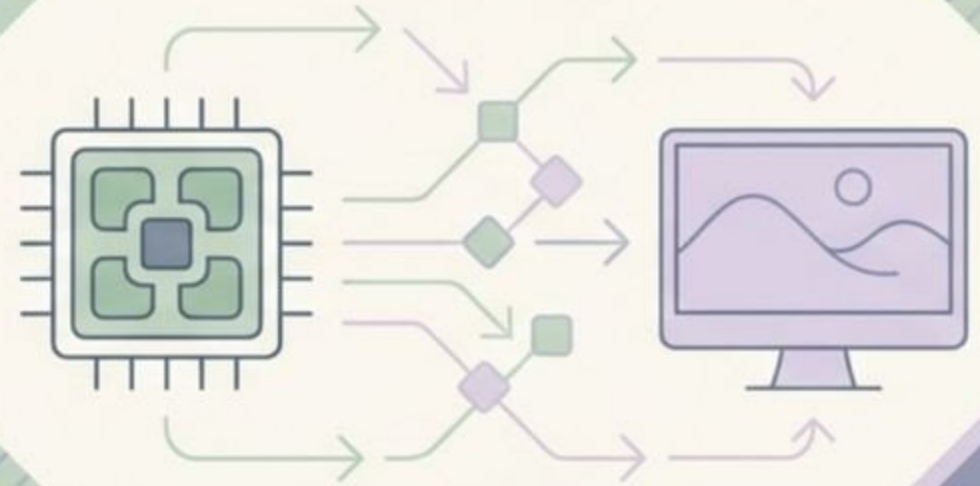


Hardware Accelerated Decoding

Experience Smooth
Live View with
GPU-Powered
VMS Clients



Overview

The Decoding Bottleneck in High-Channel Systems

What is decoding?

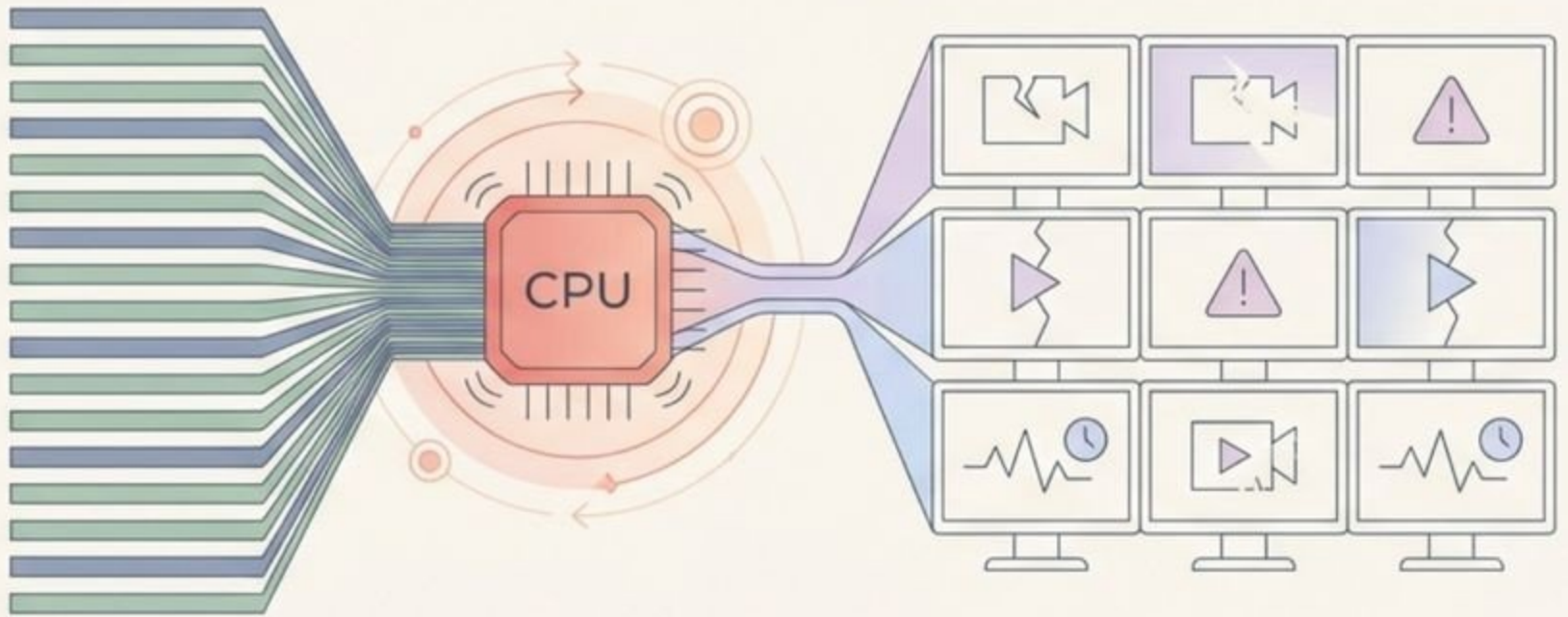
The process of reverting compressed video streams back to their original format for live viewing or playback.

The Bottleneck

This process requires intense computation on the VMS client's PC.

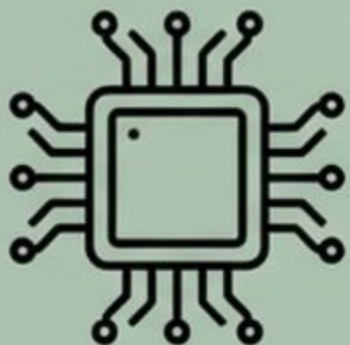
The Impact

When displaying a large number of concurrent channels, the CPU overloads, failing to provide full frame rate decoding and resulting in a lagging, lowered frame rate experience.



Features

Unlocking Performance with GPU Power



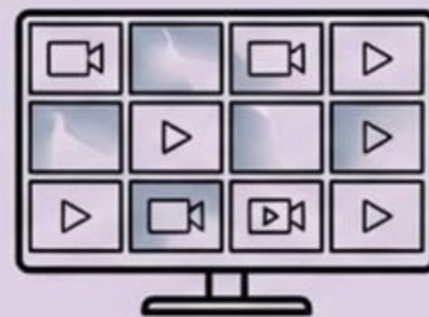
Hardware accelerated decoding

Natively supported by ACTi's VMS ecosystem to offload heavy processing.



Efficient GPU computing support

The client PC makes full use of its built-in GPU, which is specifically designed to handle parallel video processing tasks efficiently.



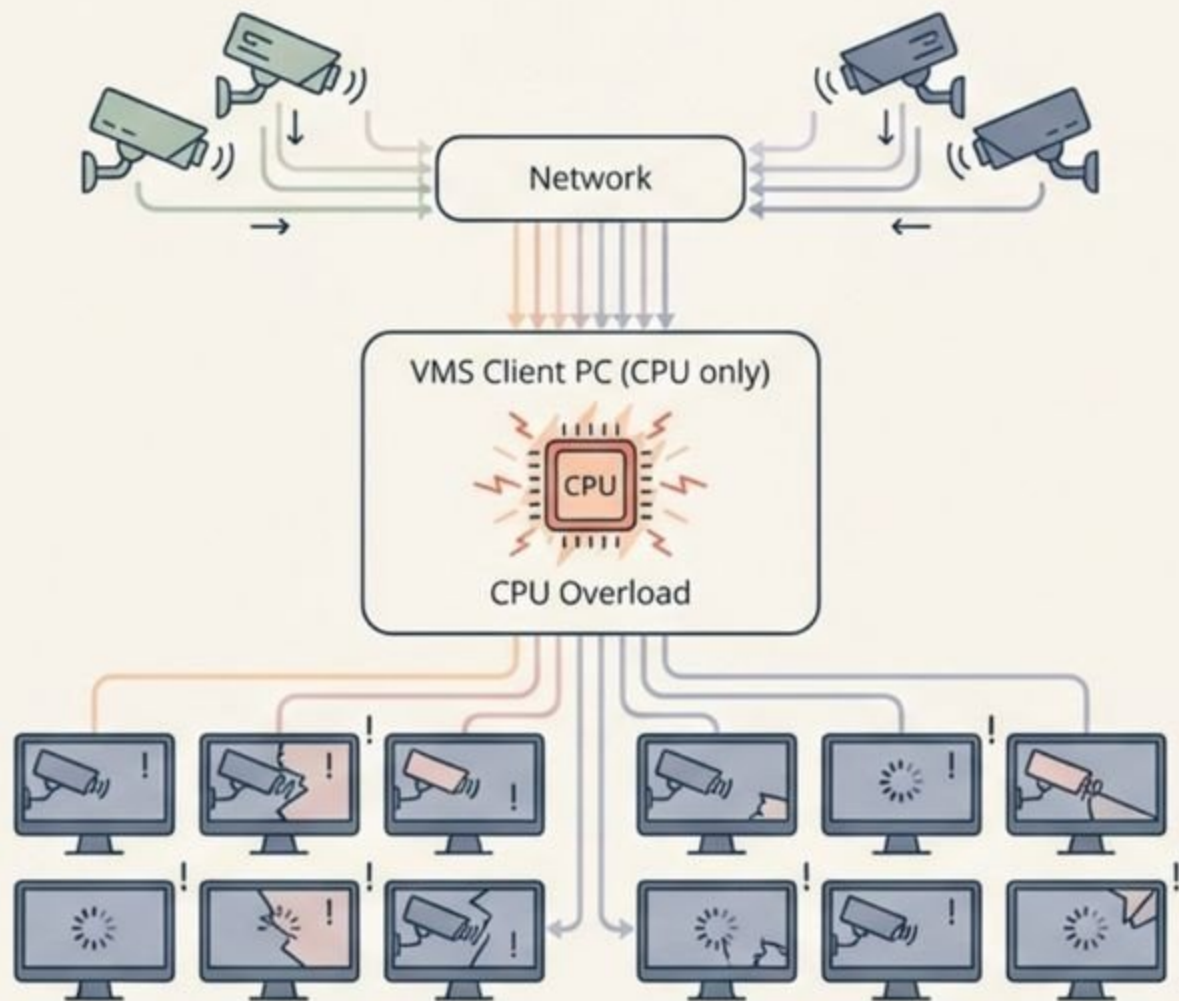
Full frame rate decoding

Guarantees smooth playback and live view, even when massive channel counts are displayed simultaneously.

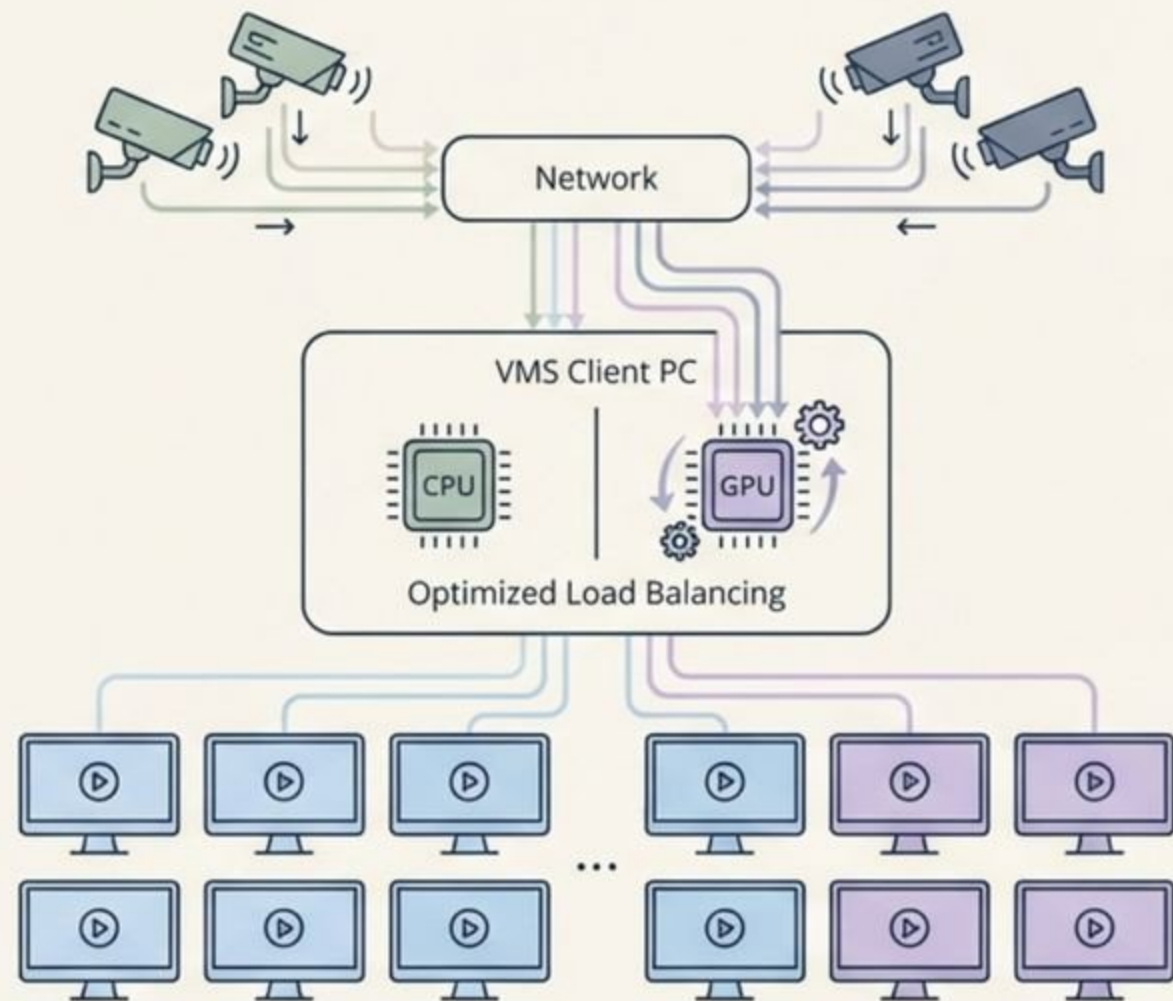
Architectures

Standard CPU vs. CPU + GPU Decoding Processing

Standard CPU Architecture



CPU + GPU Architecture



Applications

Ideal for Mission-Critical Vertical Markets

Required for mission-critical projects where smooth live video with full frame rate for a large number of channels per screen is strictly mandatory.



City Surveillance

High-density camera networks monitoring traffic and public spaces.



Casinos & Gaming

Zero-latency requirements for table monitoring and asset protection.

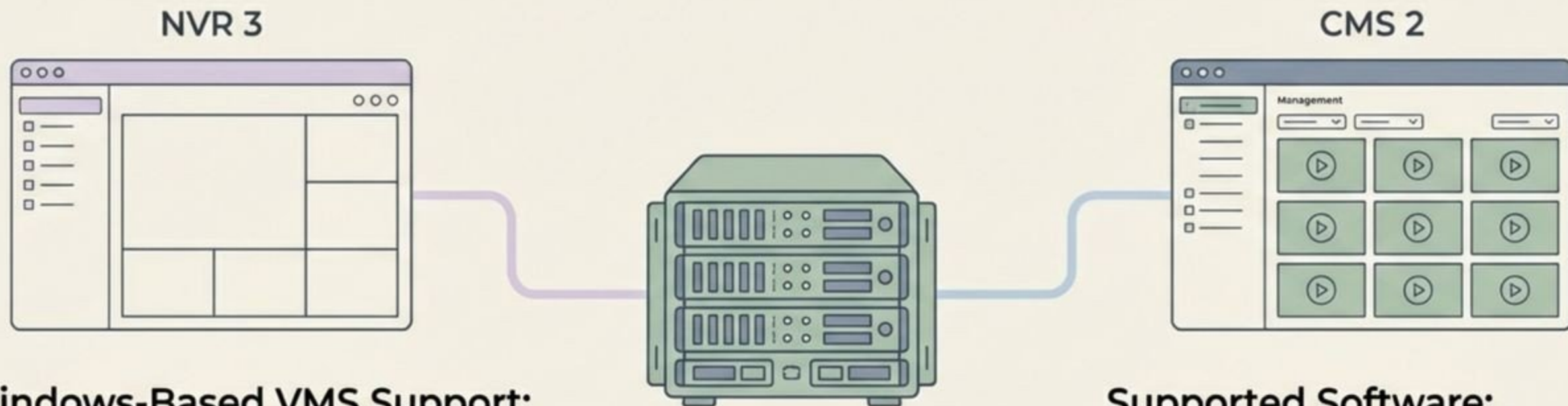


Large-Scale Control Rooms

Massive video walls requiring fluid, synchronized multi-screen decoding.

Solutions

Seamless Integration Across the ACTi VMS Ecosystem



Windows-Based VMS Support:

All ACTi Windows-based VMS products natively utilize the GPU installed in the VMS client PC.

Standalone Server Context:

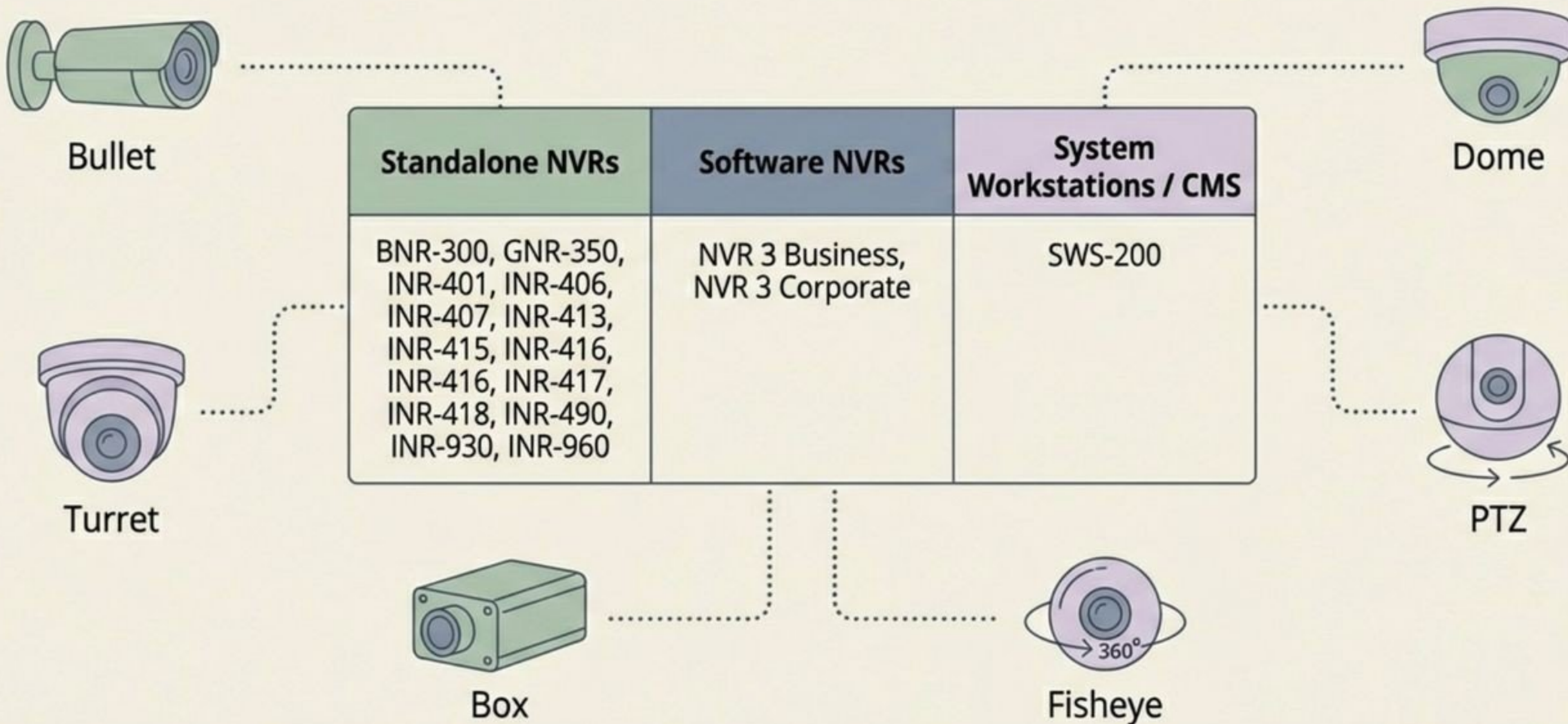
For enterprise deployments, standalone servers (NVR/CMS) offer immense capacity scaling and failover redundancy, perfectly complementing GPU-accelerated client viewing stations.

Supported Software:

Works seamlessly with NVR 3 and CMS 2.

Product Introduction

Product Matrix: Centralized VMS Hubs & Endpoint Integration



Product Introduction

Comparison: Selecting the Right Decoding Solution

Standalone Servers (INR / BNR / GNR series)



Best for turnkey, plug-and-play hardware deployments.

Built-in redundancy options, dedicated storage arrays, and optimized for out-of-the-box hardware acceleration.

Software Solutions (NVR 3 Business / Corporate)



Best for IT-heavy environments deploying their own custom VMS client PCs.

Flexible capacity tiers scaling from mid-size business to massive corporate grids.

System Workstations (SWS-200)



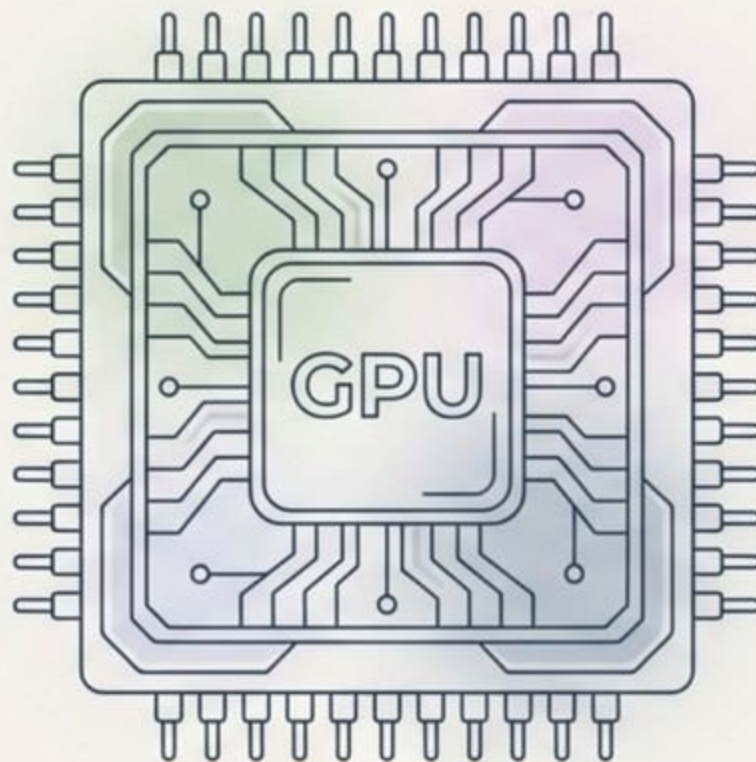
Dedicated decoding client workstations built to leverage GPU acceleration for TV walls and control rooms.

Summary

Guaranteed Performance for High-Density Layouts

Solve the Bottleneck

Offloading computing to the GPU prevents CPU strain during massive multi-channel decoding.



Uncompromised Quality

Maintain full frame rates and smooth live views in the most demanding mission-critical scenarios.

Ecosystem Ready

Instantly deployable across ACTi's extensive lineup of NVRs, CMS, and standalone workstations.

Contact Us

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