

Zoom and Auto Focus

Overview



Wide Angle



Narrow Angle

What is Zoom?

The ability to change focal length automatically using a built-in motor.

- Increases focal length to make distant objects recognizable.
- Decreases focal length for situational awareness.

What is Auto Focus?

A dedicated motor that compensates for focal shifts.

- Evaluates the scene and adjusts sharpness automatically whenever the zoom level changes.
- Removes the need for manual lever adjustments.

Zoom Ratio Formula

Maximum Focal Length ÷ Minimum Focal Length = Zoom Ratio
(e.g., 200mm ÷ 10mm = 20x)

Features



Surveillance Grade Zoom

- Designed for active, frequent operation.
- Quick motors, high durability, wide temperature range.
- Found in high-end PTZ models.



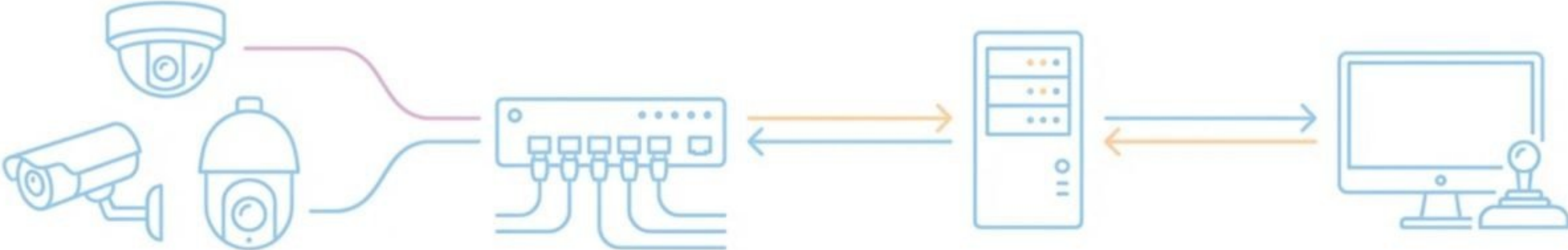
Installation Grade Zoom

- Budget-oriented feature for deployment efficiency.
- Replaces manual vari-focal adjustments (ladders/lifts).
- Used for remote viewing angle adjustment during initial setup.

****Operation Modes:**** Manual (VMS Interface) or Automatic (Event/Preset).

****Preset Integration:**** Zoom and Auto Focus motors work simultaneously for instant clarity.

Architectures



Zoom Cameras

Auto Focus Motors

Ethernet Switch / PoE

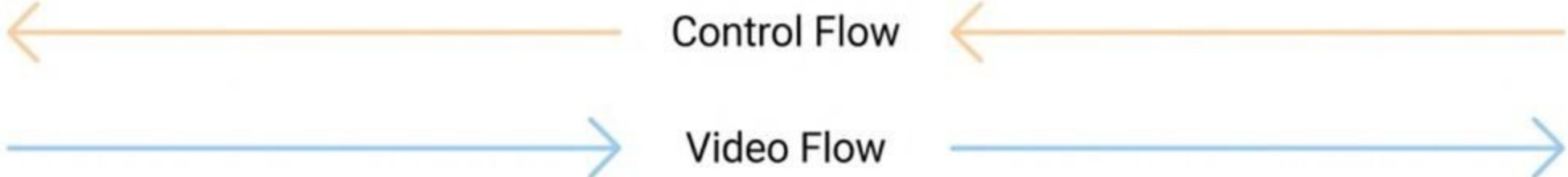
Network Commands

ACTi NVR 3 / VMS

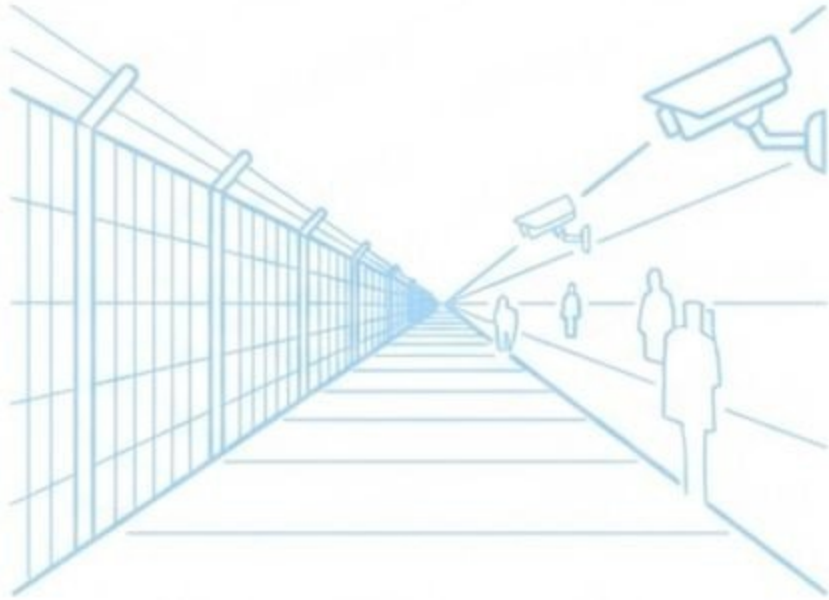
Management Server

Client Workstation

Remote Control via VMS



Applications



Active Surveillance (Security)

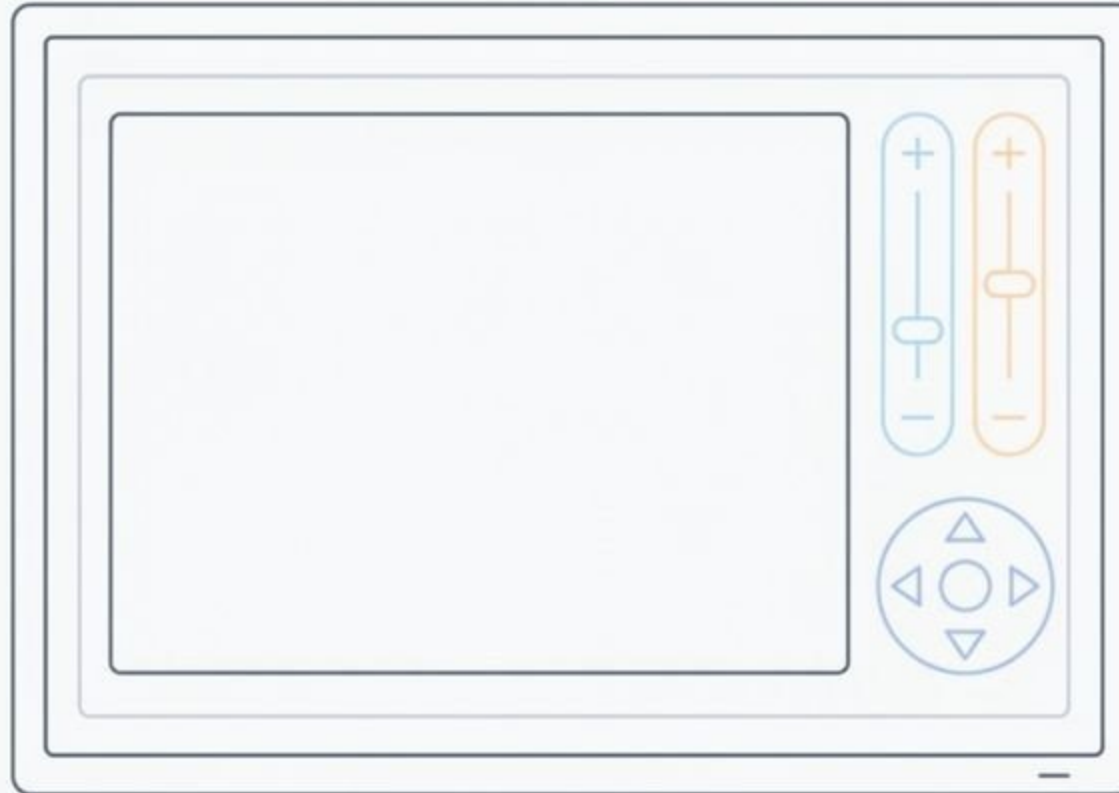
- **Target Scenes:** Large perimeters, long corridors, expansive areas.
- **Benefit:** High-power zoom allows recognition of target objects from far distances.



Installation & Maintenance (Business)

- **Primary Value:** Labor cost saving.
- **Problem:** Traditional adjustments require ladders, lifts, and site visits.
- **Solution:** "Installation Grade" zoom enables remote mouse-click adjustments, eliminating physical service calls.

Solutions



VMS User Interface

Software Integration

Full support within ACTi NVR 3 and VMS products.

Universal compatibility for Bullet, Dome, and PTZ.

Control via on-screen buttons or direct mouse clicks.

Hardware Control

Support for physical joysticks and control panels via VMS client.

Automation

Preset zoom positions configured and managed via VMS interface.

Product Introduction

Product Matrix



- **A961:** 2MP, 60x Zoom
- **Q982-P1/P2:** 4MP, 60x Zoom
- **K9001:** 32MP Multi-Imager, 42x Zoom
- **A955:** 5MP, 40x Zoom
- **Q981:** 4MP, 56x Zoom



- **Z411:** 4MP, 22x Zoom
- **Z416:** 5MP, 12x Zoom
- **A-Series:** 4MP-8MP, 4.3x - 5x Zoom (Installation Grade)



- **A-Series Domes:** 6MP-8MP, 4.3x - 5x Zoom
- **Z-Series Domes:** 4MP-8MP, 4.3x - 4.4x Zoom



- **B26:** 3MP Zoom Box, 36x Zoom
- **A972:** 4MP Thermal PTZ, 32x Zoom

Product Introduction

Comparison



High-Power Zoom



Standard Zoom

Optical Zoom: 10x to 60x

Optical Zoom: 3x to 22x

Resolution: 2MP to 32MP

Resolution: 2MP to 10MP

Best For: Active tracking, long-distance ID, perimeter security.

Best For: Remote setup, fixed surveillance, labor saving.

Shared Technologies: Extreme WDR, Low Light Sensitivity, Built-in Analytics.

Summary



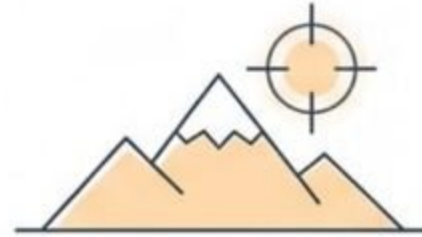
Precision Optics

Combined Zoom and Auto Focus motors ensure instant clarity.



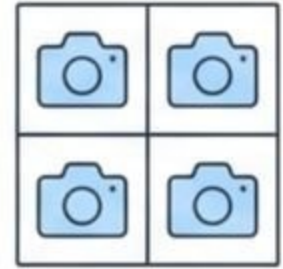
Cost Efficiency

Installation Grade zoom reduces labor costs by replacing site visits with VMS clicks.



Performance

Surveillance Grade zoom (up to 60x) enables recognition across large perimeters.



Comprehensive Lineup

From 2MP to 32MP, and 3x to 60x zoom ratios across all form factors.

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