

Camera SD Card Synchronization

Ensuring Seamless Video Coverage and Edge Redundancy



Overview

Defining Edge Storage and MicroSD Synchronization



What is Edge Storage?

Supports memory cards for standalone primary storage or NVR-combined secondary storage.



MicroSD Card Synchronization

During network interruptions, cameras record locally, then synchronize recorded files with the NVR server automatically once the connection is restored.

Features

Core Capabilities of Edge Synchronization



Automated Local Recording

Captures video directly to the camera's MicroSD edge storage when the NVR is unreachable.



Intelligent Auto-Synchronization

Uploads localized video clips seamlessly to the NVR upon restoration of the network connection.



Seamless Video Coverage

Guarantees zero gaps in video records during critical monitoring periods.

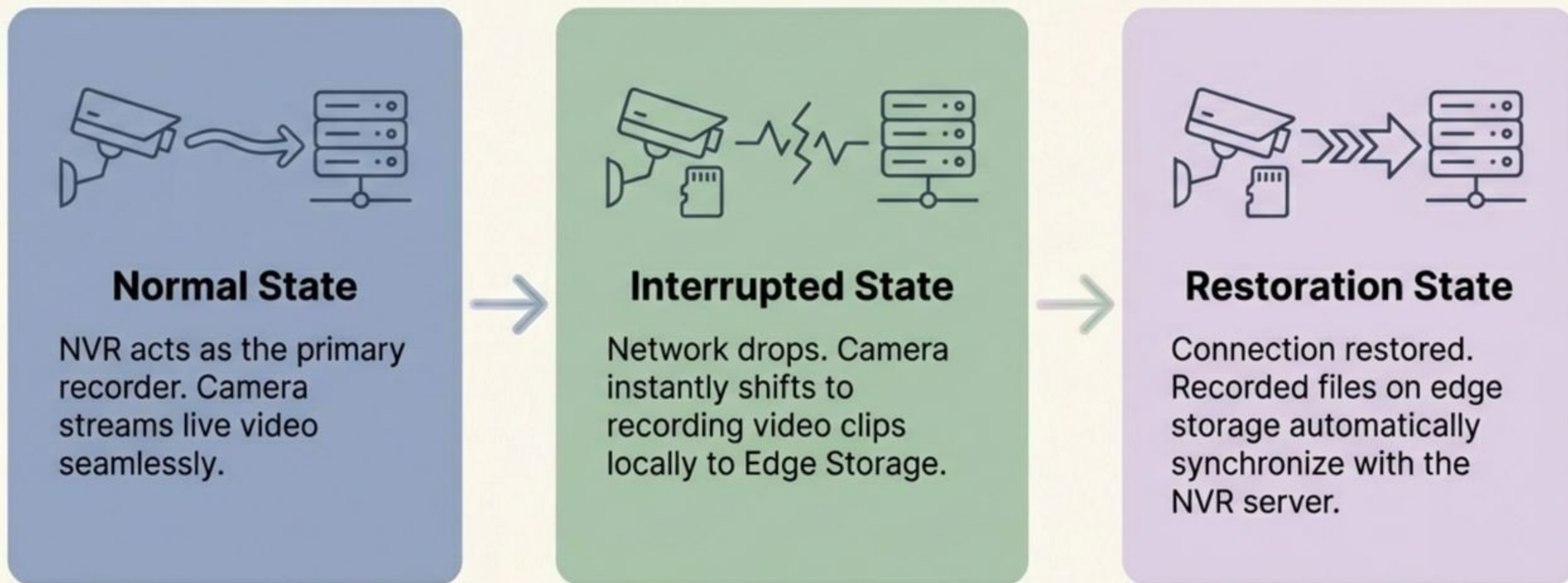


Primary/Secondary Flexibility

Functions independently as primary standalone storage or dynamically as a secondary backup.

Architectures

The Synchronization Workflow



Applications

Vertical Markets Requiring High-Level Video Redundancy



The Failover Imperative

Designed for projects where redundant NVR servers might fail due to localized network switch issues. Edge storage ensures the camera remains the ultimate failsafe.



High-Security Enterprise & Banking

Guarantees zero downtime and complete liability protection during localized network outages.

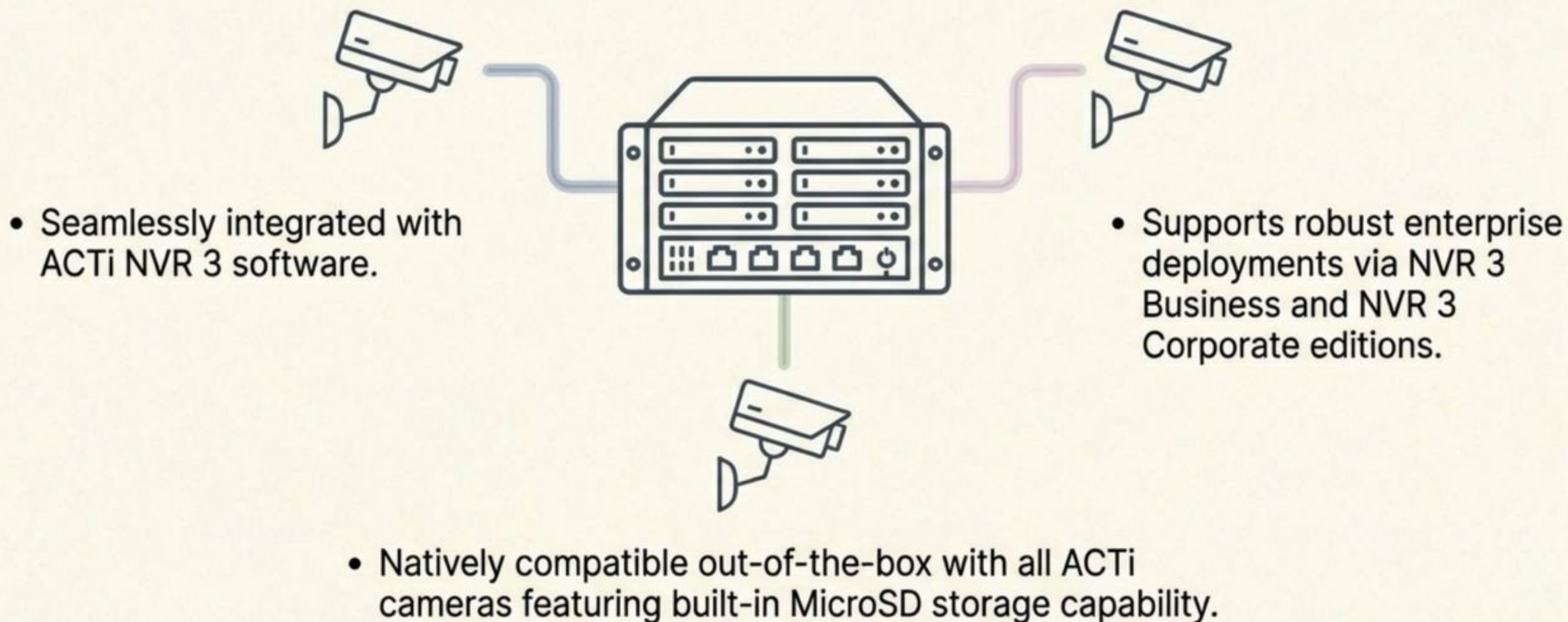


Critical Infrastructure & Remote Sites

Maintains absolute video continuity in off-grid or unstable network environments.

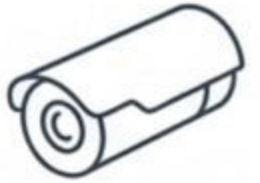
Solutions

Hardware and Software Integration Framework



Product Introduction

Product Matrix - Bullet Camera Lineup



Category	Models	Features
2MP Fixed	K31, K31-P1, Z316, Z316-P1	Extreme/Superior WDR, Extreme Low Light
4MP-6MP Fixed	A313 (4MP), A314 (6MP), E33A (5MP), K32, K32-P1 (4MP), K33 (5MP), Z317, Z317-P1 (4MP)	Extreme WDR
Vari-focal/Zoom (2-4MP)	A415 (3MP, 4.3x), A422 (4MP, 5x), A425 (2MP, 4.3x), A427 (4MP, 4.3x), B412 (3MP, 10x), I42, I42-K1 (2MP, 36x), K41 (2MP), K42 (4MP, 4.3x), Z412 (2MP, 4.3x), Z413, Z413-P1 (4MP, 4.3x)	Adaptive IR, Extreme WDR
Vari-focal/Zoom (5-8MP)	A421 (8MP, 4.3x), A423 (6MP, 5x), A426 (5MP, 4.4x), B419 (5MP, 10x), E43B (5MP Vari-focal), K43 (5MP, 4.3x)	Superior Low Light Sensitivity

Product Introduction

Product Matrix - Dome & Hemispheric Lineup



Category	Models	Features
Fixed Domes	A76, E918, E933, E933M, E936, K71, K72, Z910, Z911, Z97, A77, E93, K73, Z714	Extreme WDR, Built-in Analytics
Zoom Domes (1-4MP)	A811 (4MP, 5x), A820 (4MP, 5x), A85 (2MP, 4.3x), B64 (1.3MP, 3x), E618 (3MP, 4.3x), K81 (2MP, 4.3x), K82 (4MP, 4.3x), Z812 (2MP, 4.3x), Z813 (4MP, 4.3x)	
Zoom Domes (5-10MP)	A817 (8MP, 4.3x), A821 (6MP, 5x), A826 (5MP, 4.4x), A86 (5MP, 5x), E815 (5MP, 4.3x), E816 (10MP, 4.3x)	
Hemispheric/Fisheye	A711 (12MP), A713 (5MP), B511A (12MP), B57 (6MP), B76A (12MP), E96 (5MP)	Up to 12MP, Superior Low Light

Product Introduction

Product Matrix - PTZ & Turret Lineup



Category	Models	Features
PTZ (2-3MP)	A956 (2MP, 40x), B911 (3MP, 10x), B915 (3MP, 36x), B916 (2MP, 20x), B923 (3MP, 30x), B934 (2MP, 30x), I915 (2MP, 36x), I98 (2MP, 33x), Z958 (2MP, 16x)	Extreme WDR, up to 40x Zoom
PTZ (4-8MP)	A952 (8MP, 22x), A955 (5MP, 40x), B912 (5MP, 10x), B928 (5MP, 36x), Z956 (4MP, 33x), Z957 (4MP, 33x), Z959 (4MP, 16x)	
Turret Lineup	Z54 (4MP Fixed), Z78 (2MP Fixed), Z79 (4MP Fixed), Z814 (4MP Zoom, 4.3x)	Day/Night, Extreme Low Light Sensitivity

Product Introduction



Product Matrix - Box, Cube, Covert & Intercom

Category	Models	Features
Box Cameras	A213 (5MP), A214 (5MP, 40x), A29 (2MP), B26 (3MP, 36x), E217 (2MP), Q22, Q22-K1 (2MP)	Built-in Analytics, Extreme WDR
Cube Cameras	C11W (1.3MP), E11A (1MP), E13A (5MP), E14 (10MP), E16 (10MP Fisheye Cube), E19 (5MP)	
Covert & Intercom	Q113 (2MP Covert), Q115 (5MP Covert), Q950 (6MP Door Station), Q970 (2MP Intercom)	Superior Low Light for covert operations

Product Introduction

Product Matrix - Compatible NVR & Server Ecosystem



	Category	Models
1	BNR & GNR Series	BNR-300, GNR-350
2	INR Series	INR-401, INR-406, INR-407, INR-413, INR-415, INR-416, INR-417, INR-418, INR-490, INR-930, INR-960
3	KNR & ZNR Series	KNR-421, ZNR-424

Summary

The Edge Storage Advantage



Zero Data Loss Capability: Edge synchronization ensures seamless video continuity even during complete localized network or redundant NVR failure.



Unmatched Redundancy: Protects mission-critical operations in high-security, banking, and infrastructure verticals.



Massive Ecosystem Flexibility: Natively supported by ACTi NVR 3 software across 80+ distinct camera models spanning Bullet, Dome, PTZ, Box, and Covert form factors.

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