

# Surveon H.265 Camera Introduction

See Clearly While Saving Bandwidth and Storage

The spec. might change without notice  
Surveon is not liable for future spec change



Advantage to Customer

H.265 Camera Series Overview

Product Advantages

Technical Information



- **Save Maintenance Effort**
  - Industrial-grade Component with IK10 & IP67
  - Wide Temperature
- **See Details Clearly under Different Lighting Conditions**
  - High Dynamic Range (120dB)
  - Built-in IR & Car-grade LED
- **View Smoothly & Save Storage**
  - Dynamic Streaming
  - ROI Encoding



# H.265 Camera Series Overview

**High Resolution**  
2MP (1920 x 1080 @ 30fps)

**Advanced IPC Functions**  
HLC, WDR, 2D/3D Noise Reduction, ROI, Defog,  
Privacy Mask



CAM3351E4-5



CAM3371EM-5



CAM4311E2-5



CAM4371EM-5

**High Reliability**  
Industrial-grade Component with IK10,  
IP67 and Wide Temperature

**H.265 Video Compression**  
Save 40%-50% Bandwidth Compared to  
H.264

**Excellent Image Quality**  
Optimized Image Processing and Codec  
Integration

# Product Advantages

- **Industrial-grade Component**

- All Surveon cameras are with industrial-grade components to maintain low failure rates for 24/7 operations

- **Wide Temperatures**

- Handle harsh outdoor conditions including  $-40^{\circ}\text{C}$  ~  $60^{\circ}\text{C}$  temperature environment

- **IP67 & IK10**

- Protected from dust and against the effects of water
- Vandal resistant



# Excellent Image Quality

- Optimization in optical engineering, including image processing and codec integration, provides Surveon H.265 cameras with **ideal image quality** and **low light sensitivity**.



Conventional Camera



Surveon's Network Camera



Conventional Camera



Surveon's Network Camera

# Advanced IPC Functions (1/2)

- **HLC (Highlight Compensation)**

- Help resolve details in darker areas under very brightly lit conditions



Conventional

Surveon

- **WDR (Wide Dynamic Range)**

- Correct the intense back light surrounding a subject and enhance the ability to distinguish its feature, color and shape



Conventional

Surveon

- **2D/3D Digital Noise Reduction**

- Remove noise from a signal to improve image quality for better object identification



De-noise Off

De-noise On

# Advanced IPC Functions (2/2)

- **ROI (Region of Interest)**

- Allow images to be compressed to the suitable quality with the lower bit rate, saving bandwidth and storage



- **Defog**

- Improve the quality of the captured images in poor weather conditions, such as fog, smog or smoke, enhancing the visibility and details of the images



- **Privacy Mask**

- Allow areas of an image to be hidden from view to protect sensitive parts of an image being seen



# H.265 Video Compression (1/2)

- **Saving budget** of storage or extend the data retention days

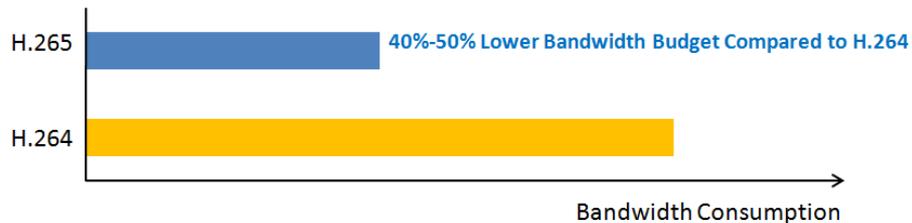
		H.265 1080P	H.264 1080P
Bitrate (Mbps)		2	4
Storage Space (TB)	16 CH / 30 days	9.92	19.84
	32 CH / 60 days	39.68	79.36
	64 CH / 180 days	238.08	476.16

\*1 CH **H.265** required storage space per month (30 days) =  $2(\text{Mbp})/8*3600*24*30/1024/1024 = 0.62 \text{ TB}$

\*1 CH **H.264** required storage space per month (30 days) =  $4(\text{Mbp})/8*3600*24*30/1024/1024 = 1.24 \text{ TB}$

# H.265 Video Compression (2/2)

- **40%-50% lower bandwidth** requirement compared to H.264
- **50% bit rate reduction** compared with H.264 at the same visual quality



# Technical Information

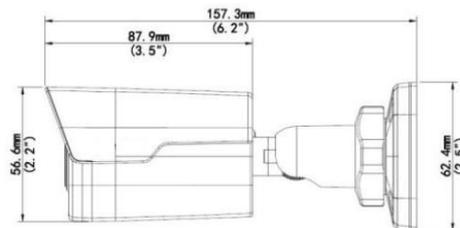
# H.265 Camera Series Models



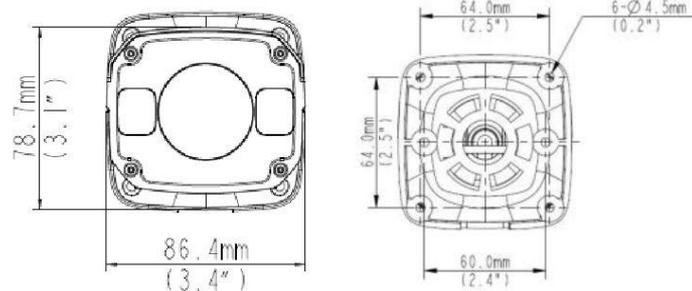
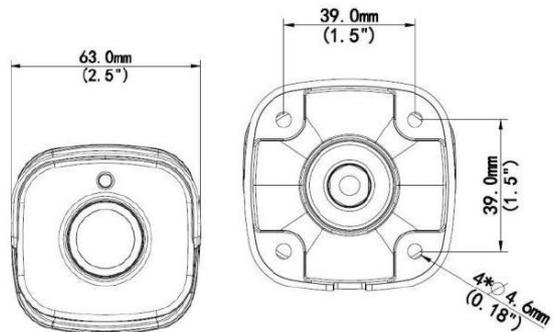
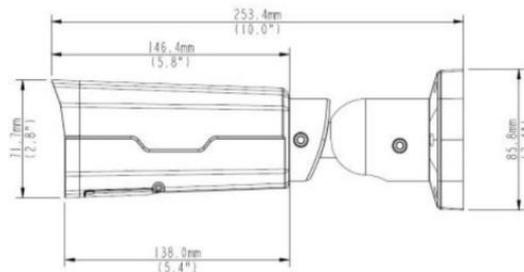
Model Name	CAM3351E4-5	CAM3371EM-5	CAM4311E2-5	CAM4371EM-5
Description	2M H.265 D/N Bullet IP Camera	2M H.265 D/N Bullet IP Camera	2M H.265 3-Axis D/N IP Fixed Dome	2M H.265 3-Axis D/N IP Fixed Dome
Image Sensor	1/2.7" Progressive Scan	1/2.9" Progressive Scan	1/2.7" Progressive Scan	1/2.9" Progressive Scan
Lens	f4.0 mm, F1.8	f2.8-12 mm Autofocus, F1.4	f2.8 mm, F2.0	f2.8-12 mm Autofocus, F1.4
WDR	Yes (DWDR)	Yes (120dB)	Yes (120dB)	Yes (120dB)
IR LED	Yes (30M)	Yes (50M)	Yes (30M)	Yes (30M)
Min Illumination	0.005 Lux @ F1.8 (Color) 0 Lux with IR on	0.01 Lux @ F1.4 0 Lux with IR on	0.01 Lux @ F2.0 0 Lux with IR on	0.01 Lux @ F1.4 0 Lux with IR on
Iris Control	Fixed	Auto Electronic	Fixed	Auto Electronic
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Video FPS	30 fps (1920x1080)	30 fps (1920x1080)	30 fps (1920x1080)	30 fps (1920x1080)
Audio	Built-in MIC	2 Way Audio	2 Way Audio	2 Way Audio
Alarm DI/DO	1/1	1/1	1/1	1/1
Local Storage	N/A	microSD x 1	microSD x 1	microSD x 1
Power	12V DC, PoE	12V DC, PoE	12V DC, PoE	12V DC, PoE
Dimension	62.4 x 63 x 157.3 mm	86 x 71.7 x 253.4 mm	Φ108.5 x 81mm	Φ148 x 111.3mm

# Hardware Overview (1/2)

CAM3351E4-5

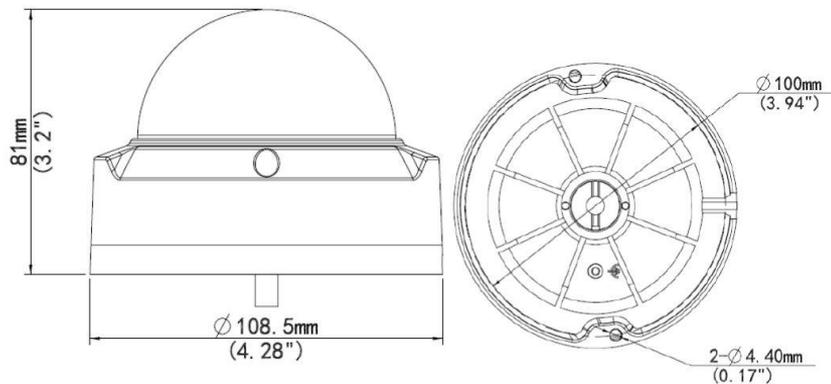


CAM3371EM-5

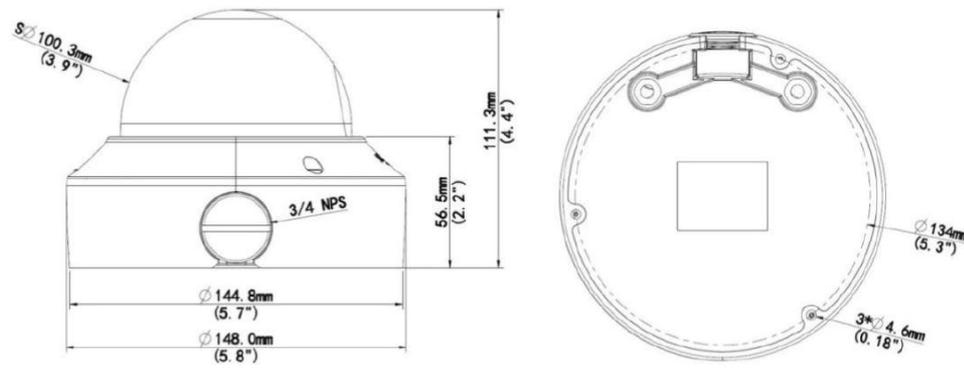


# Hardware Overview (2/2)

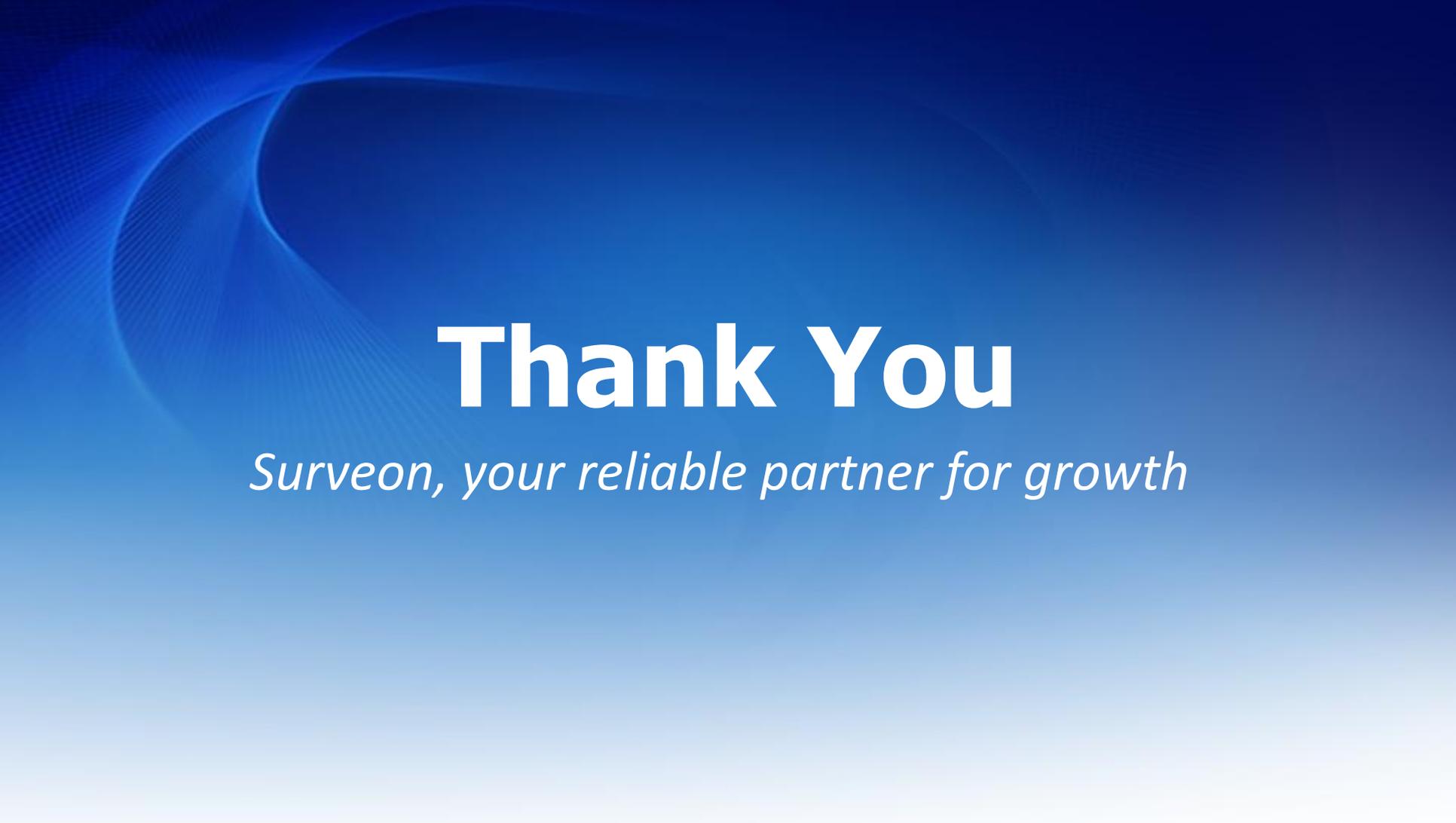
CAM4311E2-5



CAM4371EM-5



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The background features a gradient from dark blue at the top to light blue at the bottom. On the left side, there are abstract, flowing blue lines that create a sense of movement and depth. A subtle grid pattern is visible in the upper left quadrant, fading into the background.

# Thank You

*Surveon, your reliable partner for growth*