SHAPING INTELLIGENCE

MEET AIOT.
TOUCH THE FUTURE.

Hikvision AloT Technologies and Ecosystems

AloT Technology Implementation Difficulties

AloT products are getting diversified.

Scenarios are getting fragmented.

Applications are getting richer.



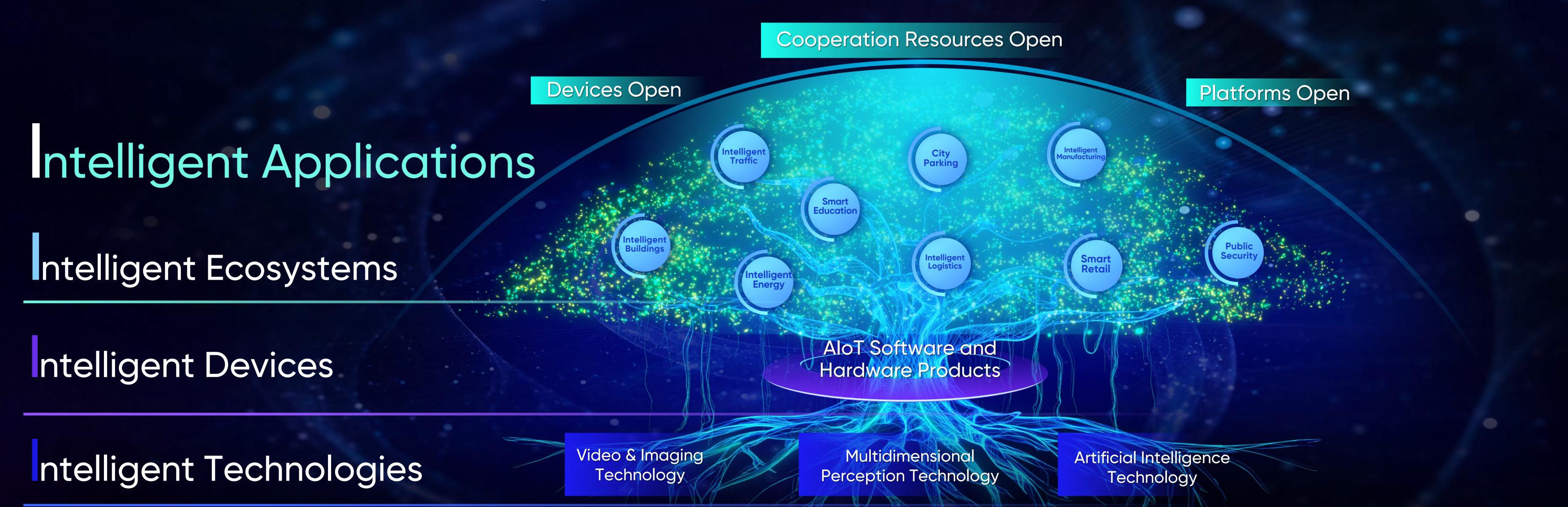




AloT 4I Strategy Helps Ecosystem Partners Boost Customer Value



AloT 41 Strategy Helps Ecosystem Partners Boost Customer Value

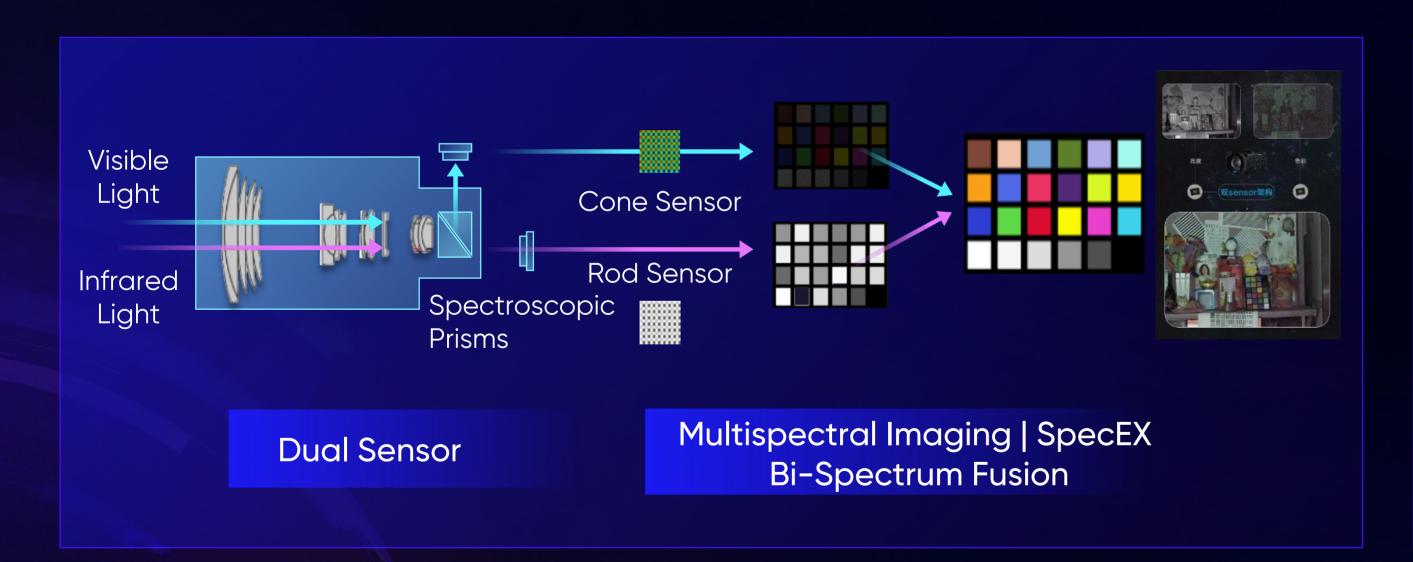


Video and Imaging Technology

Optimize image effects continuously to pursue the ultimate 24/7 visual experience

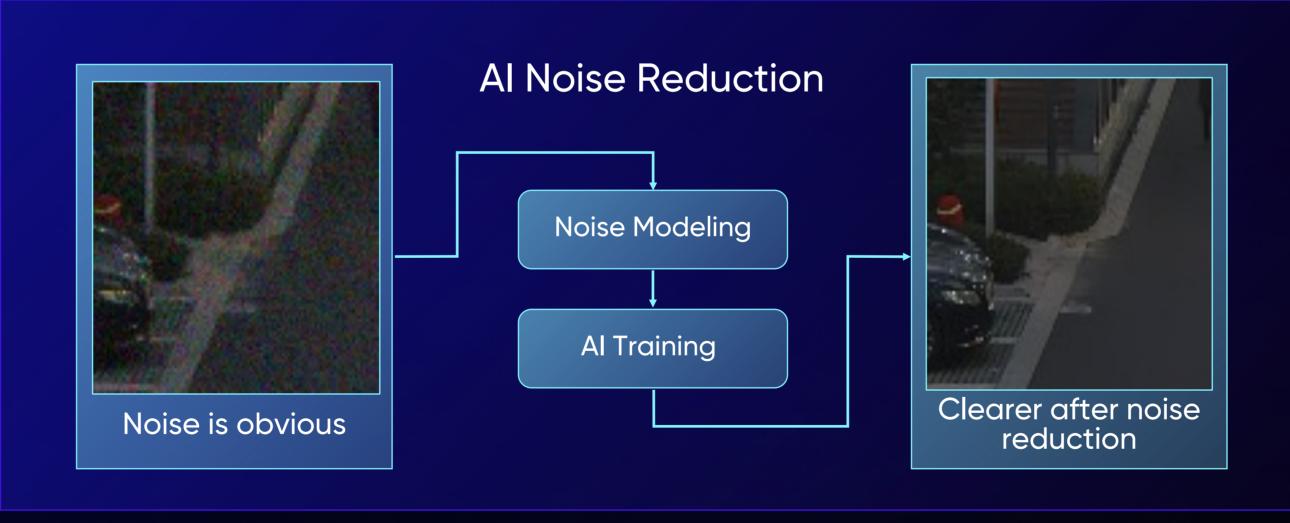
Bi-Spectrum Image Fusion

Combining IR and visible light imaging to reproduce vivid colors



Al-ISP Image Processing Engine

Al noise reduction to optimize nighttime image quality based on deep learning algorithms



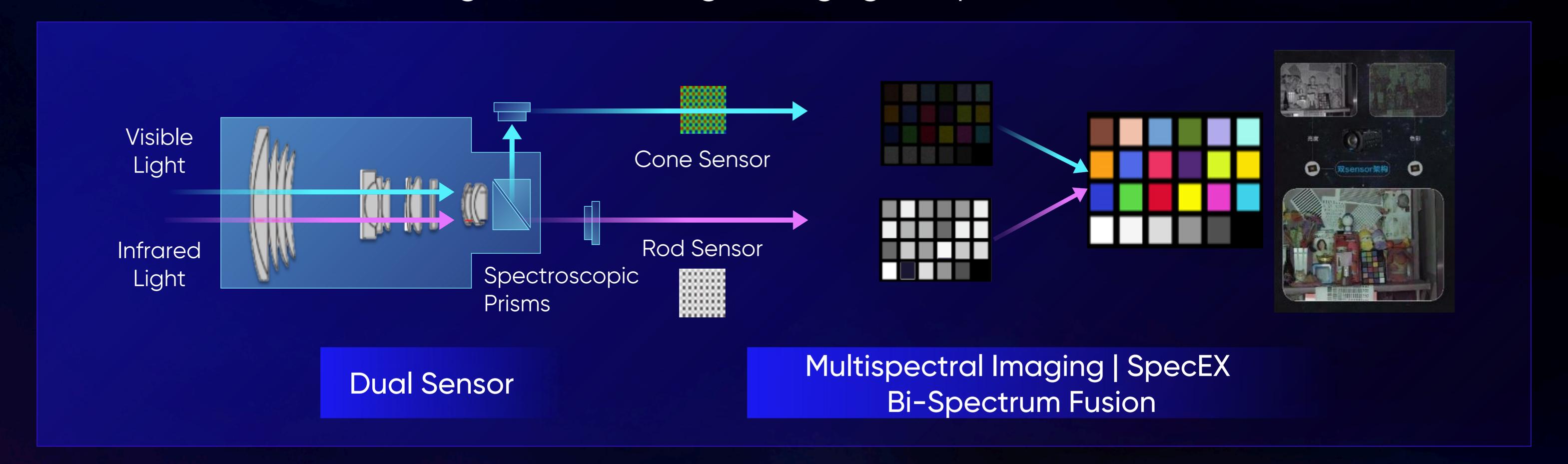
Patented Hybrid Supplemental Lighting

More environmental-friendly supplemental lighting to minimize white light pollution



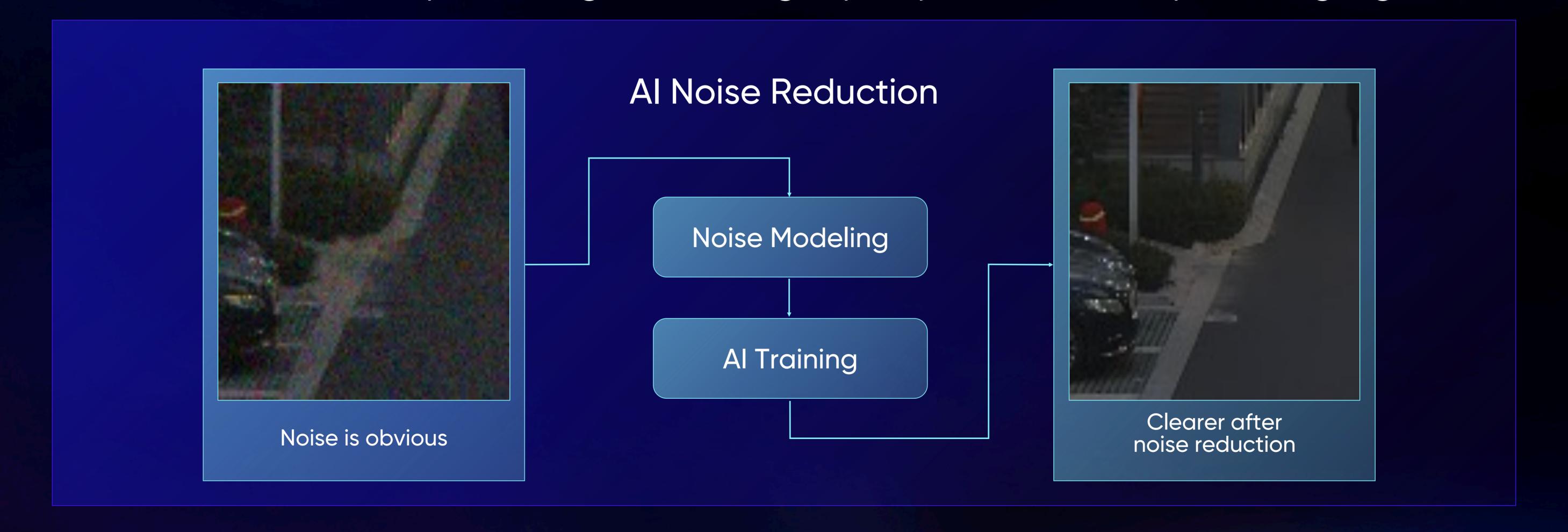
Bi-Spectrum Image Fusion

Combining IR and visible light imaging to reproduce vivid colors



AI-ISP Image Processing Engine

Al noise reduction to optimize nighttime image quality based on deep learning algorithms



Patented Hybrid Supplemental Lighting

More environmental-friendly supplemental lighting to minimize white light pollution

Low-Light Imaging with Gentle Lighting



Conventional Supplemental Lighting

90 lux

Gentle Supplemental Lighting

0.13 lux

Adaptive Adjustment of Brightness

Dynamic adjustment of supplemental lighting based on the proximity of the target



Strong Light

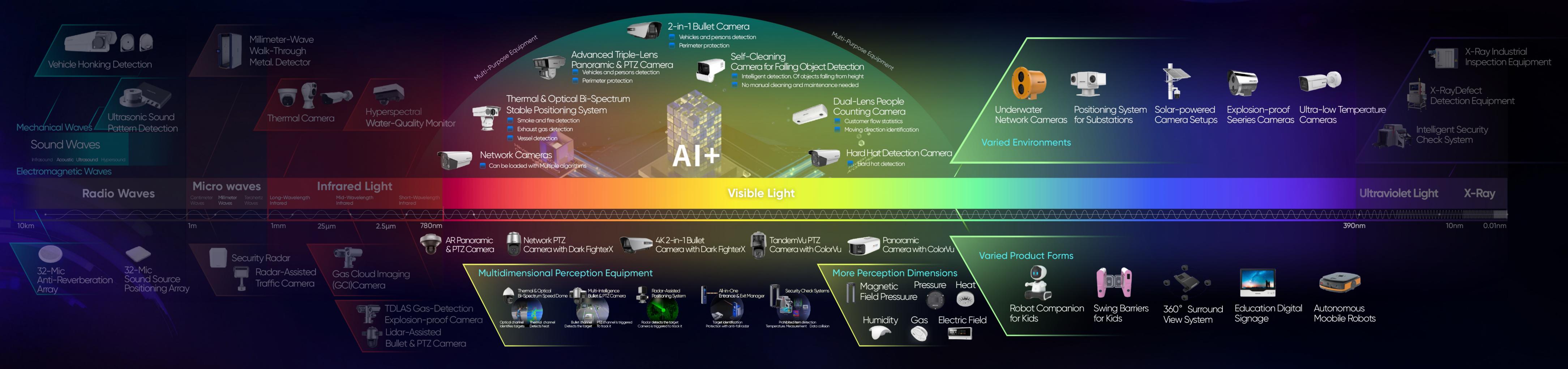
Weak Light

Multidimensional Perception Technology

Perceive the physical world in full spectrum, expanding awareness from various dimensions in various scenarios

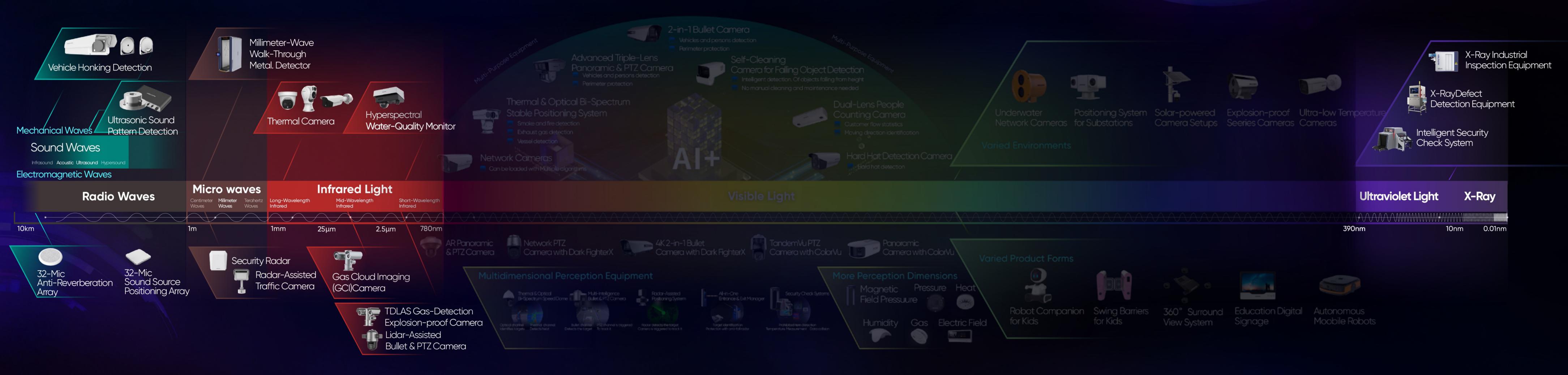
Multidimensional Perception Technology

Perceive the physical world in full spectrum, expanding awareness from various dimensions in various scenarios



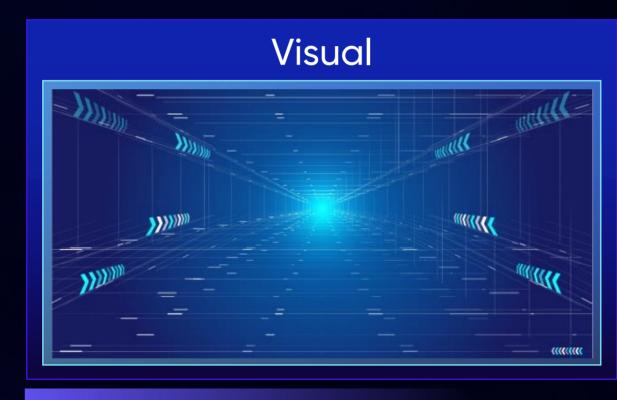
Multidimensional Perception Technology

Perceive the physical world in full spectrum, expanding awareness from various dimensions in various scenarios



Artificial Intelligence Technology

From visual to acoustic and textual, from unimodal to multimodal, tapping into the power of valuable IoT data



Widespread field applications dedicated to specific user scenarios



Overall capability improvement from sound capture to analysis



Deeper understanding from text OCR to natural-scene OCR

Artificial Intelligence Technology

From visual to acoustic and textual, from unimodal to multimodal, tapping into the power of valuable IoT data





Fusing various intelligent perception technologies to achieve all-weather, multi-scenario applications









An intelligent perimeter protection example: Using vibrating optical fiber or radar for preliminary alarms and linking a PTZ or thermal camera to identify the objects. The multimodal application significantly reduces false alarms.

Visual



Widespread field applications dedicated to specific user scenarios

Acoustic



Overall capability improvement from sound capture to analysis

Textual

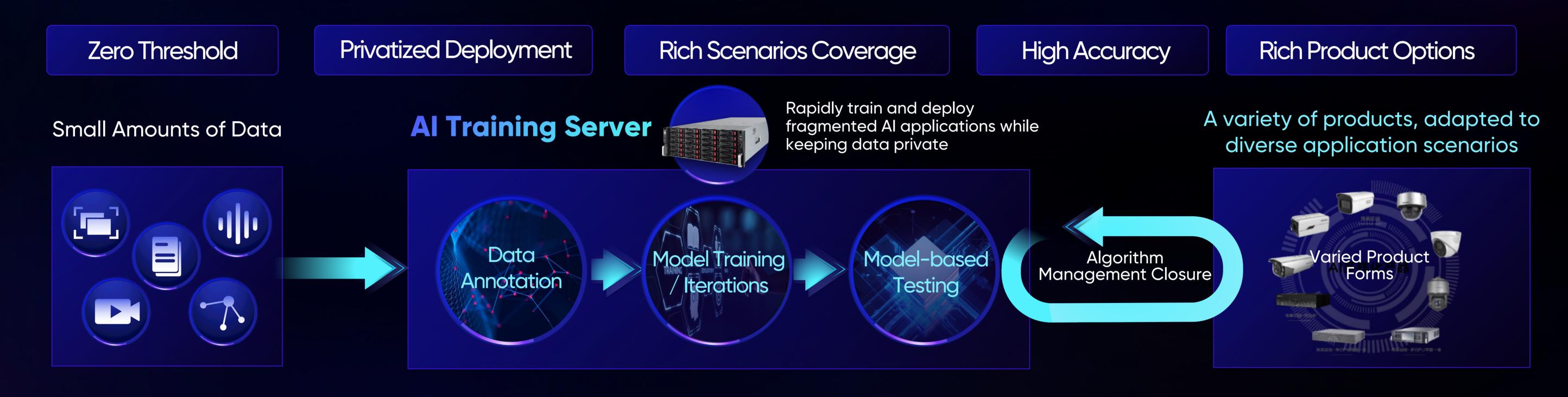


Deeper understanding from text OCR to natural-scene OCR

Artificial Intelligence Technology Implementation

Al Open Platform helps partners quickly generate algorithms for fragmented scenario applications

Al Open Platform



50,000+ Number of models 4000+
Implemented Projects

100+
Application Industries

8000+
Served Companies

Continuously Enriching AloT Products, Enabling Partners to Maximize the AloT Value for the Vertical Industries

Display Transmission Routers Intelligent and Control Transmission Routers Fire Safety

Ecosystem SaaS More secure production Partners Providing Capabilities to Create Vertical Ecosystems and Empower All Walks of Life Integrated Cloud & Edge Deployment **AIoT Convergence Scenario-based Applications** Vehicle Management (Security Services) (Evidence Management) (Third-party Services) Security Applications **Access Control** AloT Devices Converged Scenario-dedicated Applications PaaS Proactive O&M Hikvision Vehicle Mgmt. System Third-party Devices Management Module Access Control System Alarm System AloT Device Access and Unified Management Nearly 30,000 AloT hardware product models from Hikvision

laaS



. . .

Third-party

Systems

BMS

MES

CRM

Payroll

HVAC

Empowering Partners and Accelerating Development

based on the 1+1+1 ecosystem and to achieve win-win and boost innovation

Devices Open

Help ecosystem partners integrate quickly through our rich AloT product lines and open capabilities

OTAP

Open IoT architecture protocols, one set of framework covering all Hikvision products and mainstream IoT protocols

ISAPI

Integration Gateway

Hikvision Open Embedded Platform (HEOP)

Platforms Open

Unified management based on AloT devices, providing converged applications and industry capabilities, effectively reducing the development cost of upper layer applications

HikCentral OpenAPI

Cloud OpenAPI

Empowering Partners and Accelerating Development

based on the 1+1+1 ecosystem and to achieve win-win and boost innovation







Service Provider





Solution Developer



•••••

Cooperation Resources Open

Global Technology Partner Program

We share technologies, channels and other resources deeply with ecosystem partners based on the TPP program, together for win-win cooperation.



Integration Development



Channel Sharing



Co-Marketing
Events & Tradeshows



Integration Support



Training Service

Devices Open

Help ecosystem partners integrate quickly through our rich AloT product lines and open capabilities

OTAP

Open IoT architecture protocols, one set of framework covering all Hikvision products and mainstream IoT protocols

ISAPI

Integration Gateway

Hikvision Open Embedded Platform (HEOP)

Platforms Open

Unified management based on AloT devices, providing converged applications and industry capabilities, effectively reducing the development cost of upper layer applications

HikCentral OpenAPI

Cloud OpenAPI

Cybersecurity & Privacy

Cybersecurity and privacy are the foundation for Hikvision, motivating us to keep practicing "Security by Design" and build a network of trust.





ISO 27001 is an international standard published jointly by ISO and ICE about how to manage information security.



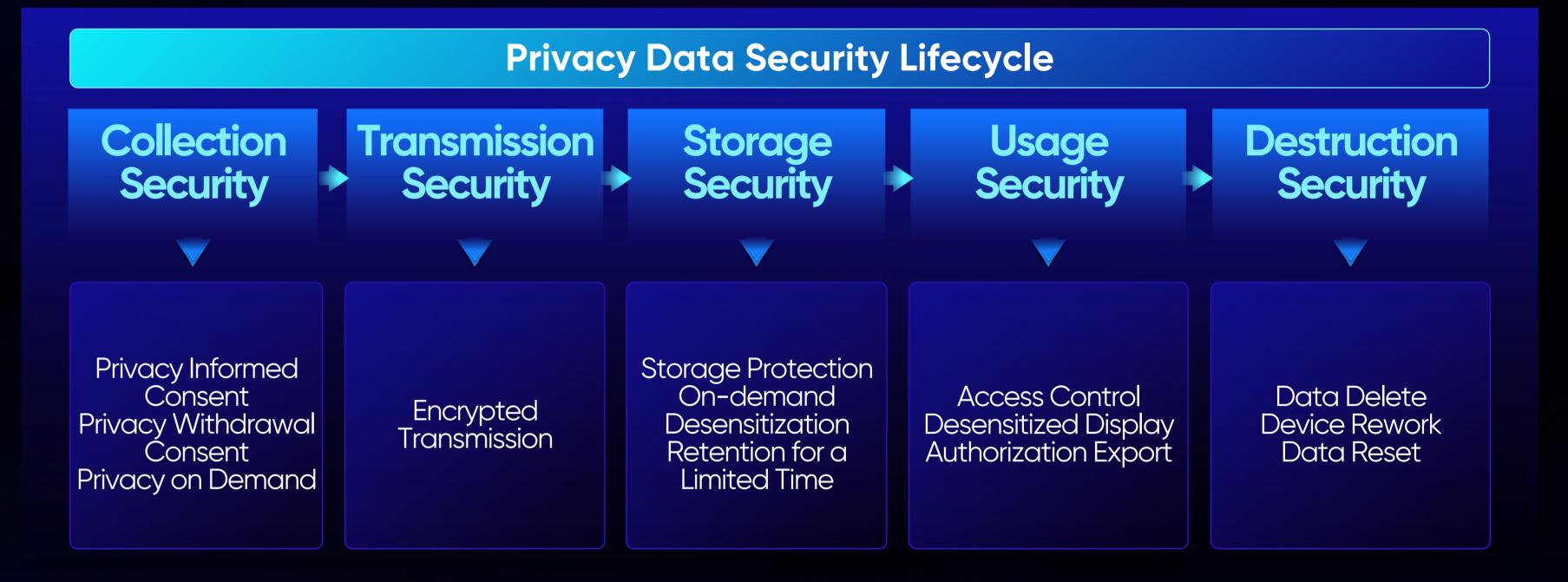
ISO 28000 is a specification published by ISO for security management systems for the supply chains.



ISO/IEC 27701:
2019 is by far the
most authoritative
privacy standard
worldwide.



The CSA Security,
Trust & Assurance
Registry (STAR) is
an independent
third-party cloud
service provider.





FIPS are a set of publicly announced standards by NIST which establish requirements for ensuring computer security and interoperability.



CC EAL 3 is an IT product or system certificate assigned by Common Criteria which represents the highest level of safety certification granted to products in the video security category.



The Common
Vulnerabilities and
Exposures (CVE)
system provides a
reference-method for
publicly known
information-security
vulnerabilities and
exposures.

Tech for a Better World

We are dedicated to fulfilling our global responsibilities to create lasting value for customers, improve social well-being, and work together with partners for a better world.

Technology for Goodwill



Green and Low-Carbon Development



Integrity and Compliance

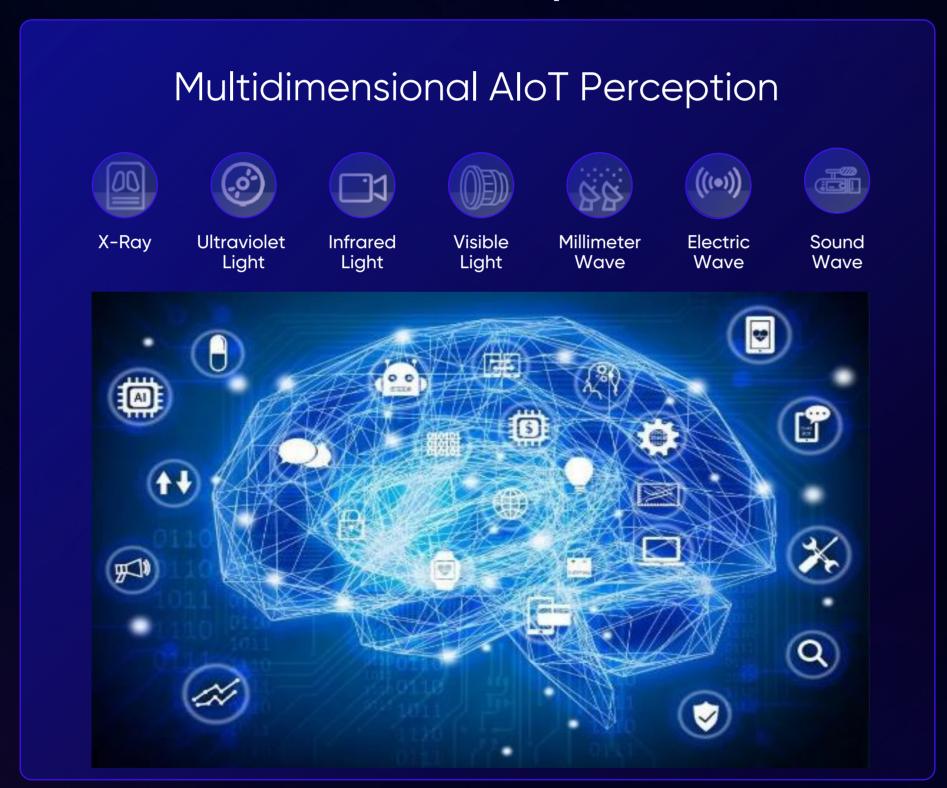


Harmonious Co-existence



Meet AloT. Touch the Future.

Enrich AloT Capabilities



Multidimensional perception through intelligent IoT

Win as an Ecosystem



Open up capabilities and win together as an ecosystem

Maximize Customer Value

Empower the Digital Transformation of Diverse Vertical Industries







More efficient logistics More secure societies Much smoother traffic







Smarter retail services



More livable environments

Boost customer value and create a brighter future for all