IP Video Solutions

Megapixel Network Cameras
Complete Megapixel Solutions

Uncompromising Quality and Stability for Megapixel

3 Year Warranty

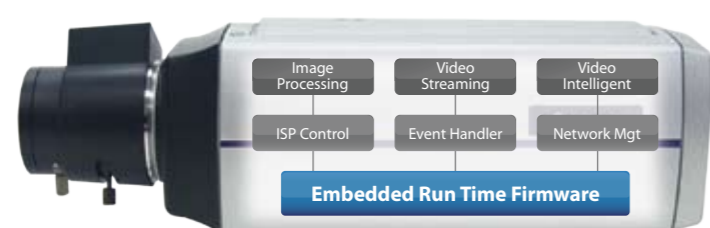## ■ Focused on Reliability

A network camera's performance and reliability rests on its runtime firmware. With 20 years proven capability in network embedded equipment design, Surveon cameras provide stable video streams with zero frame loss, minimized delay, and reliable 24/7/365 operation.

Image Processing | Video Streaming | Video Intelligent
ISP Control | Event Handler | Network Mgt
Embedded Run Time Firmware

■ Video Analytics

All Surveon network cameras support real-time VI with the Surveon VI Suite, featuring functions such as foreign and missing object detection, forbidden area, intrusion detection and camera tampering detection. These real-time video analytics help increase the situational awareness of monitoring personnel, and increase surveillance efficiency.

Original Scene | Missing Object Detected | Intrusion Detection | Forbidden Area

■ In-house Design & Manufacturing

Surveon is committed to meeting and exceeding the exacting quality demands of our security partners. Each Surveon product is designed and manufactured in-house, with proven firmware, circuit, tooling, integration, and validation abilities—as well as ISO9001/14001 certified production capabilities.

About Surveon Technology Inc.

Surveon Technology offers end-to-end network video surveillance solutions that showcase our expertise in professional camera design, high-availability video storage, embedded firmware and video management software. All Surveon products are designed in-house and manufactured on our ISO9001 and ISO14001 certified production site to ensure the highest quality for our partners. For more information about Surveon, please visit our website at www.surveon.com

■ Comprehensive Product Line

Surveon offers a full line of box, bullet, dome, PTZ and speed-dome cameras with resolutions ranging from D1 to megapixel, including advanced day/night, WDR, wide-temperature and weatherproof IP66 models. All cameras are designed and manufactured in-house with industrial-grade components, and backed with our 3-year warranty.

D/N | IP66 | IR LED | Vandal Resistant | Optical Zoom
Wide Temperature | Video Intelligent | MEGA Megapixel | PTZ | 16:9
Vari-focal | WDR | CCD | Low Light Sensor | PoE

■ Video Quality You Can Rely On

Optimizations in optical engineering—in both image processing and codec integration—provide Surveon network cameras with ideal image clarity and low light sensitivity. Advanced components such as day/night ICRs, IR LEDs, WDR and low-light image sensors, and ISP controls ensure the camera's suitability for various color and lighting combinations.

Conventional Camera | Surveon's Network Camera | Conventional Camera | Surveon's Network Camera

■ CCTV Engineering Design

Surveon designs professional cameras based on in-depth experience from CCTV engineering, providing our security partners an upgrade path to IP surveillance without compromises from the quality and reliability of CCTV solutions. The highly integrated CCTV-type designs also ensure stable operation in diverse environments with both indoor and outdoor, vandal resistant, weatherproof and wide temperature range support.

IP66 Impact Resistant | IP66 Weatherproof

Surveon
Complete Megapixel Solutions

FC CE RoHS

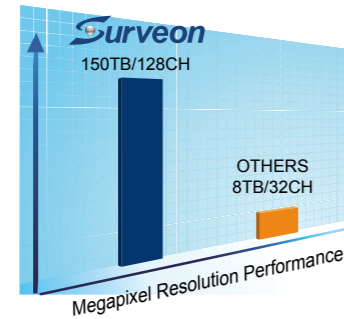**Surveon**
Complete Megapixel Solutions

Transitioning to End-to-End IP Video Surveillance

Surveon designs and manufactures products for your whole surveillance solution, from megapixel network cameras and video management software, to video storage. As part of our highly integrated, proven and reliable product lineup, our camera solutions help our security professionals reduce integration effort, compatibility risks and maximize profits.

■ Enterprise-Grade Centralized Management Software (VMS)

The Surveon VMS suite is an enterprise-grade video management solution built on a distributed architecture, with modular recording, VI server, domain server, storage server, client and management agents. Our intuitive live monitoring, smart investigation modes are supplemented with real-time VI, HTML support, advanced eMAPs and a centralized management framework.

■ Megapixel Recording

Megapixel cameras have provided dramatic improvements in video resolution, however their increased I/O demands often lead to storage problems. Leveraging our experience in high-performance storage, Surveon VMS is optimized to deal with high data loads, minimizing the risk of frame loss and hard drive failures.

■ Multiple Display Support

Multiple-display support is commonly required for medium to large scale applications. Surveon VMS supports up to 8 monitors which can be easily configured to provide dedicated displays for multiple live view video feeds, eMAPs, investigation, and even integrated 3rd party solutions.

■ Simple, High-Availability Video Appliance

Our storage-integrated video appliances are ideal platforms for megapixel recording. With scalable hardware and enterprise RAID architectures, Surveon NVRs provide straightforward expansion from 4 channels to over 300 channels on unified hardware, while reducing installation and configuration overheads for our SI partners.
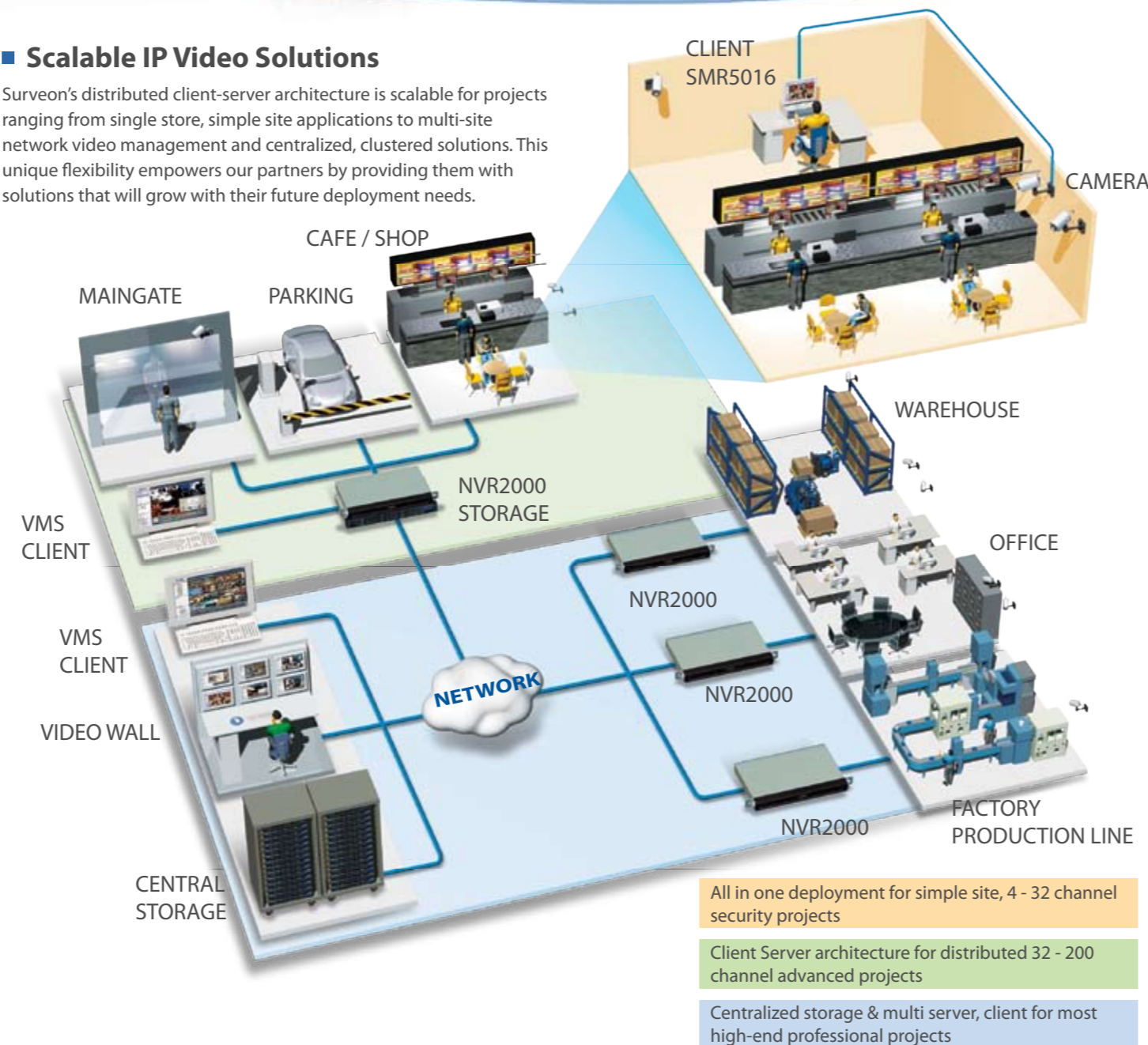
■ Intelligent Active Surveillance Management

Surveon VMS provides intuitive tools that increase monitoring and investigative effectiveness and efficiency. Real-time detection events can be configured with multiple intelligent notifications for prompt response, and Surveon VMS also supports time based, multi-event and video-intelligent searches that can be labeled and categorized to provide faster investigation.

■ Scalable IP Video Solutions

Surveon's distributed client-server architecture is scalable for projects ranging from single store, simple site applications to multi-site network video management and centralized, clustered solutions. This unique flexibility empowers our partners by providing them with solutions that will grow with their future deployment needs.

All in one deployment for simple site, 4 - 32 channel security projects

Client Server architecture for distributed 32 - 200 channel advanced projects

Centralized storage & multi server, client for most high-end professional projects

■ Selection Guide

Model Name	CAM2100 / CAM2101	CAM2200 / CAM2201	CAM2400	CAM2300	CAM2301	CAM2320	CAM2321	CAM3260	CAM3365	CAM4110	CAM4160
	Box Network Camera							**Bullet Network Camera**		**Fixed Dome Network Camera**	
Description	D1 H2.64 IP Camera	1.3M H2.64 IP Camera	1.25M H.264 CCD D/N IP Camera	2M H.264 IP Camera	2M H.264 D/N IP Camera	3M H.264 IP Camera	3M H.264 D/N IP Camera	1.3M D/N Bullet IP Camera	3M D/N Bullet IP Camera	D1 IP Fixed Dome	D1 D/N Outdoor IP Fixed Dome
Image Sensor	1/3.2" Progressive Color	1/3" Progressive Scan	1/3" SONY Exview CCD	1/2.7" Progressive Scan	1/2.8" SONY Low Light	1/2.8" SONY Low Light	1/3" Progressive Scan	1/2.8" SONY Low Light	1/3" Progressive Color	1/3.2" Progressive Color	1/3.2" Progressive Color
Lens	Changeable (CS/C mount)	Changeable (CS/C mount)	Changeable (CS/C mount)	Changeable (CS/C mount)	Changeable (CS/C mount)	Changeable (CS/C mount)	2.8-11 mm varifocal, F1.4	3-10 mm motor, F1.3	4.2 mm, F1.8	2.8-11 mm varifocal, F1.4
Day/Night ICR	Yes (CAM2101)	Yes (CAM2201)	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Dual Band Filter	Yes
IR LED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes (30M)	Yes (20M)	Yes (15M)	Yes (30M)
Min Illumination	0.2 Lux @ F1.8	0.5 Lux @ F1.0	0.5 Lux @ F1.0	0.5 Lux @ F1.0	0.1 Lux @ F1.2	0.1 Lux @ F1.2	0.1 Lux @ F1.2	0 Lux (IR LEDs on)	0 Lux (IR LEDs on)	0 Lux (IR LEDs on)	0 Lux (IR LEDs on)
Camera Angle Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Pan 0°~340° Tilt 30°~90°	Pan 0°~340° Tilt 30°~90°
Video Compression	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG
Video FPS	30 fps (720 x 480) 30 fps (640 x 480)	30 fps (720 x 480) 30 fps (640 x 480)	15 fps (1280 x 960) 30 fps (1280 x 720) 30 fps (640 x 480)	25 fps (1920 x 1080) 30 fps (1280 x 1024) 30 fps (1280 x 720)	25 fps (1920 x 1080) 30 fps (1280 x 1024) 30 fps (1280 x 720)	15 fps (2048 x 1536) 25 fps (1920 x 1080) 30 fps (1280 x 1024)	15 fps (2048 x 1536) 25 fps (1920 x 1080) 30 fps (1280 x 1024)	15 fps (1280 x 1024) 15 fps (1280 x 720) 30 fps (640 x 480)	15 fps (2048 x 1536) 25 fps (1920 x 1080) 30 fps (1280 x 1024)	30 fps (720 x 480) 30 fps (640 x 480)	30 fps (720 x 480) 30 fps (640 x 480)
Video Control	AGC, AWB, AES, BLC, Image Adjustment	AGC, AWB, AES, BLC, Image Adjustment	AGC, AWB, AES, BLC, Image Adjustment	AGC, AWB, BLC, Image Adjustment	AGC, AWB, AES, BLC, Image Adjustment	AGC, AWB, BLC, WDR, Image Adjustment	AGC, AWB, BLC, WDR, Image Adjustment	AGC, AWB, AES, BLC, Image Adjustment	AGC, AWB, BLC, WDR, Image Adjustment	AGC, AWB, AES, BLC, Image Adjustment	AGC, AWB, AES, BLC, Image Adjustment
Audio	2 Way Audio, Built-in MIC	2 Way Audio, Built-in MIC	2 Way Audio, Built-in MIC	2 Way Audio	2 Way Audio	2 Way Audio	2 Way Audio	2 Way Audio	2 Way Audio	2 Way Audio, Built-in MIC	2 Way Audio
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Local Storage	microSD/SDHC x 2	microSD/SDHC x 2	microSD/SDHC x 2	microSD/SDHC x 1	microSD/SDHC x 1	microSD/SDHC x 1	microSD/SDHC x 1	microSD/SDHC x 1	microSD/SDHC x 1	microSD/SDHC x 1	microSD/SDHC x 1
Power	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3
Certification	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE, IP66	LVD, FCC, CE, IP66	LVD, FCC, CE	LVD, FCC, CE, IP66
Intelligent Video	Surveon VI Server Support: Motion Detection, Tampering Detection (blocked, redirected, defocused, or spray-painted), Missing Object, Foreign Object, Intrusion Detection, Forbidden Area										

Model Name	CAM4210	CAM4220	CAM4260	CAM4310	CAM4360	CAM4365	CAM5130	CAM5210	CAM6160	CAM6120	CAM6180
	Fixed Dome Network Camera						**PTZ Dome Network Camera**			**Speed Dome Network Camera**	
Description	1.3M IP Fixed Dome	1.3M D/N IP Fixed Dome	1.3M D/N Outdoor IP Fixed Dome	2M IP Fixed Dome	2M D/N Outdoor IP Fixed Dome	3M D/N Outdoor IP Fixed Dome	10x Zoom CCD D/N IP PTZ Dome	1.3M IP PT Dome	25x Zoom CCD D/N Indoor IP Speed Dome	25x Zoom CCD D/N Outdoor IP Speed Dome	35x Zoom CCD D/N Outdoor IP Speed Dome
Image Sensor	1/3" Progressive Scan	1/3" Progressive Scan	1/3" Progressive Scan	1/2.7" Progressive Scan	1/2.7" Progressive Scan	1/2.8" SONY Low Light	1/4" Mintron CCD	1/3" Progressive Scan	1/4" SONY EXview CCD	1/4" SONY EXview CCD	1/4" SONY EXview CCD
Lens	4.2 mm, F1.8 Dual Band Filter	2.8-11 mm varifocal, F1.4	2.8-11 mm varifocal, F1.4	4.2 mm, F1.8	3-10 mm motor, F1.3	3-10 mm motor, F1.3	4.2-42 mm varifocal, F1.8(W) - F2.9(T), 10x Zoom	4.2mm, F1.8	3.43-85.7 mm varifocal, F1.6(W) - F3.7(T), 25x Zoom	3.43 - 85.7 mm varifocal, F1.6(W) - F3.7(T), 25x Zoom	3.43-120 mm varifocal, F1.6(W) - F4.5(T), 35x Zoom
Day/Night ICR	Yes (15M)	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR LED	0 Lux (IR LEDs on)	Yes (30M)	Yes (30M)	N/A	N/A	Yes (15M)	Yes (15M)	N/A	N/A	N/A	N/A
Min Illumination	Pan 0°~340°	0 Lux (IR LEDs on)	0 Lux (IR LEDs on)	0 Lux @ F1.8	1.6 Lux @ F1.8	0 Lux (IR LEDs on)	0 Lux (IR LEDs on)	0.07 Lux @ F1.8	0 Lux @ F1.0	0.1 Lux @ F1.6	0.1 Lux @ F1.6
Camera Angle Adjustment	Tilt 30°~90°	Pan 0°~340° Tilt 30°~90°	Pan 0°~340° Tilt 30°~90°	Pan 0°~340° Tilt 30°~90°	Pan 0°~340° Tilt 30°~90°	Pan 0°~340° Tilt 30°~90°	3 Lux @ F1.8 Pan: 360°, 1° - 200°/s Tilt: -5° ~ +90°, 1° - 120°/s	Pan: 360°, 1° - 200°/s Tilt: -5° ~ +90°, 1° - 120°/s	Pan: 360° endless, 1° – 255°/s Tilt: -6° ~ +96°, 1° - 255°/s	Pan: 360° endless, 1° – 255°/s Tilt: -6° ~ +96°, 1° – 255°/s	Pan: 360° endless, 1° – 255°/s Tilt: -6° ~ +96°, 1° – 255°/s
Video Compression	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG
Video FPS	15 fps (1280 x 720) 30 fps (640 x 480) AGC, AWB, AES, BLC,	15 fps (1280 x 1024) 15 fps (1280 x 720) 30 fps (640 x 480)	15 fps (1280 x 1024) 15 fps (1280 x 720) 30 fps (640 x 480)	25 fps (1920 x 1080) 30 fps (1280 x 1024) 30 fps (1280 x 720)	25 fps (1920 x 1080) 30 fps (1280 x 1024) 30 fps (1280 x 720)	15 fps (2048 x 1536) 30 fps (1280 x 1024) 30 fps (1280 x 720)	30 fps (704 x 480) 30 fps (640 x 480)	15 fps (1280 x 1024) 15 fps (1280 x 720) 30 fps (640 x 480)	30 fps (768 x 494) 25 fps (752 x 582)	30 fps (768 x 494) 25 fps (752 x 582)	30 fps (768 x 494) 25 fps (752 x 582)
Video Control	Image Adjustment 2 Way Audio, Built-in MIC	AGC, AWB, AES, BLC, Image Adjustment	AGC, AWB, AES, BLC, Image Adjustment	AGC, AWB, BLC, Image Adjustment	AGC, AWB, BLC, WDR, Image Adjustment	AGC, AWB, BLC, Image Adjustment	AGC, AWB, BLC, Image Adjustment	AGC, AWB, BLC, Image Adjustment	AGC, AWB, BLC, Image Adjustment	AGC, AWB, BLC, Image Adjustment	AGC, AWB, BLC, Image Adjustment
Audio	microSD/SDHC x 1	2 Way Audio, Built-in MIC	2 Way Audio	2 Way Audio	2 Way Audio, Built-in MIC	2 Way Audio	2 Way Audio	2 Way Audio, Built-in MIC	2 Way Audio, Built-in MIC	N/A	N/A
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	6/1	6/1
Local Storage	12VDC : PoE with Class 3	microSD/SDHC x 1	microSD/SDHC x 1	microSD/SDHC x 2	microSD/SDHC x 2	microSD/SDHC x 2	SD/SDHC x 1	SD/SDHC x 1	N/A	N/A
Power	LVD, FCC, CE	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	12VDC : PoE with Class 3	24VAC, 5A	24VAC, 5A	24VAC, 5A
Certification		LVD, FCC, CE	LVD, FCC, CE, IP66	LVD, FCC, CE	LVD, FCC, CE, IP66	LVD, FCC, CE, IP66	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE	LVD, FCC, CE, IP66
Intelligent Video	Surveon VI Server Support: Motion Detection, Tampering Detection (blocked, redirected, defocused, or spray-painted), Missing Object, Foreign Object, Intrusion Detection, Forbidden Area										