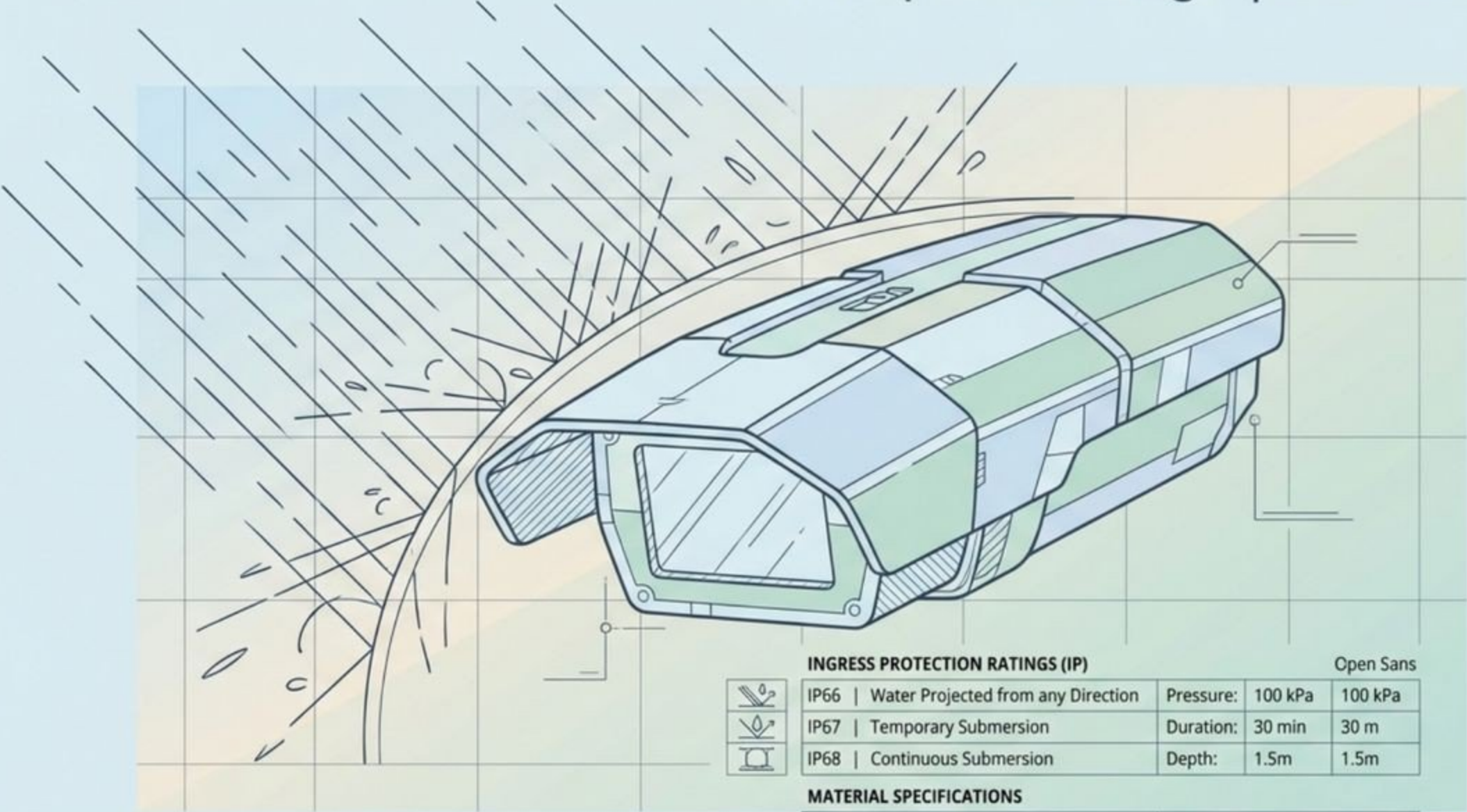


Waterproof Design | ACTi Corporation

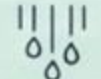


The Critical Role of IP Ratings in IP Surveillance

Digit 1 - Solid Particle Protection

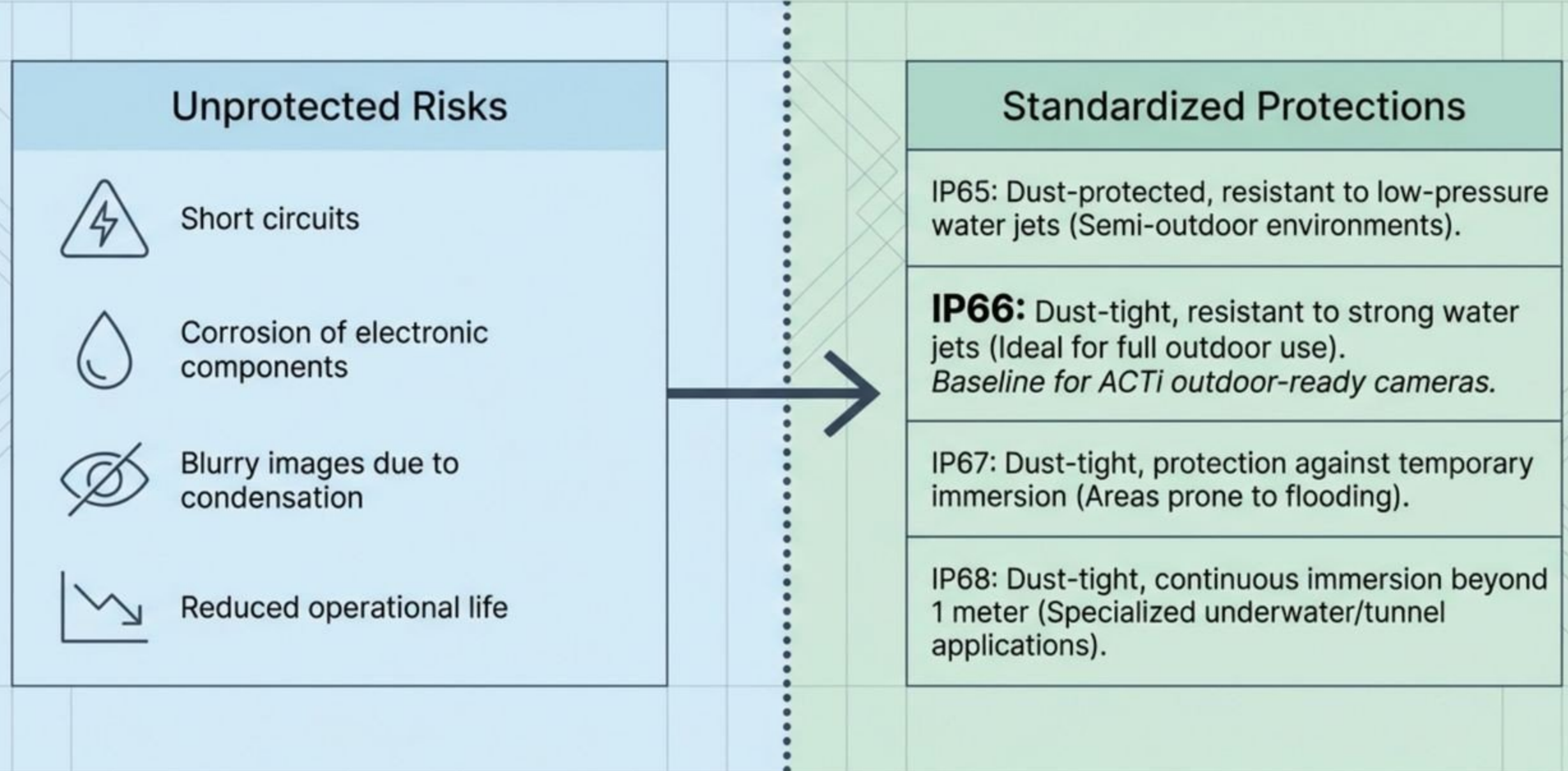
— Roboto Mono (#334155)	6	Dust-Tight
	5	ACTi Outdoor Baseline
	4	
	3	
	2	
	1	
	0	None

Digit 2 - Liquid Ingress Protection

— Roboto Mono (#334155)	9K	High Pressure / Temp
	8	Key Surveillance Ratings
	7	
	6	
	5	
	4	
	3	
	2	
	1	
	0	None

IP ratings provide a standardized way to describe how well an enclosure protects sensitive electronics from the ingress of solid objects and liquids, ensuring reliable operation in harsh outdoor conditions.

Protection Standards and Threat Mitigation



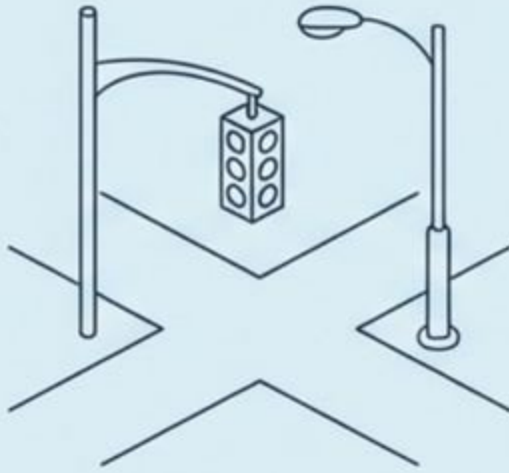
Deploying Waterproof Technology in the Field



Applications

Vertical Markets for Rugged Surveillance

City Surveillance



City Surveillance

Streets, intersections,
public squares.

Industrial Environments



Industrial Environments

Factories, utilities,
chemical plants.

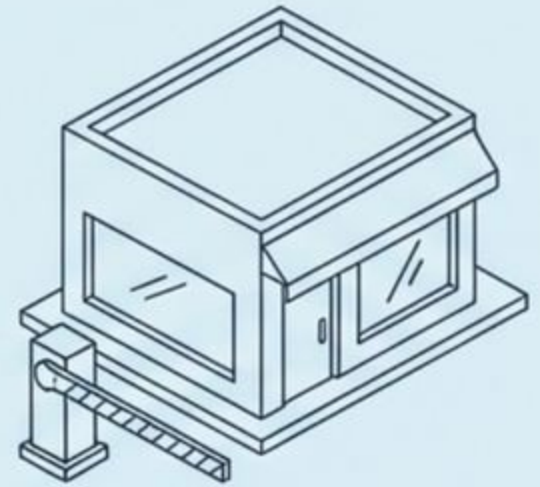
Transportation Hubs



Transportation Hubs

Airports, seaports,
train stations.

Retail & Campus



Retail & Campus

Building perimeters,
parking lots.

Strongly advised to use at least IP66 rated cameras for any outdoor applications.

Solutions

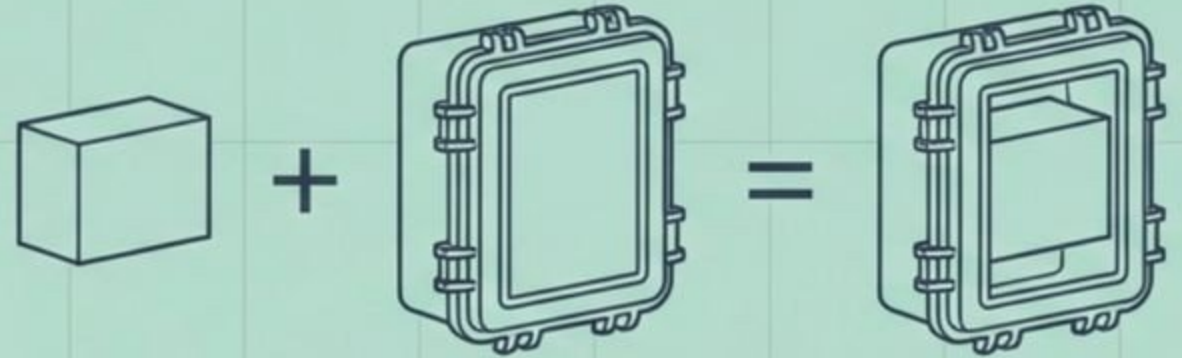
Native Waterproofing vs. Housed Environments

Native Waterproof Solutions



These form factors require no additional accessories. They are at least **IP66 rated** (many IP67/IP68) by their original design. (IP66+ Required).

Housed Solutions



Box cameras are not waterproof by default. Deployment requires **paired outdoor-ready housings** (available in the Related Products section).

Product Introduction

Product Matrix: Box & Fixed Bullet Solutions

Group 1: Box Cameras

Series	Model	Resolution	Key Features	Model	Resolution	Key Features
A-Series	A213	5MP	Extreme WDR/Low Light	A213-5MP	4MP	Extreme WDR/Low Light
A-Series	A29	2MP	Extreme WDR/Low Light	A29-A334	6MP	Extreme WDR/Low Light
E/Q/B-Series	E217	2MP	Extreme WDR	E217-Q22-K	2MP	–
E/Q/B-Series	Q22 / Q22-K1	2MP	Basic WDR	K32 / Q22-K1	2MP	Extreme WDR
E/Q/B-Series	B26	3MP	36x Zoom Box	B322	3MP	WTR U232

Group 2: Fixed Bullet Cameras

Series	Model	Resolution	Key Features
A/E-Series	A313	4MP	–
A/E-Series	A314	6MP	–
A/E-Series	E33A	5MP	–
K/L-Series	K31 / K32 / K33 Series	2-5MP	Extreme WDR
K/L-Series	L31 / L33 Series	2-6MP	Extreme WDR
Z-Series	Z315 to Z332 Series	2-8MP	Superior/Extreme WDR, Adaptive IR
Y-Series (Analog)	Y31 / Y32 / Y35	2-5MP	Extreme WDR, IR LED

Product Introduction

Product Matrix: Zoom & Thermal Bullet Solutions

Group 1: Zoom Bullet Cameras

Series	Model	Resolution	Key Features
A-Series	A220 (2MP, 4.3x), A410 to A432 Series	2-9MP	3.6x-5x, Extreme WDR
B/E/I-Series	B412 / B419 (3-5MP, 10x), E43B (5MP Vari-focal), I42 Series (2MP, 36x)	2-5MP / 5MP / 2MP	10x Zoom / Vari-focal / 36x Zoom
K/L-Series	K41 / K42 (2-4MP, 4.3x), L41 / L43 (2-6MP, 4.3x)	2-4MP / 2-6MP	4.3x Zoom / 4.3x Zoom
Z-Series	Z411 to Z49 Series (2-8MP, 4.3x-22x, Adaptive IR)	2-8MP	4.3x-22x Zoom, Adaptive IR

Group 2: Thermal Bullet Cameras

Series	Model	Resolution	Key Features
A-Series	A371 to A377 Series (4-5MP, Adaptive IR, Superior WDR)	4-5MP	Adaptive IR, Superior WDR
K-Series	K371 / K372 Series (4MP, Superior WDR)	4MP	Superior WDR
VMGB-Series	VMGB-359 to VMGB-371 (4MP, Adaptive IR)	4MP	Adaptive IR

Product Introduction

Product Matrix: Dome Solutions

Group 1: Fixed Domes

Series	Model	Resolution	Key Features
A/E/K-Series	A76, A77, E918 to E936 Series, K71 to K73 Series	4MP, 6MP, 2-3MP, 2-5MP	Extreme WDR
L/Z-Series	L71 / L73, Z714 to Z97 Series	2-6MP, 2-8MP	Extreme/Superior WDR

Group 2: Zoom Domes

Series	Model	Resolution	Key Features
A/E/K/L-Series	A810 to A86 Series, E815 / E816, K81 / K82, L81 / L83	2-8MP, 5-10MP, 2-4MP, 2-6MP	4.3x-5x, 4.3x, 4.3x, -
Z-Series	Z810 to Z86 Series	2-8MP	4.3x-5x, Adaptive IR

Group 3: Hemispheric / Multi-Sensor Domes

Series	Model	Resolution	Key Features
Models	A711, A713, B76A, Q711, Q75, Q84	12MP, 5MP, 12MP, 8MP, 20MP, 20MP	2-Sensor, 4-Sensor 180° 4-Sensor 360°

Product Introduction

Product Matrix: Turret Solutions



Fixed Turrets

Series	Model	Resolution	Key Features
Z-Series	Z510 to Z56 Series (2-8MP, Extreme WDR), Z72 to Z79 Series (2-4MP).	2-8MP	Extreme WDR, Varied
Y-Series (Analog)	Y71 (2MP), Y72 (5MP).	2MP, 5MP	Analog



Zoom Turrets

Series	Model	Resolution	Key Features
Z-Series	Z64 (8MP, 4.3x), Z81 (2MP, 4.4x), Z82 (4MP, 4.4x), Z814 / Z87 (4MP, 4.3x).	2-8MP	4.3x-4.4x Zoom, Adaptive IR



Thermal & Multi-Sensor Turrets

Series	Model	Resolution	Key Features
Thermal	A570 / A571 Series (4MP Outdoor Thermal, Adaptive IR).	4MP	Outdoor Thermal, Adaptive IR
180-Degree	Q550 (8MP, 2-Sensor 180°, Extreme WDR).	8MP	2-Sensor 180°, Extreme WDR

Product Introduction

Product Matrix: PTZ & Special Solutions

Group 1: Outdoor PTZ Cameras

Series	Model	Resolution	Key Features
A-Series	A952 to A967 Series	2-8MP, 22x-60x Optical	Extreme WDR, Thermal (A972/A973)
B/I/K-Series	B911 to B928 Series, I915 / I98 Series, K953 / K954	2-5MP, 10x-36x, 33x-42x	Standard Zoom, Compact
Z-Series	Z952 to Z959 Series	2-8MP, 16x-40x Optical	Extreme WDR, High Zoom

Group 2: PTZ Positioning & Multi-Imager Systems

Series	Model	Resolution	Key Features
Q-Series Positioning	Q981 to Q992 Series	2-8MP, 41x-60x Optical	Extreme Low Light, Positioning
K-Series Multi-Imager	K9001	32MP	Outdoor Multi-Imager PTZ, 42x Optical

Group 3: Specialty Rugged Endpoints

Series	Model	Resolution	Key Features
Q-Series Specialty	Q170, Q450, Q950, Q970	4MP, 8MP, 6MP, 2MP	Thermal Cube, 2-Sensor Bullet, Door Station, Intercom

Product Introduction

Comparison of Form Factors

Form Factor	Waterproof Status	Max Resolution	Primary Strength
 Rectangular Box	Requires Housing	5MP	Extreme Low Light / Modular
 Long Cylinder (Bullet)	Native (IP66+)	9MP	Long-range perimeter / Thermal
 Hemisphere (Dome)	Native (IP66+)	12MP	Vandal-resistant / Low profile
 Eyeball (Turret)	Native (IP66+)	8MP	Reduced IR reflection / Easy adjust
 Sphere with Base (PTZ)	Native (IP66+)	8MP	Active tracking / Up to 60x Zoom
 360-Circular (Multi-imager)	Native (IP66+)	Up to 32MP	180/360-degree situational awareness

Summary

Guaranteeing Operational Reliability



-  Waterproofness is a guarantee, not just a specification.
-  Properly matching the IPxx rating to the environmental hazard is critical for deployment success.
-  Deploying appropriately rated waterproof IP surveillance drastically reduces downtime, minimizes maintenance costs, and ensures continuous, reliable protection.

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