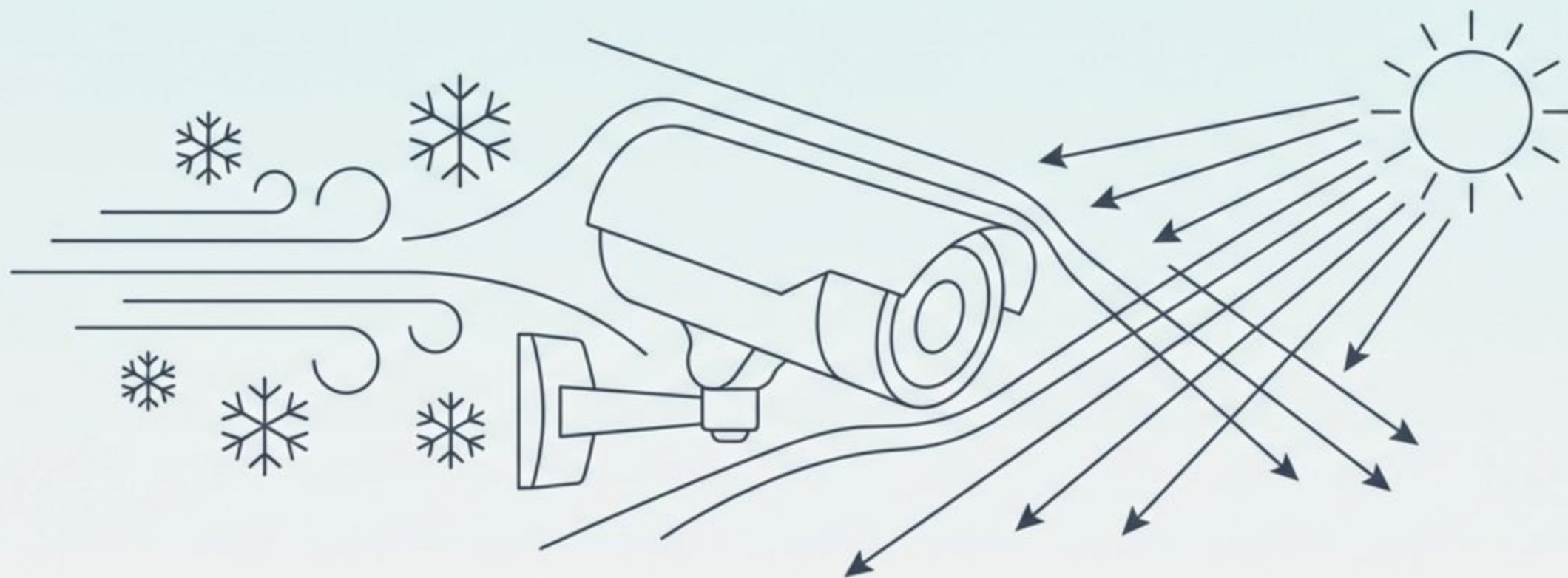


Extended Temperature Cameras

Extreme Temperature Security Cameras for Harsh Environments



Overview

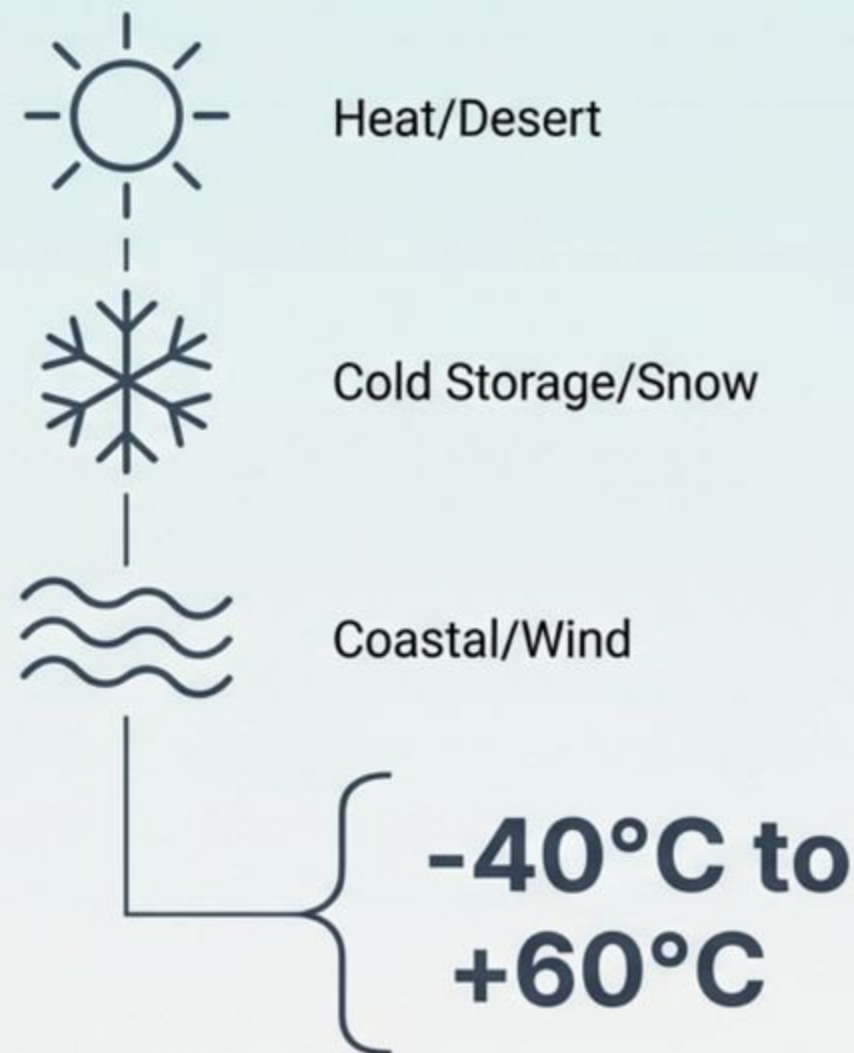
The Challenge: Climate critically affects surveillance performance. Zones with heat waves, snow, sand, or salt spray require specific engineering for durability.

The Solution: ACTi delivers an Extreme Temperature Security Camera portfolio designed for deserts, cold storage, coastal wind, and high-altitude sites.

The Promise: Ensuring stable imaging year-round with an operating range of -40°C to $+60^{\circ}\text{C}$.

The Scope: Over 30 models available including bullets, domes, PTZ, and multi-imagers.

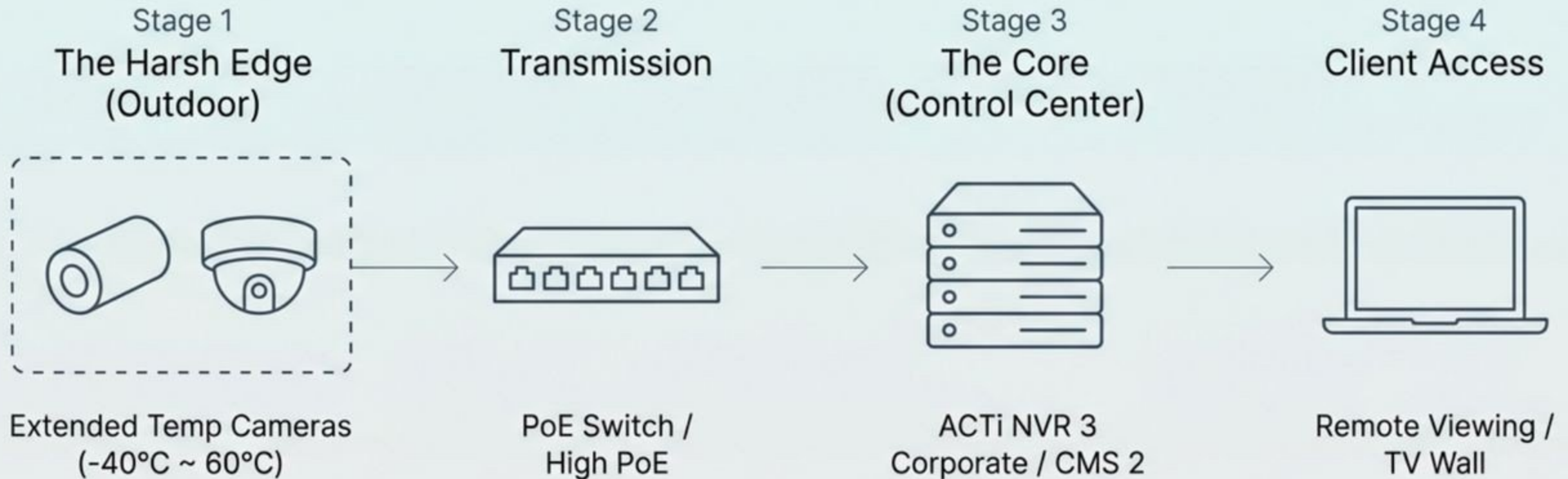
Deployment: Flexible mounting supports gateways, perimeters, and rooftops while minimizing maintenance in remote locations.



Features

- **Lowest operating temperature -40°C or less**
- **Highest operating temperature +60°C or more**
- Built-in **Dehumidifier**
- Humidity protection up to **IP68**
- Resolution up to **20MP**
- Optical Zoom up to **40x**
- IR Distance up to 250 meters
- Frame rate up to 120fps (under 2MP mode)
- Built-in Analytics with people and vehicle detection, classification, and recognition
- High resolution Anti-Corrosion and Anti-Explosion models available
- Wide range of compliances (NDAA, TAICS and more)

Architectures



Applications



Industrial & Utility

Context: High heat, dust, and risk of explosion.

Use Cases:

- Factories (Process Control)
- Oil & Gas (Anti-explosion requirements)
- Power Plants
- Data Centers



Transportation

Context: Vibration, wind, and rapid weather changes.

Use Cases:

- Railways & Train Stations
- Airports
- Seaports (Salt spray resistance)
- Traffic Monitoring
- Mobile Vehicle Surveillance



Extreme Commercial

Context: Temperature regulation requirements.

Use Cases:

- Cold Storage Logistics (Low temp)
- Desert Resorts (High heat)
- Coastal Hotels
- Stadiums

Solutions

Centralized Management

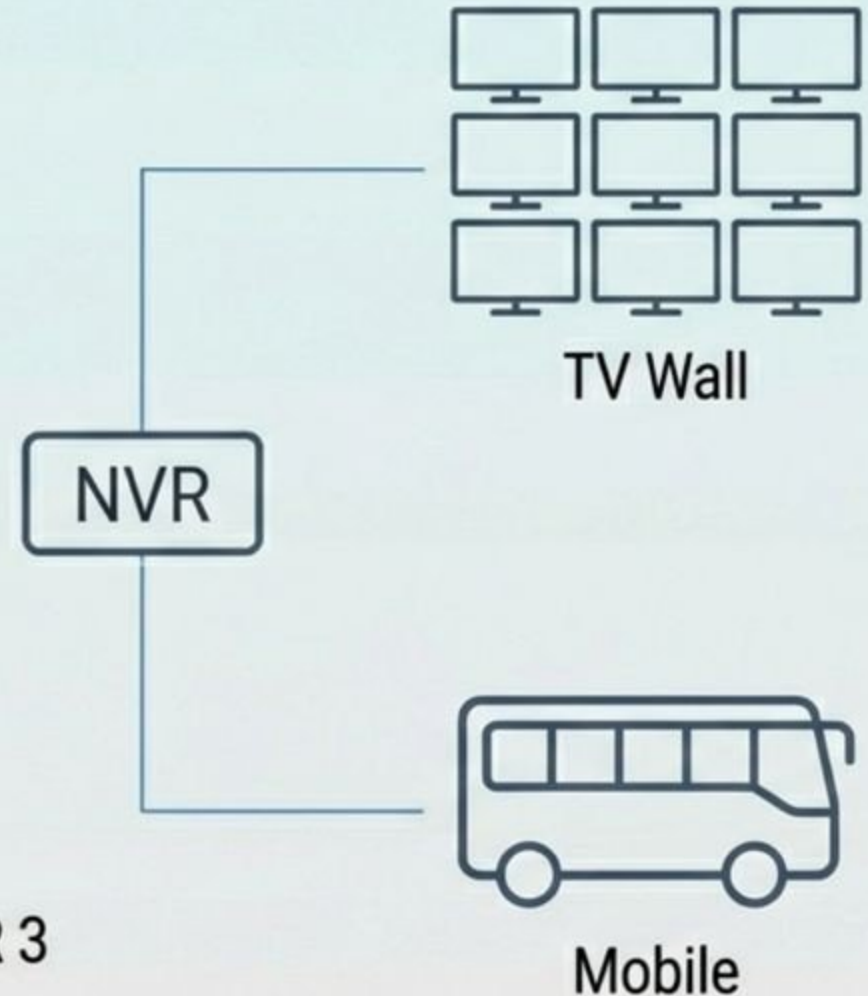
Fully compatible with ACTi NVR 3 and CMS 2 for enterprise-scale management.

Intelligent Search

Deep Learning integration allows for NVR 3 Metadata Search (People/Vehicle detection) directly from camera data.

Specialized Integrations

- TV Wall: Support for large-scale monitoring centers.
- Mobile Surveillance: Optimized for moving assets (trains/buses).
- Redundancy: Supports N+1 redundancy architectures via NVR 3 to ensure zero data loss during server maintenance.



Product Introduction

Bullet Series (Fixed, Zoom, & Thermal)



Fixed Bullet		Key Features
Models Z316, Z317, K31, L33	Specs 2MP to 6MP resolution	• Extreme WDR (130-140 dB) • IP68/IK10 ratings • Built-in Microphone
Zoom Bullet		Key Features
Models Z412, A428, Z416, B419	Specs 2MP to 5MP resolution	• Zoom ratios from 4.3x to 22x (Z411) • Built-in Analytics • Long-range IR (up to 250m)
Thermal Bullet		Key Features
Models K371, A371 series	Specs 4MP / 5MP Visual + Thermal options	• Fire detection • Temperature detection • Heat mapping

Product Introduction

Dome Series (Fixed & Zoom)



Fixed Dome		Key Features
Models Z910, L71, K73, A77	Specs 2MP to 6MP resolution	• Extreme WDR (150 dB for A-series) • Built-in Mic • Adaptive IR
Zoom Dome		Key Features
Models Z812, A820, L83	Specs 2MP to 6MP resolution	• 4.3x to 5x Optical Zoom • Auto-focus • Vandal proof (IK10) metal casing

Product Introduction

Turret Series (Fixed, Zoom, & Thermal)



Fixed Turret		Key Features
Models Z510, Z79, Z512	Specs 2MP to 6MP resolution	• Superior WDR • Adaptive IR + White LED (Dual Light) on select models like Z510/Z512
Zoom Turret		Key Features
Models Z81, Z814	Specs 2MP to 4MP resolution	• 4.3x - 4.4x Optical Zoom • Superior Low Light Sensitivity
Thermal Turret		Key Features
Models A570 series	Specs 4MP	• Dual Spectrum (Visual + Thermal) • Audio I/O for 2-way communication

Product Introduction

PTZ & Specialized Positioning Systems



PTZ (Pan-Tilt-Zoom)	Models: Z958, K953, A962 Specs: 2MP to 8MP	Key Features: • High Zoom (16x to 60x) • OIS (Optical Image Stabilization) • Auto Tracking • Extreme WDR
Positioning Systems	Models: Q990, Q992 Specs: 2MP to 8MP	Key Features: • Laser IR (500m+ range) • Integrated Wiper • Endless Pan
Multi-Imager	Model: K9001 Specs: 32MP Total Resolution	Key Features: • 360-degree coverage with 42x Zoom • Single IP address management

Summary

- ✓ **Unmatched Durability:** Verified operation from -40°C to +60°C with built-in dehumidifiers.
- ✓ **Complete Portfolio:** Full range of form factors (Bullet, Dome, Turret, PTZ) to suit any installation requirement.
- ✓ **Intelligent Edge:** Deep learning AI built-in for precise People/Vehicle detection and classification.
- ✓ **Protection:** IP68 Water/Dust resistance and IK10 Vandal Proofing on majority of models.
- ✓ **Compliance:** Comprehensive NDAA compliant options available for government and critical infrastructure projects.

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