Surveon Camera Introduction

High Reliability with Superior Image Quality



Content

Advantage to Customer

Product Strength

Surveon Camera Highlight

3rd-party VMS Compatibility List





Advantage to Customer

- Save Maintenance Cost with Robust Performance
 - > Industrial-grade component
 - > IK10 & IP66 / 67



- High Dynamic Range (HDR)
- Low Light Sensitivity & Low Bit Rates



- Dynamic Streaming
- ROI Encoding



- Smart Auto Quality Change & Smart Auto WDR / HDR
- Smart De-noise / Smart Shutter







Surveon

Other Camera







Other Camera



Product Strength

High Reliability with Low RMA Rate

Industrial-grade components

Superior Image Quality

HDR & Low light sensibility

Optimized Bandwidth Control

Dynamic Streaming & RIO Encoding

Advanced Firmware Control

Smart WDR, Smart Shutter, Smart De-noise, Offline Recording etc.

Built-in Video Analytics

People Counting, Object Motion Direction & Object Loitering etc.

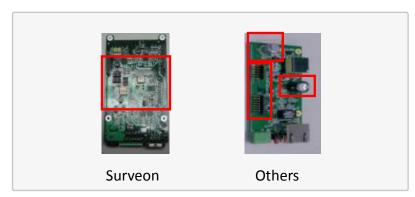


Product Strength — High Reliability with Low RMA Rate



Industrial-Grade Components

- All Industrial-Grade Components
- Own Manufacturing, Housing, 3-Year Warranty



Tantalum capacitors and ceramic capacitors in Surveon cameras

Advance	Reliability Test Report	Report Number	
		EVT-001-1124	

Client Company

: Surveon Technology, Inc.

2F., No. 102, Chung-Shan Rd., Sec. 3, Chung-Ho City.

Taipei Hsien, Taiwan 235, R.O.C.
Sample Name : 3260 Bullet Outdoor Camera

Date of Received : Apr. / 16 / 2010
Date of Test : Apr. / 16 / 2010

CERTIFICATE

TAF/ ilao-MRA Certificate of Independent Test Laboratory/ Approval Certificate No.: 1723 ISO / IEC 17025 Approval Certificate No.: 1723

WE HEREBY CERTIFY THAT:

The test shown in the attachment were made in accordance with the procedure indicated. We assume full responsibility for the accuracy and completeness of these tests and youth for the qualification of all persons taking them.

Post & Title	Name	Signature	Date	
Testing Engineer	Yu Huang	Guthary	Apr. / 20 / 2010	
Approving Manager	Casber Lu	Cole La-	Apr. / 20 / 2010	

NOTES

- . This report will be invalid if duplicated or photocopied in part.
- This report refers only to the specimen(s) submitted to test, and is invalid as separately used.
- This report is invalid without embossed stamp and signature of this company.





* * * World Advance Co., Ltd.
No.00, Ln.276, Healing Rd., Bade City, Teoyuan County 234, Talwan (R.D.C.)
Tel: (-866-0: 276-1:32 | Website : www.alab.com.tw





3rd Party Lab Certifications

- IK10 & IP66/67
 - Trusted 3rd Party Lab Certifications
 - Own Housing, Design, ESD, EMI Protected





IK10 Test

IP66/67 Test



Temperature & Humidity Test



Drop Test



Vibration Test



Altitude Chamber Test



Heating Test



Radiated Emission



Conducted Emission



Harmonic & Flicker



EFT & Surge & Dip



Input Test

Success Case - Kaohsiung City, Taiwan

"We have 3,000+ cameras installed on this city surveillance project. Surveon's industrial designed and 100% own manufactured cameras have made us feel confident about this project. The cameras are now being used for more than 3 years with an average failure rate of less than 0.03% which is really impressive and save a lot cost on maintenance" said, Tony Chan, manager for the KS city surveillance project.







Product Strength — Superior Image & Bandwidth Control



High Dynamic Range (120 dB)

• The details of the images can be seen clearly even under high contrast lighting conditions.

Day time



Surveon



Other Camera

Night time



Surveon



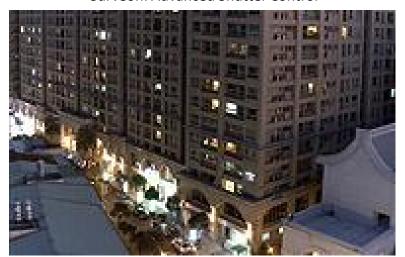
Other Camera



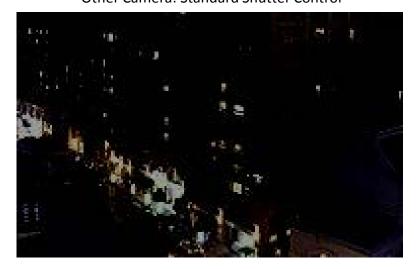
Low Light Sensitivity

• Surveon cameras support the maximum shutter control to 1 at 1 second to ensure the viewable video under ultra low light conditions.

Surveon: Advanced Shutter Control



Other Camera: Standard Shutter Control





Low Bit Rates

• **High profile setting** shows better quality images even under the same bit rate.

Surveon: H.264 High Profile @ 4Mbps CBR



Other Camera: H.264 Baseline @ 4Mbps CBR





Dynamic Streaming

- To reduce the bandwidth for network and storage, Surveon cameras support configurable
 frame rates and bit rates when no motion is detected or network fails.
- When there is motion detected, the camera frame rate and bit rate will automatically switch back to its original settings, enabling **network bandwidth and storage saving**.

No Motion: 5 FPS, 512 Kbps



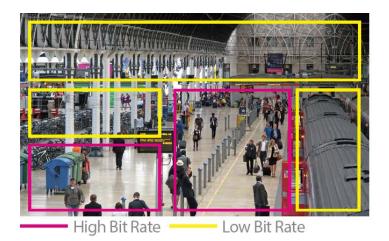
Motion: 30 FPS, 2 Mbps





Region of Interest (ROI) Encoding

- Support Region of Interest (ROI) Encoding to reduce the bit rate for best bandwidth control.
- Up to 8 regions with different configurations of image quality and bit rate a higher bit rate
 for the important area and a lower one for the less important section, saving bandwidth and
 storage.







Product Strength — Advanced Firmware Control



Smart Auto Quality Change

- Surveon cameras support at least two image profiles in different image parameters on the subjects of iris, shuttle speed, AGC, brightness, contrast, and DNR levels.
- The two profiles can be **automatically changed by day and night settings** to ensure a fixed image quality even under different lighting environments.



IRIS

AGC = 30

Shutter = 1/60

Brightness = 50

HDR ON

IRIS

AGC = 50

Shutter = 1/30

Brightness = 60

HDR OFF



Smart Auto WDR / HDR

 Surveon cameras can detect the lux distributed condition to enable or disable the WDR/ HDR functions automatically.

Surveon Smart HDR



Other Camera HDR





Smart De-noise

• Surveon camera series can detect the lux level to **dynamically adjust the de-noise value** to fit the day / night changes automatically.

Without De-noise



Smart De-noise in Low Light



Smart De-noise in Normal Light





Smart Shutter

 The Smart Shutter (Smart Object Speed Detection) automatically detects the lighting source and the speed of the object to compensate the shutter speed control to avoid the blurring image.

Surveon Smart Shutter



Other Camera Auto Shutter





Advanced IRIS Control

 Surveon's advanced iris control and in-house developed P-iris exceed the limitations of DCiris in conventional cameras, providing the excellent balance between focus, illumination and depth of fields.

Surveon



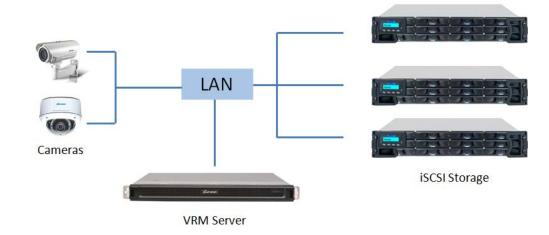
Other Camera





iSCSI Direct Recording

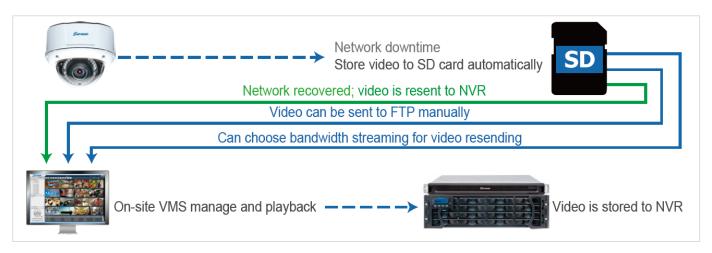
• Surveon cameras support video being directly recorded to the block level iSCSI storage to utilize network bandwidth and prevent overloading for the file system.





Offline Recording

- Store data to the microSD/SDHC card when the network loses connections.
- The recorded images will be transferred to NVR automatically once the network is reconnected.
- This recovery bandwidth can be configured to balance the streams of live view and recovery.





Product Strength — Built-in Video Analytics



Advanced Video Analytics

• Surveon Video Analysis Camera Series has 5 major functions:



Area-Entering or Leaving Detection

Object Loitering







Object Motion Direction Detection

Optical Diagnosis







Excessive Brightness

Out of Focus



Surveon Camera Highlight



Advanced Features

Usability:

- > Support IE10, IE11, Firefox, Google Chrome and Safari Browsers
- Auto UPnP Port Forward
- Auto Focus Value

Advanced Image Controls:

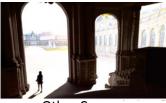
- > Smart Auto WDR / HDR, Smart De-noise & IRIS Control
- > Smart Shutter, Auto Focus
- > Dynamic Streaming, Record with Watermark
- Dead Pixel Correction, Lens Dewarp

Other Functions:

- > Support microSDXC Card (Max. 64GB)
- Network Disconnection with FPS / Bit Rate Change
- Digital Input Trigger Day / Night Switch
- > Support H.264 SVC-T, Support IP Filter
- Event Trigger Action Snapshots to SD Card or NAS







Surveon Other Camera





Complete Product Lineup

- From 1M, 2M, 3M, 5M full line & all form factors
- Advanced 3M real-time HDR & VA cameras















Surveon Camera Models

Туре	Resolution	Economical	Professional	Premium
Вох	1 MP	CAM1200, CAM1201		
	2 MP		CAM2311SC	CAM2311SC, CAM2331SP
	3 MP			CAM2441SC, CAM2441HI
	5 MP			CAM2511
Bullet	2 MP		CAM3351R4/R6, CAM3361LV	CAM3371EM/EV
	3 MP		CAM3451R3/R63,	CAM3471HEM/HEV,
Bullet			CAM3461LV	CAM3471HI
	5 MP			CAM3571M/MP/VP
	1 MP	CAM4211, CAM4221		
	2 MP	CAM1320S2	CAM4311S2, CAM4321LV	
Indoor Dome			CAM4410S2,	
indoor bome	3 MP	CAM1420S2	CAM4411S2/S3/S4/S6,	
			CAM4421LV	
	5 MP		CAM4521LV	
Outdoor Dome	2 MP		CAM4351R2, CAM4361LV	CAM4371HEM/HEV
	3 MP		CAM4461LV	CAM4471HEM/HEV,
				CAM4471HI
	5 MP		CAM4561LV	CAM4571M/MP/VP
PT/PTZ Dome	D1			CAM6181
	2 MP		CAM5321S4	CAM5330SZ, CAM6351,
				CAM6351A
	3MP			CAM6471EZ
Fisheye	5 MP			CAM4571RF, CAM7510,
				CAM7511

3rd-party VMS Compatibility List

Surveon camera models have been fully tested for compatibility with the 3rd-party VMS solutions, giving customers a broad range of selections for their projects. Check out the compatible VMS Solution Provider List.

















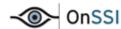


















Ask Surveon

www.surveon.com sales@surveon.com



Thank You

Surveon, your reliable partner for growth