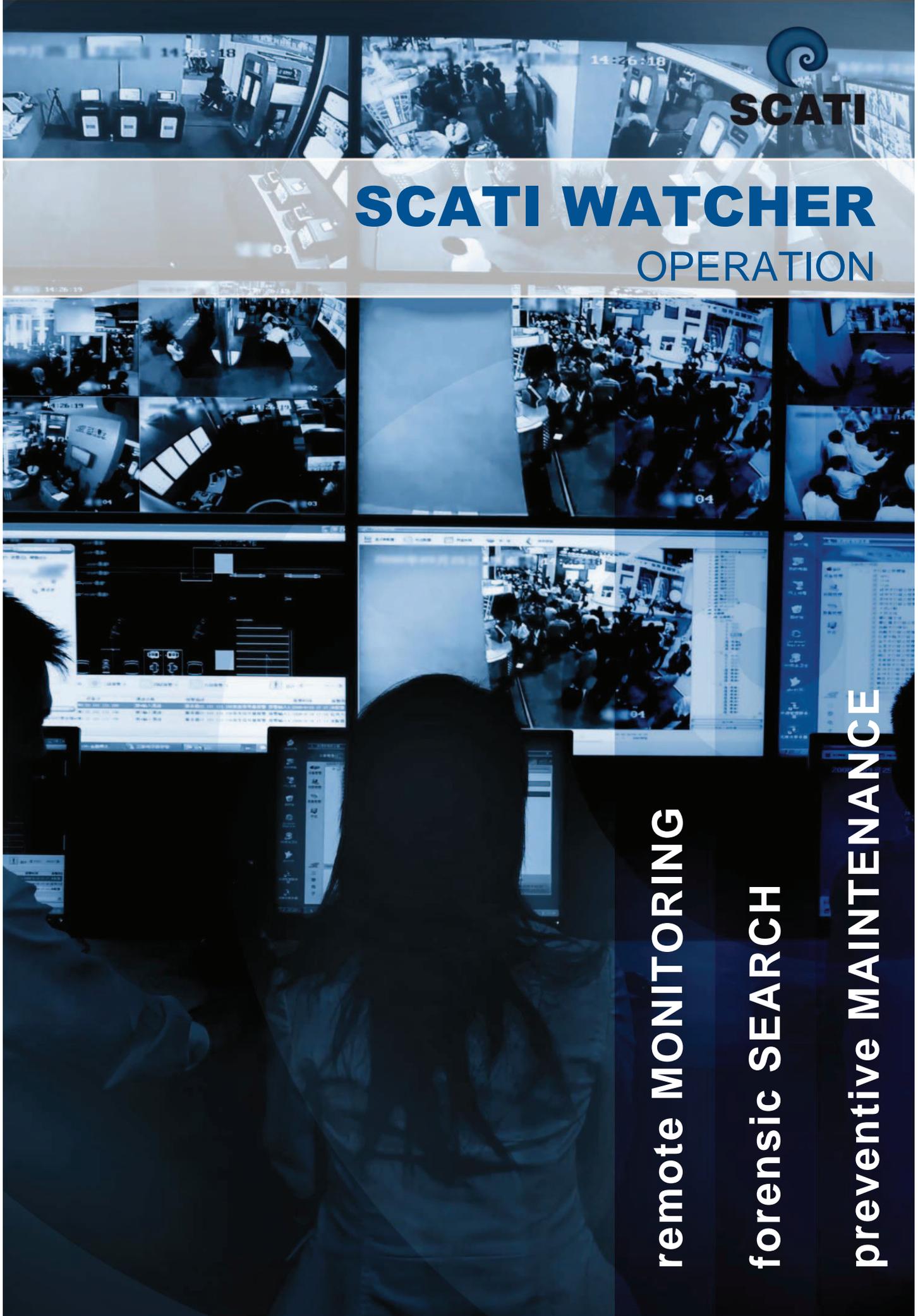
Failover license for configuring N+1 servers, where N>1 (up to 384 cameras per server) and up to 4 operative servers per back-up server. Only applicable to iSCSI & FC technologies. 1 license per server required.



SCATI

SCATI WATCHER

OPERATION



remote **MONITORING**

forensic **SEARCH**

preventive **MAINTENANCE**

OPERATION SCATI WATCHER

SCATI WATCHER is a powerful application for **easy remote management** of the entire pool of video recorders. Its wide range of functions are easily accessible from a **user-friendly interface** and cover all the needs of a professional security operator.

SCATI WATCHER is the ideal tool for **forensic searches** thanks to its advanced filters by video sensors, third-party alarms, schedules, association with maps, etc. It is also equipped with functions for **preventive maintenance** of video recorders.

Operators can use **SCATI WATCHER** for **real time monitoring** of camera matrices, with automatic pop-up windows that display videos associated with alarms. Thanks to telemetry control, digital zoom and other features, operator can **quickly respond to incidents**.



FUNCTIONAL FEATURES

REMOTE RECORDER MANAGEMENT

Thanks to its unique combination of efficiency, adaptability and easy operation, SCATI WATCHER is the perfect tool for day-to-day management of a large pool of video recorders. It can be used for remote configuration of recorders, viewing the status of sensors and relays, real time monitoring of camera matrices, accessing recorded video and controlling the proper functioning of recorders, all of which allow you to get the maximum performance from your CCTV system. For multi-operator centres, management of recorder groups, maps, etc. can be shared by using a centralised database.

REAL TIME MONITORING

SCATI WATCHER can be used to monitor customisable camera matrices, which can be rapidly access by means of short-cut keys or context menus. When a video-processing or third-party alarm is received, a window is displayed with the associated video for quick alarm verification. To streamline incident responses even further, there is a rapid access option to recently recorded video, which includes playing speed adjustment and frame-by-frame rewinding. Fast identification of suspicious individuals by digital zoom is available on all pop-up windows.

EASY TO USE

The SCATI WATCHER functions are included intuitively in the interface so the user can access them quickly and easily. For example, proper recorder operation is indicated by the colour of the status icon next to the recorder name. Users can create groups of cameras, regardless of the recorder they belong to or groups of recorders to streamline device management. SCATI WATCHER is also capable of loading interactive maps where the user can indicate camera positions, as well as grouping maps into *installations*. SCATI WATCHER also makes commissioning easier since it automatically detects all the recorders in the network and synchronises their real-time clocks, if desired.

RECORDER MAINTENANCE

SCATI WATCHER can be used to monitor equipment status by the automatic reception of alarms registered in SCATI VISION recorders: low disk-space, no signal from camera, etc. In addition, SCATI WATCHER includes flexible user management with configurable permissions and a log of actions carried out on the equipment.

FORENSIC SECURITY

SCATI WATCHER can be used to perform advanced searches of video associated with image-processing or third party events, thus simplifying investigations. Captured videos can be edited, exported and digitally signed. It includes tools for easy preparation of reports, exporting data to CSV and taking snapshots.

SCATI WATCHER

OPERATION

AVAILABLE MODELS



SW020-W7P-R01



SW010-W7P-RM1

SYSTEM

Box	Rack	Rack Pro
Operating System	Microsoft Windows 7 Professional	Microsoft Windows 7 Professional
Processor	Intel® Pentium® G2030 Dual-core 3.0 GHz	Intel® Core™ i7-3820 Quad-core 3.8 GHz
Memory	4 GB	4 GB
Network interface	2 RJ-45 10/100/1000Base-T	2 RJ-45 10/100/1000Base-T
Video system	ATI Radeon™ HD 5450 Graphics card	ATI Radeon™ HD 5450 Graphics card
USB	4 USB 2.0 ports 2 USB 3.0 ports	6 USB 2.0 ports 4 USB 3.0 ports
Video Outputs	1 VGA + 1 DVI-I + 1 HDMI	1 VGA + 1 DVI-I + 1 HDMI

MECHANICAL

Form factor	4U rack	4U rack
Dimensions	177.8 H x 482.6 W x 505 D mm	177.8 H x 482.6 W x 505 D mm
Net Weight	15.2 Kg	17.2 Kg

ELECTRICAL

Power Supply	Internal power supply	Internal power supply
Power Input	90 - 265 V AC, 47 - 63 Hz	115 - 230 V AC, 50 - 60 Hz
Power consumption	500 W max.	750 W max.

CERTIFICATIONS

Certifications	FCC, CE, RoHS	FCC, CE, RoHS
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MINIMUM REQUIREMENTS

Hardware: 1 GB RAM, SVGA Graphics card, minimum resolution 1024 x 768. These requirements are valid for dedicated hardware.

Software: Microsoft Windows 7 Professional (32-bit or 64-bit) with Service Pack 1 or later.

ORDERING INFORMATION

The references for SCATI WATCHER client remote management system are specified below.

LIC-SUWA-DEMO

Software License SCATI WATCHER Client Remote Management System. Management of up to 4 SCATI VISION servers/recorders.

LIC-SUWA-100VS

Software License SCATI WATCHER Client Remote Management System. Management of up to 100 SCATI VISION servers/recorders.

LIC-SUWA-250VS

Software License SCATI WATCHER Client Remote Management System. Management of up to 250 SCATI VISION servers/recorders.

LIC-SUWA-500VS

Software License SCATI WATCHER Client Remote Management System. Management of up to 500 SCATI VISION servers/recorders.

LIC-SUWA-1000VS

Software License SCATI WATCHER Client Remote Management System. Management of up to 1000 SCATI VISION servers/recorders.

LIC-SUWA-2500VS

Software License SCATI WATCHER Client Remote Management System. Management of up to 2500 SCATI VISION servers/recorders.

LIC-SUWA-5000VS

Software License SCATI WATCHER Client Remote Management System. Management of up to 5000 SCATI VISION servers/recorders.

SW020-W7P-C01

SCATI WATCHER Workstation. Management of up to 500 SCATI VISION servers/recorders. Compact box. Hardware optimized for WAN.

SW020-W7P-R01

SCATI WATCHER Workstation. Management of up to 500 SCATI VISION servers/recorders. Rack box. Hardware optimized for WAN.

SW010-W7P-RM1

SCATI WATCHER Workstation. Management of up to 500 SCATI VISION servers/recorders. Rack Pro box. Redundant hardware optimized for LAN.

SCATI WATCHER

OPERATION

AVAILABLE MODELS



SW020-W7P-C01

SYSTEM

Box	Compact
Operating System	Microsoft Windows 7 Professional
Processor	Intel® Pentium® G3220 Haswell Dual-core 3.0 GHz
Memory	2 GB
Network interface	1 RJ-45 10/100/1000Base-T
Video system	ATI Radeon™ HD 5450 Graphics card
USB	4 USB 2.0 ports 2 USB 3.0 ports
Video Outputs	1 VGA + 1 DVI-D + 1 HDMI

MECHANICAL

Form factor	Compact
Dimensions	94 H x 330 W x 320 D mm
Net Weight	6.2 Kg

ELECTRICAL

Power Supply	Internal power supply
Power Input	100 - 240 V AC, 50 - 60 Hz
Power consumption	720 W max.

CERTIFICATIONS

Certifications	FCC, CE, RoHS
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SCATI WALL

VIDEO WALL MONITORING



SCALABILITY

professional VIDEO WALL

integration with ALARMS

VIDEO WALL MONITORING SCATI WALL

SCATI SCATI WALL is a professional video-wall application specifically designed for large facilities. It has a monitor-stacking capacity that allows video walls of up to 128 cameras, making it a truly **scalable** solution.

Its **flexible configuration** and wide range of capabilities, accessible from an intuitive user-friendly interface, can be used to create an **efficient working environment**, adapted to your needs.

SCATI WALL integration with alarms allows automatic display of videos associated with alarms, whether from SCATI or third-party systems. This way, operators can focus on critical events quickly, thereby **improving their response times**.



FUNCTIONAL FEATURES

FLEXIBLE SET-UP

SCATI WALL features a wide range of set-up options to create a highly efficient working environment.

- Flexible scenario definitions, where you can choose from 14 different kinds of layouts.
- Generation of camera sequences with configurable time intervals and optional cycle repetition.
- Automated pre-positioning of PTZ cameras.

This flexibility is enhanced by a fast set-up thanks to camera and recorder group importing from SCATI WATCHER.

EASY AND USER-FRIENDLY OPERATION

The design of the SCATI WALL interface is user-friendly, designed to make all its features as easy to use as possible. It includes functionalities such as PTZ camera control by mouse or joystick, drag-and-drop quadrant exchange, double click for full window, digital zoom, etc. Streamlining options include fast keys association with scenarios, definition of default scenarios and filter-based searches. SCATI WALL also implements on-screen texts, such as "PTZ" to indicate a moveable camera or "REC" to show that the camera stream is being recorded.

SCALABILITY

SCATI WALL offers the option of viewing digital matrices from 16 to 128 cameras on video walls with up to 4 monitors. Licences can be added as required so SCATI WALL can adapt to all your needs.

FAST INCIDENT RESPONSE

SCATI WALL can receive video or third party alarms via SCATI HUB. Associated video is automatically displayed on the viewing quadrants defined by the user with a red indicator, and an acoustic alert can be configured. The element that triggered the alarm is tracked. Intelligent alarm management is performed by selecting which SCATI HUB alarm groups are to be received, filtering alarms by time window or temporarily ignoring alarms. All these capacities make SCATI WALL the ideal application for reducing incident-response time to a minimum.

IMAGE QUALITY

The quality of the received video can be adapted from SCATI WALL, thereby reducing the load in the network as required. Video access is also guaranteed by integration with SCATI LINKER, even during emergencies when multiple operators want to simultaneously access the same video streams.

SECURITY AND RELIABILITY

Continuous operation of SCATI WALL is ensured thanks to periodical status monitoring. Video transmission is completely secured by protection of communications with the servers.

SCATI WALL

VIDEO WALL MONITORING

AVAILABLE MODELS



SWALLXX-W7P-RM1

SYSTEM

Operating System	Microsoft Windows 7 Professional
Processor	Intel® Core™ i7-3820 Quad-core 3.80 GHz
Memory	4 GB
Network interface	2 RJ-45 10/100/1000Base-T ports
Video system	ATI Radeon™ HD 5450 Graphics card
USB	6 USB 2.0 ports 4 USB 3.0 ports
Video Outputs	2 VGA + 2 DVI-I + 2 HDMI

MECHANICAL

Form factor	4U rack
Dimensions	177.8 H x 482.6 W x 505 D mm
Net Weight	17.2 Kg

ELECTRICAL

Power Supply	Internal power supply
Power Input	115 - 230 V AC, 50 - 60 Hz
Power consumption	750 W max.

CERTIFICATIONS

Certifications	FCC, CE, RoHS
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ORDERING INFORMATION

The references for SCATI WALL Video Wall workstations are specified below.

SWALL16-W7P-RM1

Real time display workstation on digital video matrix licensed for 16 simultaneous cameras.

SWALL36-W7P-RM1

Real time display workstation on digital video matrix licensed for 36 simultaneous cameras.

SWALL64-W7P-RM1

Real time display workstation on digital video matrix licensed for 64 simultaneous cameras.

SWALL128-W7P-RM1

Real time display workstation on digital video matrix licensed for 128 simultaneous cameras.

LICSWALL-4TV-1CH

Soft License for Scati Wall over more than 1 monitor. 1 additional channel. Available only as an extension on SCATI WALL workstations.



SCATI HUB

ALARM MANAGEMENT

ALARM

CENTRALISED management

third-party **INTEGRATION**

AUTOMATIC actions

ALARM MANAGEMENT SCATI HUB

SCATI HUB performs **centralised management of all the alarms** in a distributed CCTV system, whether from video or third party systems, providing easy and efficient **integration** of all the security systems. This unified management offers greater event-association options, enabling a **proactive approach** to security.

SCATI HUB makes it easy to manage alarms by allowing users to define **alarm groups**. The applications that receive alarms can subscribe to the different channels so they only receive alarms relevant to them.

The possibility to program **automatic alarm-response actions**, the wide variety of customized parameters and extensive integration capacities enables **incident-response time** to be reduced to a minimum.



FUNCTIONAL FEATURES

INTEGRATION WITH THIRD-PARTY SYSTEMS

The SCATI HUB application design allows for easy integration with any number of security systems: access controls, anti-intrusion systems, physical sensors, third-party CCTV, etc. SCATI HUB receives all the alarms from these external systems, as well as from SCATI VISION recorders, and triggers actions in the video platform. It also operates in the opposite direction: alarms triggered by SCATI VISION recorders can be transmitted to third-party systems, allowing for centralised management of all the alarms in the security system.

INTELLIGENT MANAGEMENT

SCATI HUB's concentration of all plant alarms allows for more efficient alarm management. SCATI HUB can be used to define response actions for individual alarms or by type of alarm. For example SCATI WATCHER/WALL can launch video of the most useful cameras to confirm each alarm, move a PTZ dome to a predefined position, activate recording in a camera, record at higher quality, activate an external sensor, etc. The multiple possibilities for customising these options make it possible to take full advantage of the system's capabilities.

ALARM DISTRIBUTION

SCATI HUB organises the types of alarms it receives in configurable groups to facilitate their management. SCATI WATCHER and SCATI WALL operators can subscribe to the alarm groups that interest them most, so they receive only these alarms and their associated actions via multicast UDP protocol. Schedules and customised alarm handling can also be established to discriminate alarms that do not have to be attended to. SCATI HUB also uses the TCP protocol to communicate alarms to one or more IP addresses corresponding to integrated third-party systems, and can also send alarms via e-mail to other addresses.

FAST INCIDENT RESPONSE

SCATI HUB minimises incident-response times by enhancing operator concentration thanks to a reduced alarm load.

- Automation of alarm-associated actions.
- Selective alarm filtering for operators by subscribing to configurable alarm groups.
- Alarm filtering by schedule or other criteria.
- Priority settings for video-launching in client applications according to alarm types.
- Synergies generated by the integration of a variety of security systems.

SECURITY AND RELIABILITY

SCATI HUB ensures continuous operation by checking the status every 30 seconds and re-starts automatically if operation is not detected.

SCATI HUB

ALARM MANAGEMENT

AVAILABLE MODELS



SHUB000-W7P-SM0

SYSTEM

Operating system	Microsoft Windows Embedded 7
Processor	Intel® Xeon® 4C E3-1200 v3 3.3 GHz
Memory	8 GB
Network interface	2 Gigabit Ethernet RJ-45 ports (10/100/1000Base-T)
USB	1 USB 3.0 ports 2 USB 2.0 ports
Video outputs	1 VGA

MECHANICAL

Form factor	1U rack
Dimensions	43 H x 437 W x 503 D mm
Net weight	15.2 Kg

ELECTRICAL

Power supply	(1+1) redundant high-efficiency power supply
Power input	100 - 240 V AC, 50 - 60 Hz
Power consumption	400 W
Power consumption	400 W

ENVIRONMENTAL

Operating temperature	5°C - 35°C (41°F - 95°F)
Operating humidity	8% - 90% (non-condensing)
Certifications	FCC, CE, RoHS

MINIMUM REQUIREMENTS

To guarantee proper functioning of the application, the following minimum requirements are needed. These requirements are valid for dedicated hardware.

Hardware: 1 GB RAM DDR 667 or more.
GigaLan card redundancy. Double power source.

Software: Microsoft Windows 7 Professional (32-bit or 64-bit) with Service Pack 1 or later.

ORDERING INFORMATION

The references for SCATI HUB alarm management units are specified below.

LIC-SHUB

Software License for the alarm concentrator SCATI HUB.

SHUB000-W7P-SM0

SCATI HUB alarm concentrator server in 1U rack box.



SCATI ROUND

REMOTE MAINTENANCE

task **AUTOMATION**

centralised **MAINTENANCE**

massive recorder **UPGRADING**

REMOTE MAINTENANCE SCATI ROUND

Centralised control of equipment status is essential in large pools of video recorders. **SCATI ROUND** provides **automated remote maintenance** of all the equipment, thereby facilitating preventive fault detection.

SCATI ROUND is a key component for a **scalable system** because of its capacity to program bulk operations on recorders, such as set-ups, **updates**, etc., as well as automating maintenance tasks.

To take full advantage of all its capabilities, the **SCATI ROUND WEB** interface can perform advanced **searches**, generate **reports** and obtain all types of **statistics** by using the wide variety of criteria offered by **SCATI ROUND**.



FUNCTIONAL FEATURES

SCALABILITY

SCATI ROUND provides unprecedented scalability thanks to its capacity to perform various tasks simultaneously on groups of recorders. This is essential in large installations with a high number of recorders or distributed systems. Tasks can be grouped in rounds, which can be run in immediate or deferred mode, or periodically on a recorder or group of recorders. The groups of recorders are imported from SCATI WATCHER, making the initial set-up of SCATI ROUND quick and easy.

CENTRALISED CONTROL

SCATI ROUND can obtain all type of recorder data: number of days stored, time & date, settings, sensor statistics, alarms, camera snapshots, bulk video & snapshot requests, files and much more. It can also be used to send settings or update packages *en masse* by groups of recorders. As a result, the size of your recorder pool is not a problem; it will always be under control from a central location.

PREVENTIVE MAINTENANCE

Check the status of each SCATI VISION recorder periodically by scheduling tasks. Choose the most useful ones from the wide range of tasks offered by SCATI ROUND: check connection data, recorders that are not configured, HW errors, time discrepancies, cameras without a signal, camera sabotage, etc. At the end of the procedure, the SCATI ROUND WEB interface will display a report with a summary of the status of the recorder pool. This opens the way for preventive diagnosis of any errors in the CCTV installation and prevents recording interruptions that might not be detected under other circumstances.

MASS OPERATIONS

SCATI ROUND makes it possible to update the software of your entire SCATI VISION pool remotely and easily, an essential feature for large installations. Recorder management is also streamlined by copying settings from one SCATI VISION to others (if the recorders are similar) and replicating system permissions between recorders. Bulk time & date synchronisation prevents discrepancies among recorders and the Control Centre, while many other bulk tasks, such as video / snapshot requests, etc. provide system scalability.

REPORTS AND STATISTICS

Perform advanced searches on SCATI ROUND WEB by using the wide range of filters per round, recorder group, calendar, errors, time discrepancies, alarms and days stored, among other criteria. Obtain sensor and alarm statistics, or other parameters for a detailed study of plant status and generate reports easily by exporting rounds to PDF or CSV.

SCATI ROUND

REMOTE MAINTENANCE

MINIMUM REQUIREMENTS

Hardware: 1 GB RAM, SVGA Graphics card, minimum resolution 1024 x 768. These requirements are valid for dedicated hardware.

Software: Microsoft Windows 7 Professional (32-bit or 64-bit) with Service Pack 1 or later.

ORDERING INFORMATION

The references for SCATI ROUND remote maintenance system are specified below.

LICSURO

Software License for remote maintenance system SCATI ROUND, up to 500 SCATI VISION servers/recorders.



SCATI LINKER

VIDEO DISTRIBUTION

BANDWIDTH management

AUTOMATIC DOWNLOADS

planned video BAK-UPS

VIDEO DISTRIBUTION SCATI LINKER

Don't let your network collapse in emergency situations. When all the operators attempt to access the same video, **SCATI LINKER** guarantees video service by prioritising and grouping requests to **optimise available bandwidth**.

SCATI LINKER also implements **automatic video downloads** over a wireless network to a centralised recording platform. This is ideal for scenarios with distributed recorders and limited connectivity in sectors such as **Transport, Public Safety or Banking**.

SCATI LINKER prepares your video surveillance system to manage **modern network complexity**, where it's commonplace to have all kinds of devices attempting to access video over a combination of fixed and mobile networks.



FUNCTIONAL FEATURES

BANDWIDTH MANAGEMENT

SCATI LINKER's Real Time mode guarantees access to the video in distributed recorders even during a hypothetical avalanche of requests in response to an incident. SCATI LINKER RT minimises the bandwidth necessary to transmit video by grouping the requests from SCATI client applications so that the recorder receives real-time video requests only once. It then transmits to multiple client applications simultaneously. This is a critical feature in certain applications such as mobile scenarios, where on-board recorder connectivity is limited.

RECORDED VIDEO DISTRIBUTION

When a recorder has to respond to both real-time and recorded video requests simultaneously, transmission must be properly prioritised according to the limitations of the network. SCATI LINKER RT centralises and controls recorded video requests to guarantee operation without compromising real-time video transmission.

AUTOMATIC DOWNLOADS

The SCATI LINKER AD automatic download mode is especially designed to perform robust and safe automatic downloads over a WiFi network to centralised storage recorders. It detects network coverage and automatically begins downloading, while offering authorised users configurable stop/start options. SCATI LINKER downloads are incremental - video downloads are restarted where they left off, even to a different central recorder unit. Once the download is completed, SCATI LINKER switches off the recorder automatically.

SCHEDULED BACK-UPS

SCATI LINKER AD also carries out scheduled back-ups of distributed recorders to a centralised storage system. SCATI LINKER AD schedules these back-ups to carry them out when there is the least load in the network.

RETRIEVAL OF DOWNLOADED VIDEO

Distributed recorders can download video to different centralised recorders, which may be in separate locations. SCATI LINKER AD organizes the complete centralised storage so that video downloaded from the distributed recorders can be retrieved using the distributed recorder ID, irrespective of the centralised recorder where the video is stored.

RELIABILITY AND SECURITY

SCATI LINKER relies on hardware redundancy to ensure continuous operation. SCATI LINKER AD also includes alarm transmission to the Control Centre in the event of incidents during video download, ensuring complete reliability.

SCATI LINKER

VIDEO DISTRIBUTION

AVAILABLE MODELS



SLNK000-LXU-SM0

SYSTEM

Operating System	Linux in a 16-GB SSD memory device
Processor	2x Intel® Xeon® E5-2620
Memory	64 GB
Network interface	2x RJ45 10GBase-T ports 2x RJ45 Gigabit Ethernet LAN ports
USB	4x USB 2.0 ports
Video Outputs	1 VGA

MECHANICAL

Form factor	1U rack
Dimensions	437 W x 43 H x 705 D mm
Net Weight	19.45 Kg

ELECTRICAL

Power Supply	(1 + 1) redundant AC-DC high-efficiency power supply
Power input	700 W: 100 - 140 V, 50 - 60 Hz 750 W: 180 - 240 V, 50 - 60 Hz
Power consumption	700 W / 750 W
Cooling system	6x 4 cm Counter-rotating PWM fans

ENVIRONMENTAL

Operating Temperature	5°C - 35°C (41°F - 95°F)
Storage Temperature	-40°C - 60°C (-40°F - 140°F)
Operating Humidity	8% - 90% (non condensing)
Certifications	FCC, CE, RoHS

ORDERING INFORMATION

Each Scati Linker unit must be licensed per camera and per client device.

SLNK000-LXU-SM0

1U Rack box server. Allows for real-time video distribution and automatic downloads. Includes LIC-LINK-CLI50.

LIC-LINK-RT-1CH

Real-time video transmission licence for one analogue or IP camera.

LIC-LINK-AD-1CH

Automatic Download licence for one analogue or IP camera.

LIC-LINK-CLI10

Licence for 10 units/client devices.

LIC-LINK-CLI25

Licence for 25 units/client devices.

LIC-LINK-CLI50

Licence for 50 units/client devices.

LIC-LINK-CLI100

Licence for 100 units/client devices.

LIC-LINK-CLI250

Licence for 250 units/client devices.

LIC-LINK-CLI500

Licence for 500 units/client devices.

EI The number of cameras corresponds to the total number managed by the Scati Linker unit, regardless of how many are used at once.

The number of client devices corresponds to the total number to be connected to the Scati Linker unit at once (regardless of the type or number of applications used: Scati Watcher, Scati Wall, Scati Car, Scati Rail, clients over SDK, etc.).



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