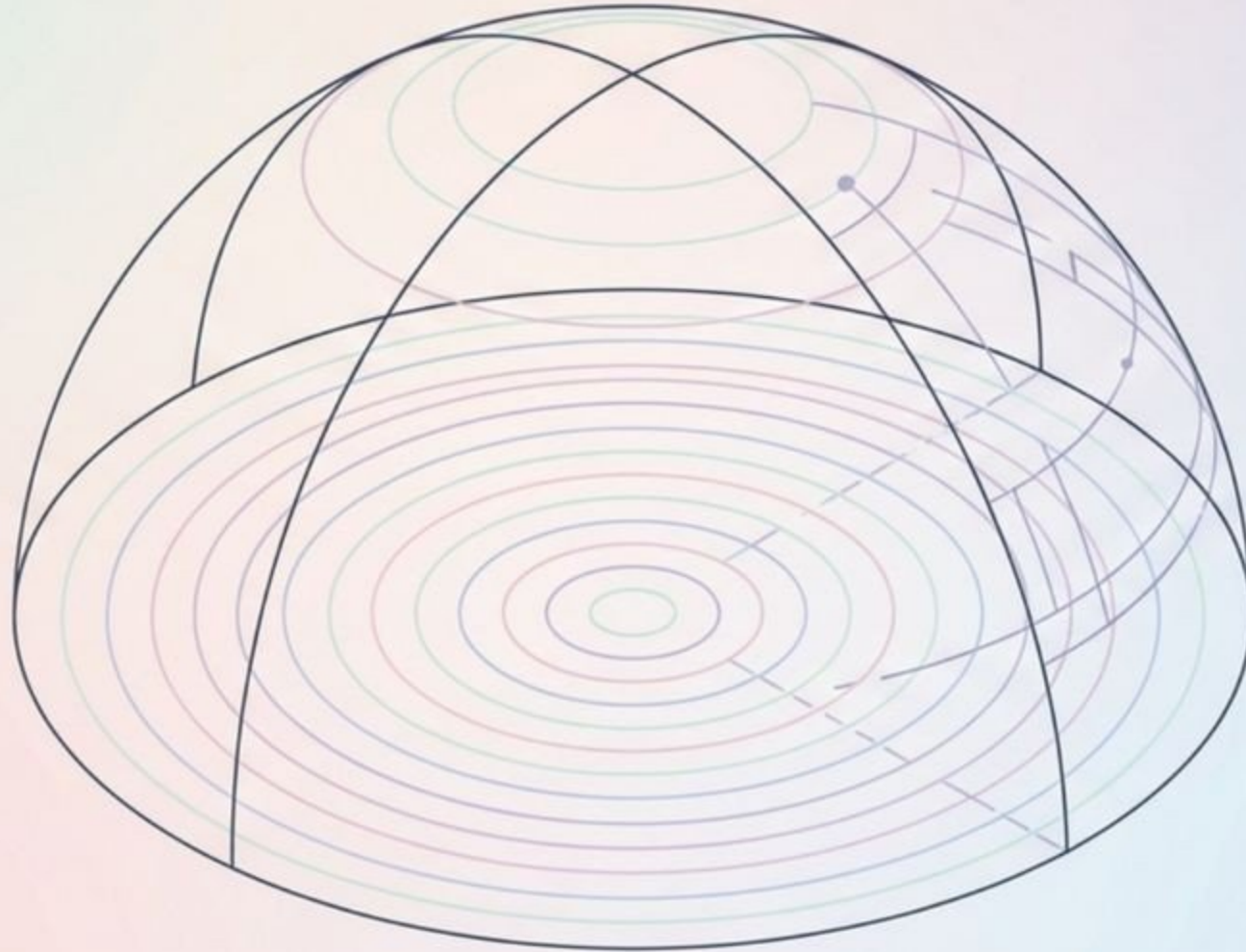


Hemispheric Surveillance

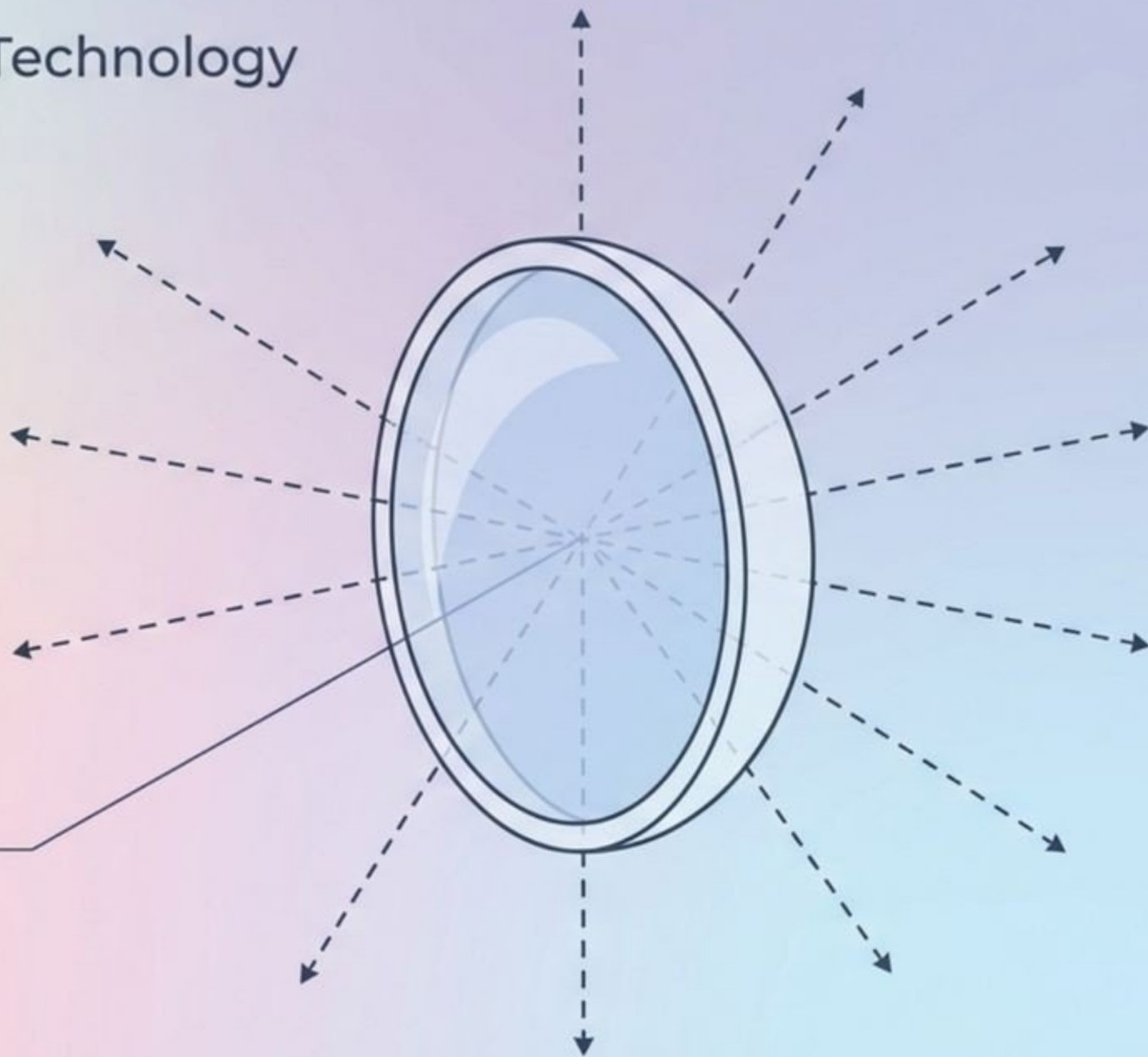
Single Camera with the Fisheye Lens for 180° or 360° Surveillance.



Overview

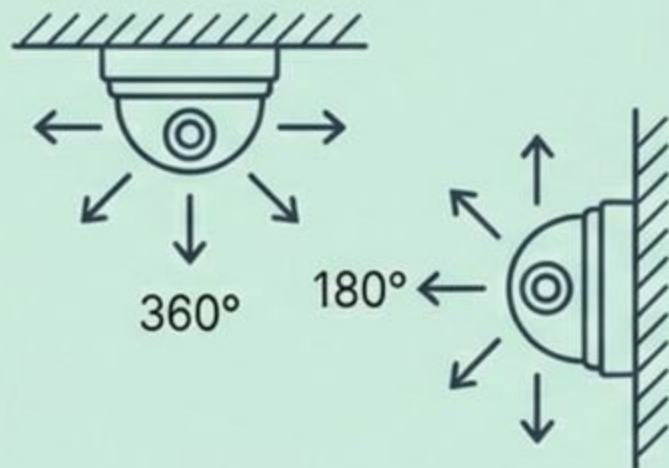
The Core Concept of Hemispheric Technology

- Utilizes a single lens and a single sensor to provide expansive 180-degree or 360-degree views.
- Specialized fisheye lenses feature a unique curved shape designed to capture light from all directions simultaneously.
- Eliminates blind spots for comprehensive total-area monitoring.



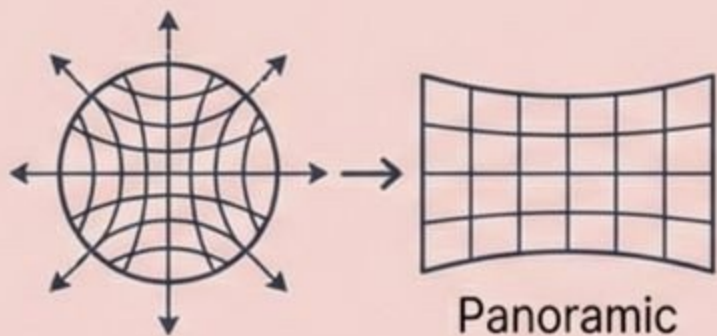
Features

Key Capabilities of Hemispheric & Fisheye Cameras



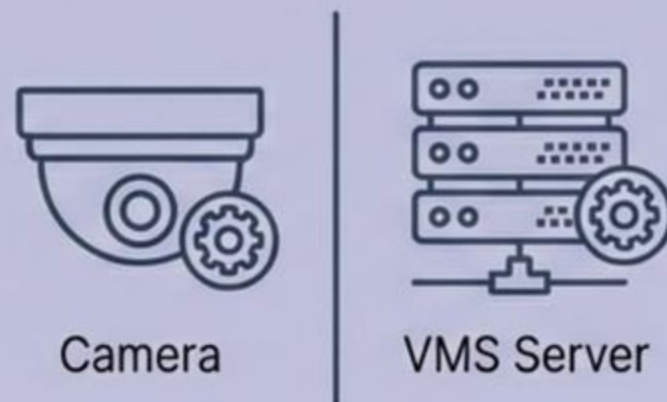
180° or 360°?

Ceiling mounts face downwards for 360° surround video. Wall mounts face forward for a 180° view. Wedge mounts optimize wall angles.



What is Dewarping?

A digital processing technology that uses pixel adjustments to convert a circular, distorted fisheye image into a flat, human-eye-friendly panoramic image.



Camera or VMS Dewarping?

Processing happens either inside the camera (Hemispheric Models) or is offloaded to the VMS (Fisheye Models).

Architectures

Flexible Deployment: Edge vs. Server Processing

Path A: Hemispheric Cameras



Pre-processed stream



- Built-in dewarping inside the camera.
- Saves VMS computing resources.
- Easier software integration.

Path B: Fisheye Cameras



Raw fisheye stream

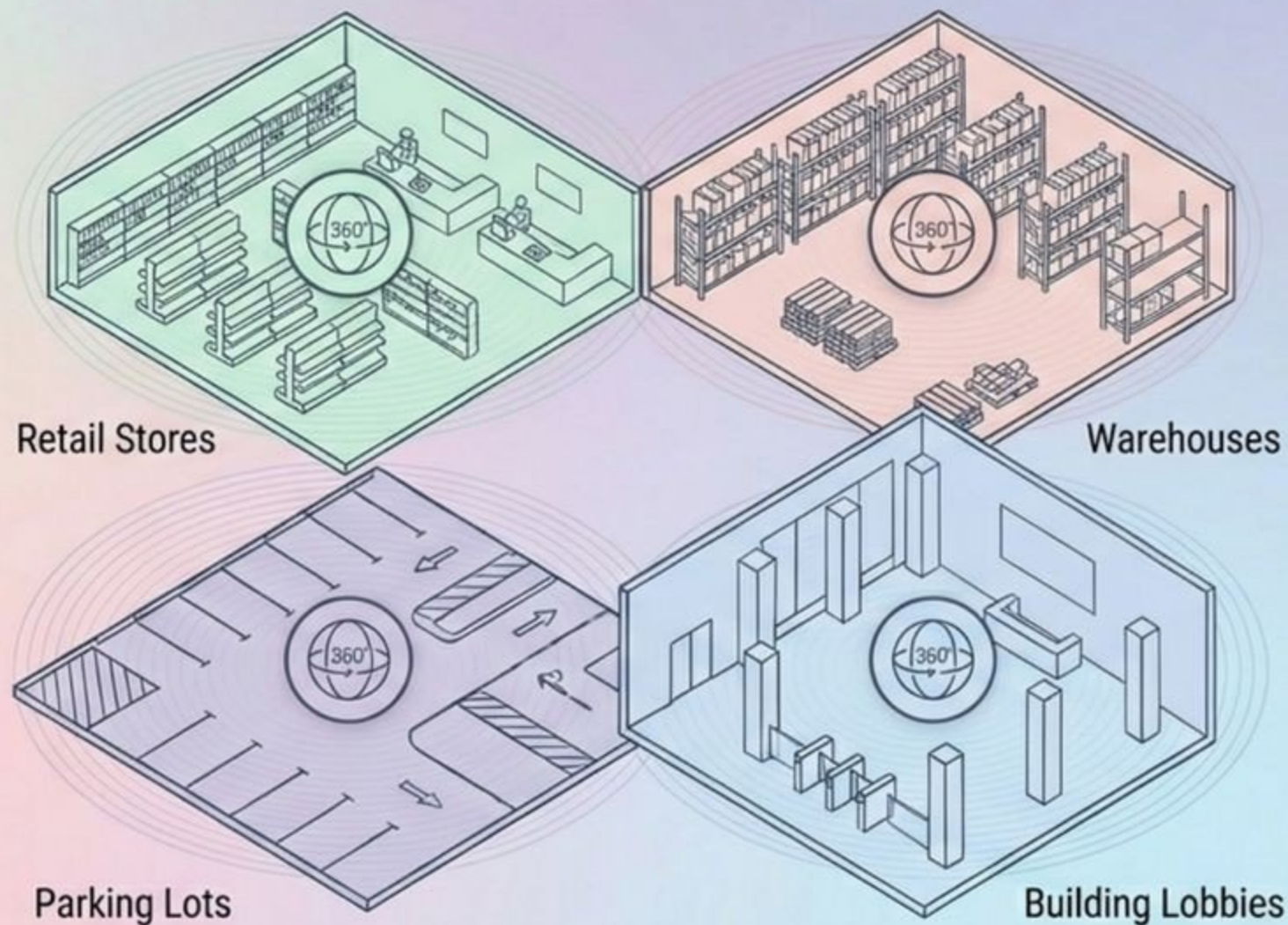


- VMS handles the dewarping process.
- Delivers raw image directly to the VMS.
- Advantage: Lower hardware cost per device.

Applications

Maximizing Coverage in Cost-Driven Markets

- Ideal for scenarios where only a few cameras can be installed, but absolute total coverage is required.
- Delivers solid, seamless overview images with zero blind spots.
- Highly suited for cost-driven applications, both indoors and outdoors.



Solutions

Robust Software Ecosystem Integration

Native Ecosystem Support

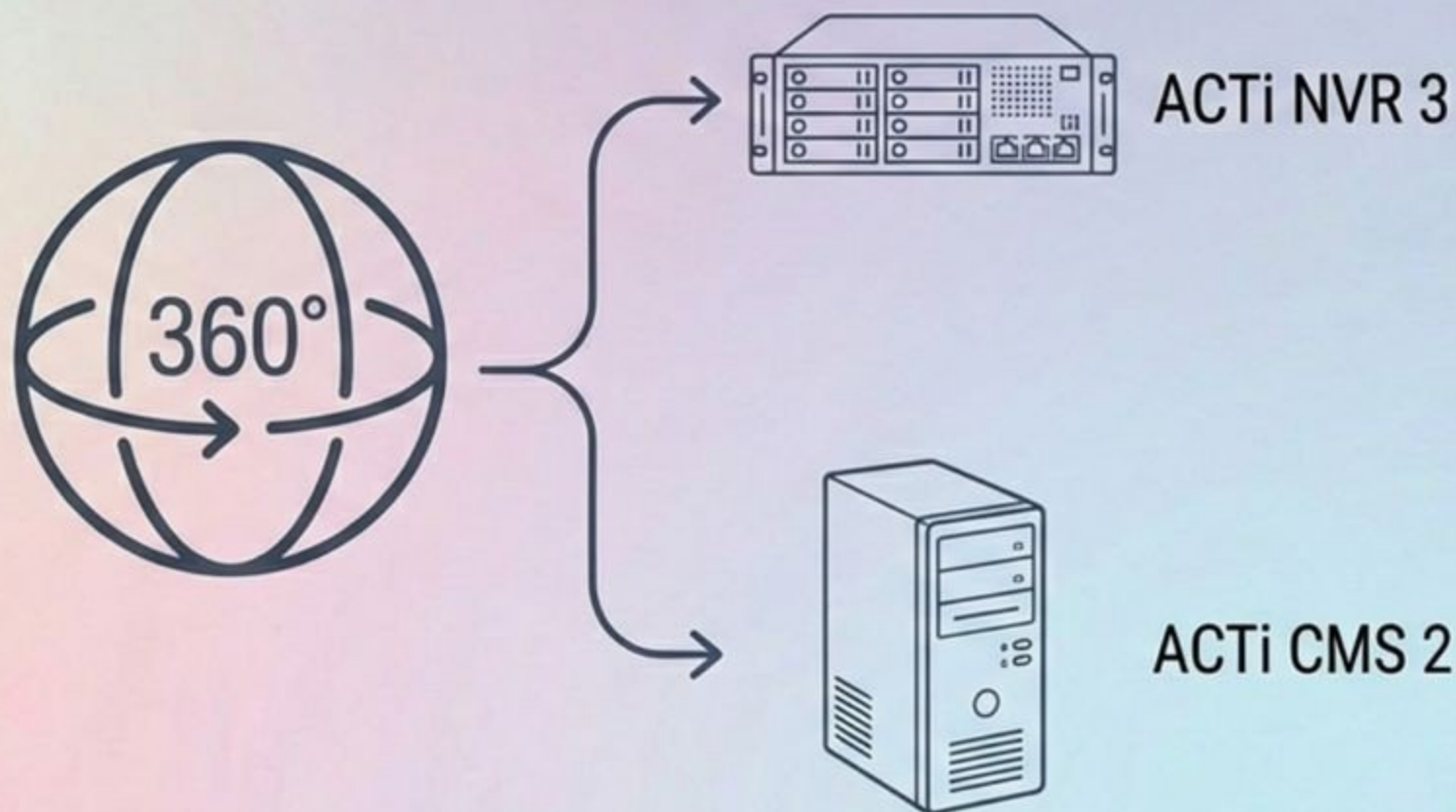
- ACTi VMS fully supports both Hemispheric (pre-processed) and Fisheye (raw) camera streams.

VMS-Side Dewarping

- Advanced dewarping processing is natively supported on ACTi's NVR 3 and CMS 2 architectures.

Grid Customization

- Both NVR 3 and CMS 2 feature fully adjustable grid sizes for customized wide panorama viewing setups.



Product Introduction

Product Matrix: Domes & Cubes



Hemispheric & Fisheye Domes

Outdoor Models

- A711: 12MP, Adaptive IR, Extreme WDR, Analytics
- A713: 5MP, Adaptive IR, Extreme WDR
- B76A: 12MP, Extreme WDR, Analytics

Indoor Models

- B511A: 12MP, Extreme WDR, Analytics
- B57: 6MP, Extreme WDR
- A912: 5MP, Extreme WDR
- E96: 5MP, Basic WDR



Fisheye Cubes

- Indoor Model E16: 10MP, Basic WDR

Product Introduction

Comparison: High-End vs. Mid-Range Performance

Ultra-High-End (12MP)

Built-in Analytics &
Superior Low Light

- A711 (Outdoor, Adaptive IR, Extreme WDR)
- B76A (Outdoor, Extreme WDR)
- B511A (Indoor, Extreme WDR)

High-Performance (10MP)

- E16 Cube (Indoor, Basic WDR)

Mid-Range (5MP/6MP)

Cost-Effective Overviews

- B57 (6MP Indoor, Extreme WDR)
- A713 (5MP Outdoor, Adaptive IR)
- A912 (5MP Indoor, Extreme WDR)
- E96 (5MP Indoor, Basic WDR)

Summary

The ACTi Hemispheric Advantage



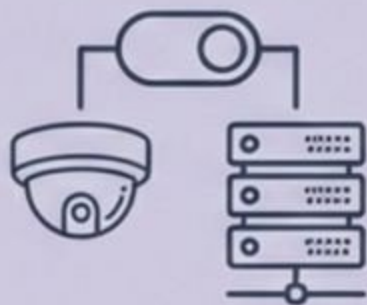
Maximum Coverage

180° or 360° blind-spot-free views from a single specialized lens.



Cost Efficiency

Replaces multiple standard cameras in retail, warehouse, and lobby applications.



Architectural Flexibility

Choose Hemispheric (Edge dewarping) to save server CPU, or Fisheye (VMS dewarping) for lowest device cost.



Seamless Integration

Fully supported natively by ACTi NVR 3 and CMS 2 with adjustable panoramic grid sizes.

Contact Us

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