

# NVR5000 Series Introduction

# Content

- NVR5000 Series Overview
- Product Advantages
- Technical Information

# NVR5000 Series Overview

- Support 16-bay SATA hot swappable Hard Disk with redundant power supply
- Support NAS/iSCSI storage expansion
- Local SAS expansion to 64HDDs for large data storage
- Built-in RAID 1, 5, 6 for data protection
- Built-in Enterprise VMS with video analytics and active alarm system
- Support SurveOne, the exclusive web-based easy system management tool
- Reliable cableless and modularized hardware design



NVR5316 Enterprise Megapixel NVR

# Product Advantages

# Local Storage Expansion

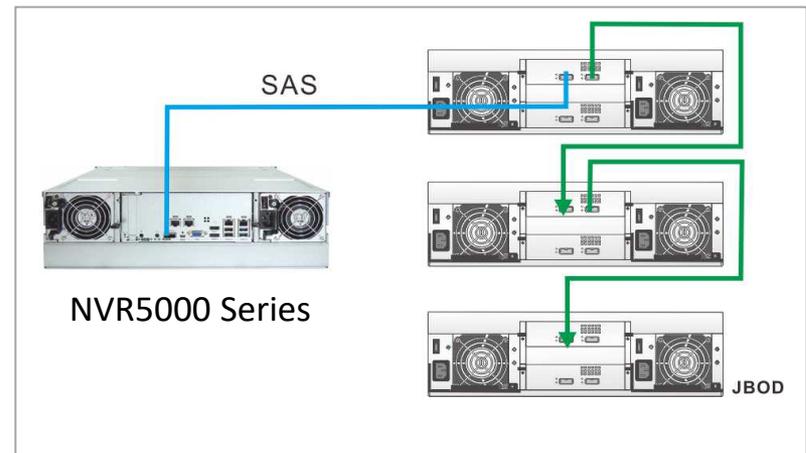
- Built-in up to 64 TB 16-bay storage capacity
- SAS ports for JBOD expansion up to 64HDDs
- Local expansion with simple cable connections; faster read/write performance and better stability

## Recording Days Expansion

	HDD	64 CH
NVR5000	16	30 Days
NVR5000 + 1 JBOD	32	45 Days
NVR5000 + 2 JBOD	48	60 Days
NVR5000 + 3 JBOD	64	90 Days

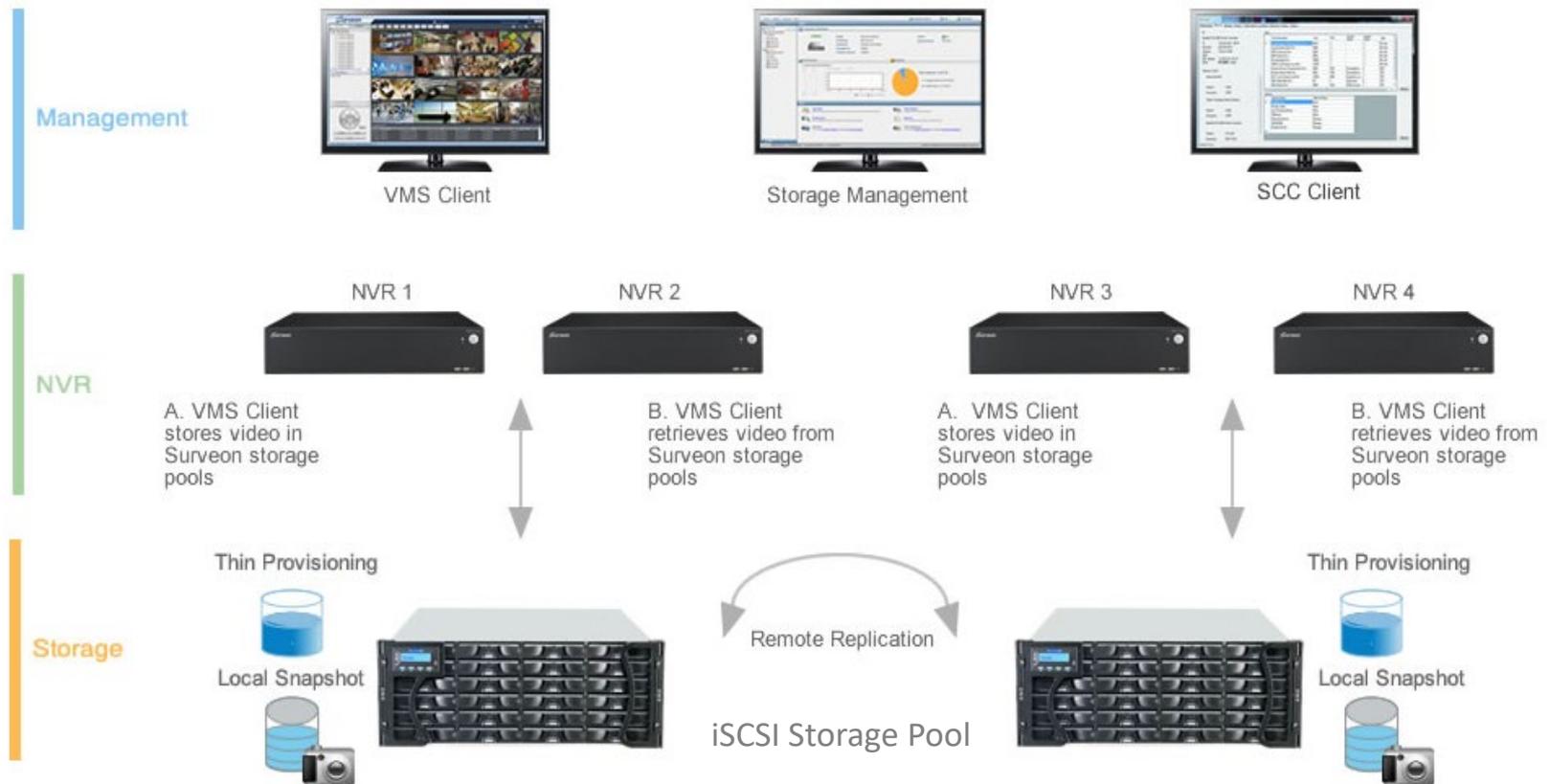
■ Based on 4TB HDD, 2Mbps bit rate, 24 hr recording, RAID 5 best data protection (Non-RAID for 2 Bay)

## Easy Local Expansion with JBOD



# Network Storage Expansion

- Surveon VMS 3.1 can backup and archive the recorded video to iSCSI storage



# Solid Data Protection

- Built-in RAID 1, 5, 6 to provide volume mirror and storage capacity for data integrity and long retention period

RAID Level Comparison Table

RAID Level	Min. HDD	Storage Capacity	Data Protection
RAID 1	2	$\frac{1}{2}$ N HDD	Best
RAID 5	3	N-1 HDD	Medium
RAID 6	4	N-2 HDD	High

■ N is the HDD installed in NVR5000

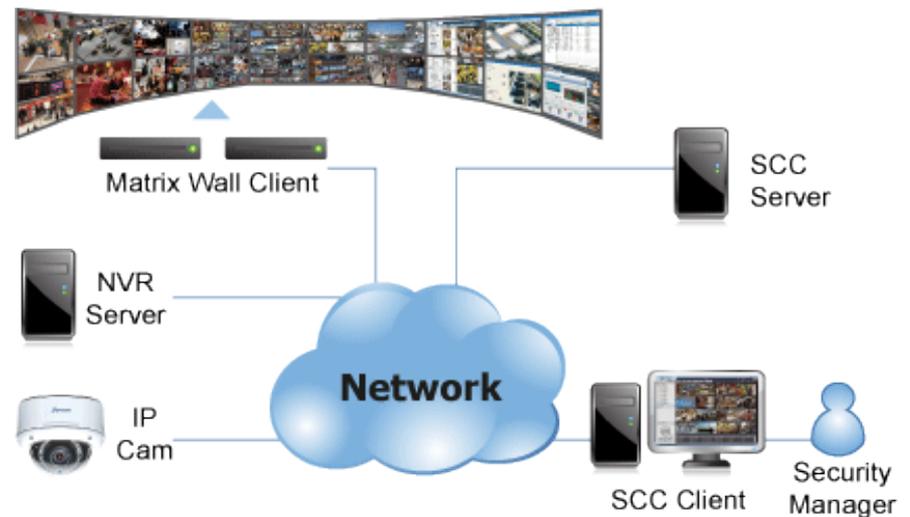
# Enterprise Video Management

- Built-in video analytics and active alarm system for optimized surveillance
- Multi-access makes management simple and flexible
- Centralized management and TV wall matrix for large-scale projects

Advanced VI



Multi-Access & Centralized Management



# Built-in Video Analytics

## Access Detection

- Hotel reception areas
- Entrances of hospitals, residential areas



## Virtual Wall

- Residential areas
- Surroundings of hotels campus, factories
- Important buildings



## Restricted Zone

- No-parking zones
- Entrances of warehouses
- Important facilities



## Virtual Fence

- High value products
- Important facilities, Properties
- Public objects



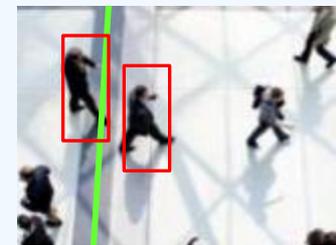
## Tailgating Detection

- ATM areas
- Garages, parking lots
- Access controls



## Counting

- People flows in stores
- Business VI integrations
- Warehouses
- Department stores



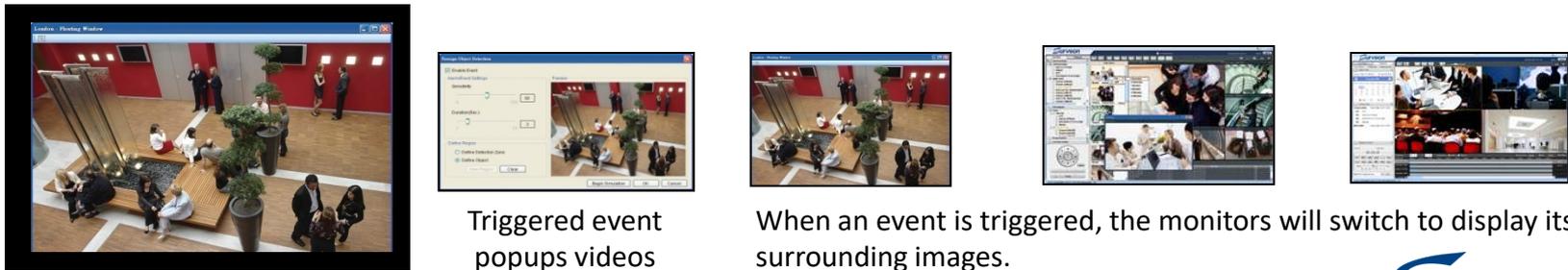
# Active Alarm System

- Support VI notifications to ensure rapid and accurate decisions

## Real-time VI Analytics & Notifications

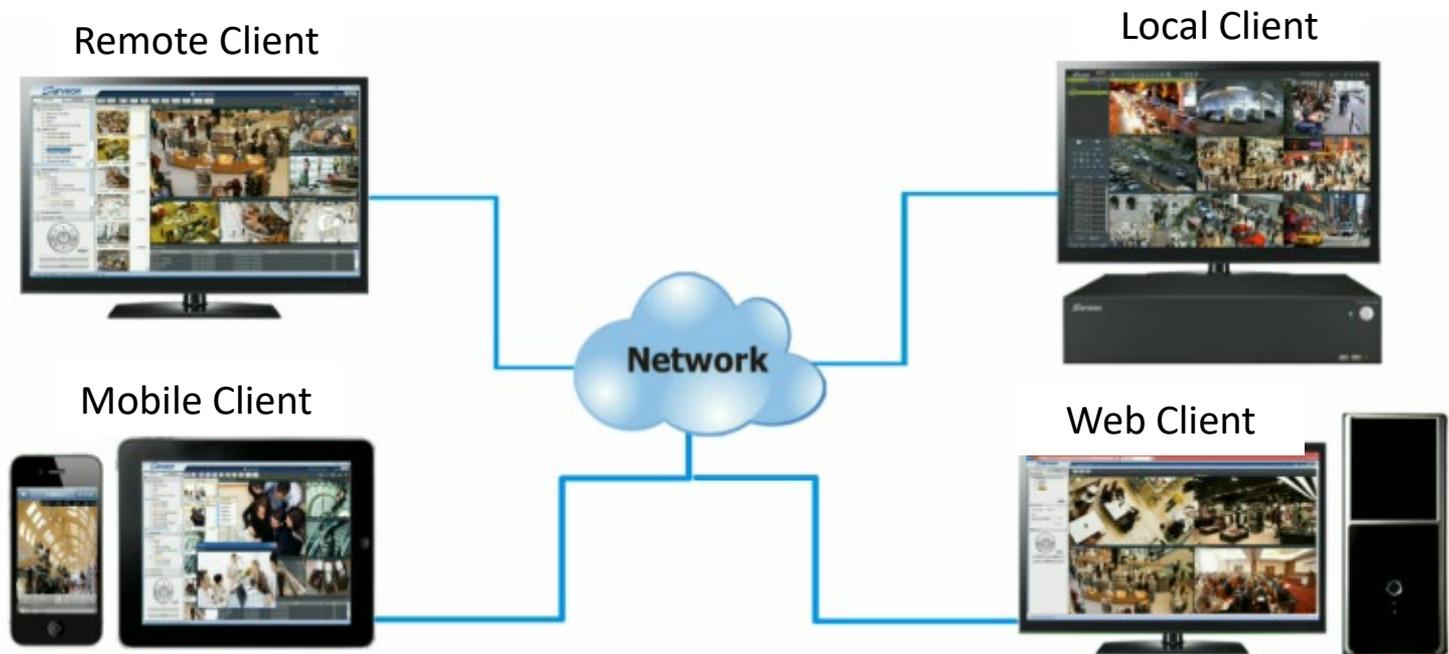


## Real-time Event Notifications



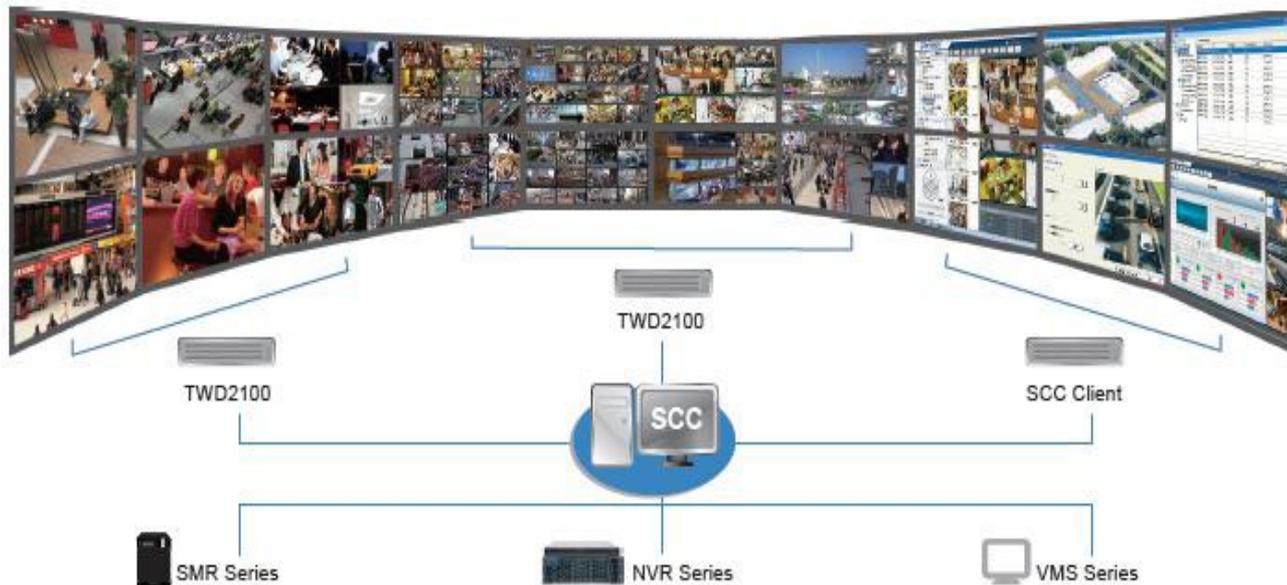
# Multi-Access for Easy Surveillance

- Support all clients live view, live audio, real time event alert, pan/tilt/zoom operations, digital I/O management , video Intelligence and more
- Mobile client supports iOS/Android/Window platform



# Surveon Control Center (CMS)

- Scalable and powerful TV Wall solution
- Simultaneous live views of over 200 cameras from multiple NVRs
- Built-in CMS centralized management
- Direct matrix client panel to manage and live view TV matrix



# SurveOne – Easy System Management

- An exclusive web-based management tool at no cost
  - NVR/camera real-time system status overview and monitoring
  - NVR/camera configuration copy, restore and backup
  - NVR/camera real-time event log information
  - Easy to check the status in a browser by using HTTP



# High Reliability

- Industrial-grade components to enhance product quality
- Cableless design to reduce dust and create better circulation to lower the heat inside the machine
- Swappable control board, fans and power supplies makes maintenance simple and lowers repair cost

Cableless Modules



Easy Maintenance



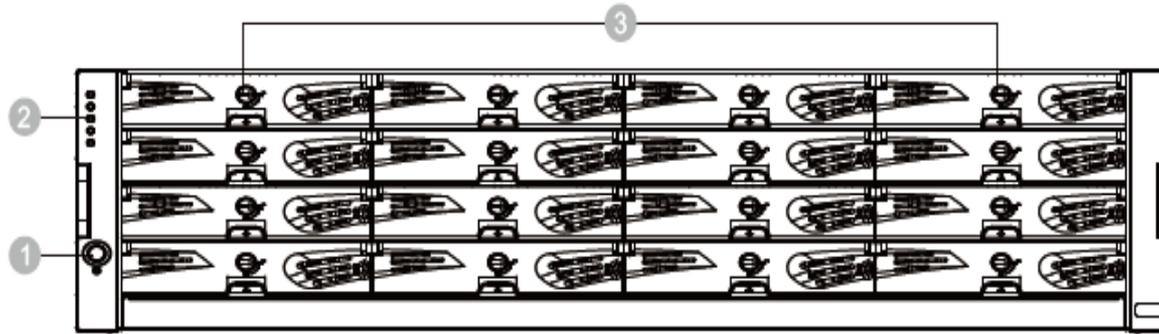
# Technical Information

# NVR5000 Series Models

	NVR5316	NVR5316A1
Position	Enterprise Megapixel NVR	
Form Factor	Standard Rackmount 3U Server	
CPU	Intel Core i3	Intel Xeon
Channels	16 – 32 Full HD	16 – 64 Full HD
Recording Throughput	384 Mbps	768 Mbps
Max. VI	8	8
HDD	16	
Max. HDD Expansion	128	
RAID	Non-RAID, 1, 5, 6	
I/O Interface	2x Gigabit Ethernet; 2x USB2.0 and 2x USB3.0 1x VGA; 2x HDMI; 2x SAS 6G Expansion Port 16 Pins for 8 in/2 out	
Dedicated Hardware Design	Cableless, Modularized	
Power Supply	Redundant	
Dimensions	130 (H) x 448 (W) x 500 (D) mm	
Display	Dual Monitors	
Surveon Control Center (CMS)	Yes	
Operating System	Linux	
Warranty	3 Years	

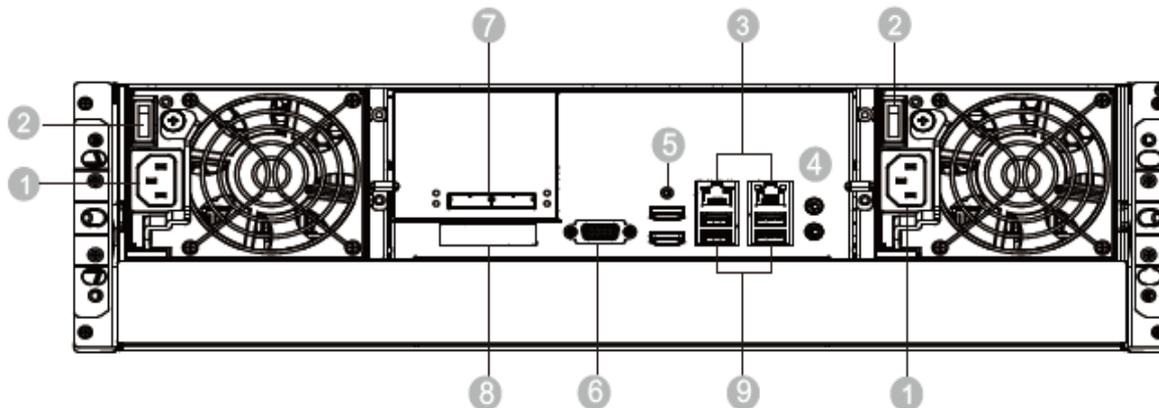
# Hardware Overview

NVR5000  
Front Panel



- 1 Power Button
- 2 LED Status Indicator
- 3 HDD Status Indicator

NVR5000  
Rear Panel



- 1 Power Socket
- 2 Power Switch
- 3 LAN Port
- 4 Line-out, Mic-in
- 5 HDMI Port
- 6 VGA Port
- 7 SAS Expansion Port (Optional)
- 8 Digital I/O Port
- 9 USB Port

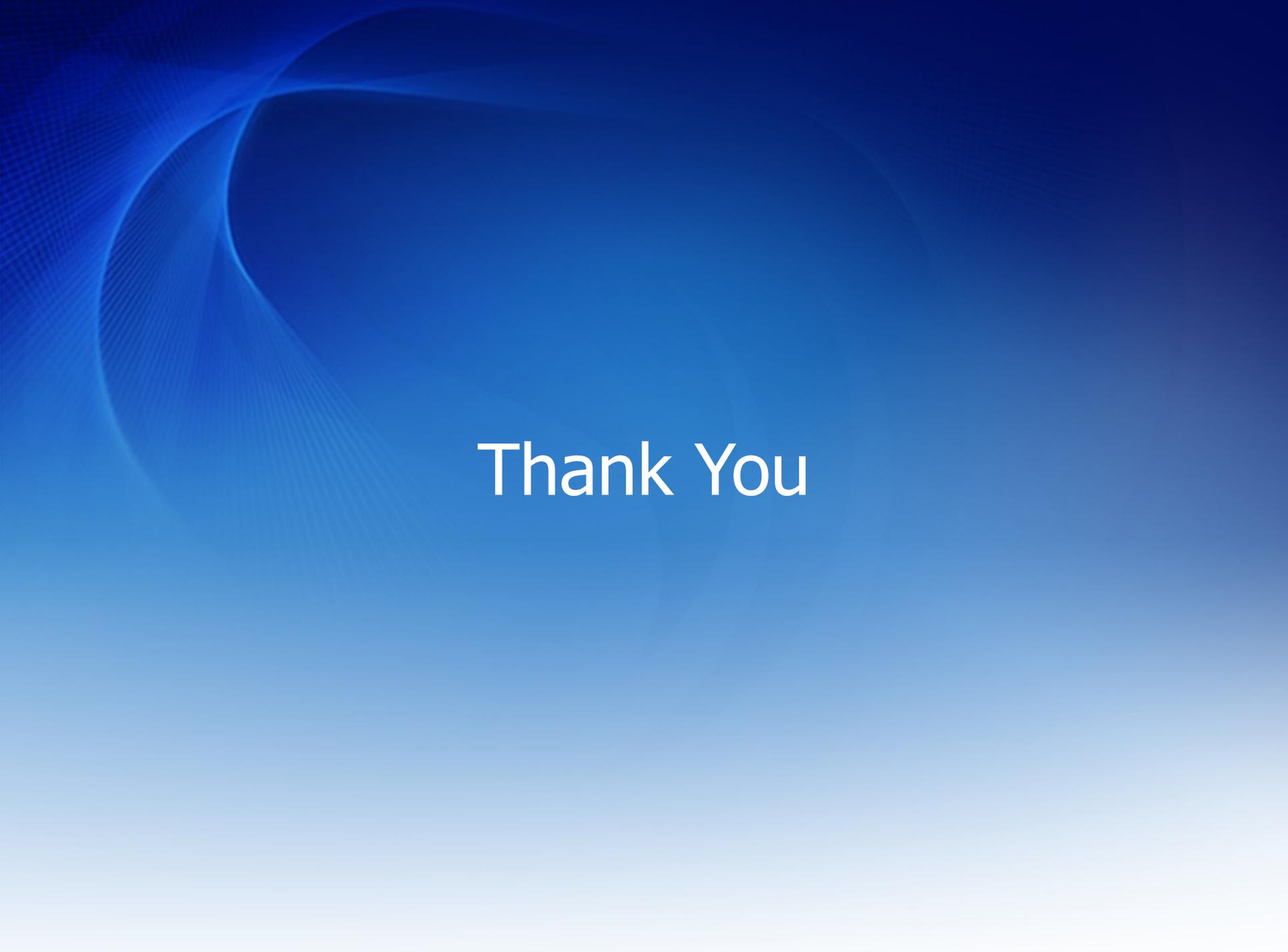
# Camera Support Capability

- For models supported by NVR5000, visit [Surveon Support Camera List](#)



# Ask Surveon

[www.surveon.com](http://www.surveon.com)  
[sales@surveon.com](mailto:sales@surveon.com)

The background is a gradient of blue, transitioning from a darker shade at the top to a lighter shade at the bottom. On the left side, there are several overlapping, flowing, translucent blue shapes that resemble liquid or smoke. These shapes are composed of fine, parallel lines that create a sense of movement and depth. In the upper left corner, there is a faint, grid-like pattern of small squares, which also appears to be part of the flowing shapes.

Thank You