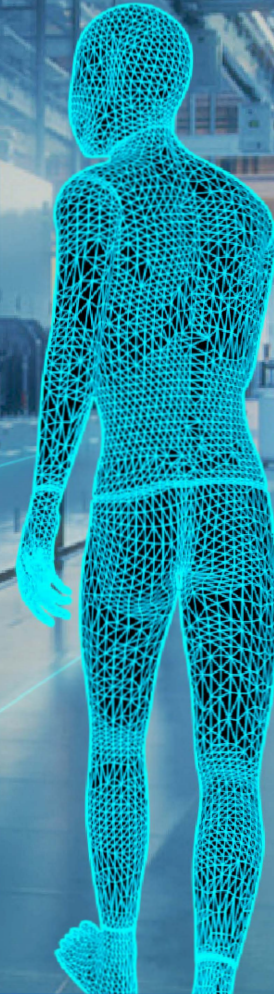# Cupola360

INDUSTRY360 SOLUTION

Bringing Your Factory Into the Future

47%

88%

35%

Creating Immersive and Interactive
Experiences in Real-Time

With the optimized combination of Cupola360 and Altek processors
as well as Cupola360™ Software Kit, ASPEED's total solution enables
customers to realize smart AV applications easily and efficiently.

Cupola360: AI-Friendly 360° Camera Solution

i360 Camera

Solution	Imaging	Stitching	Digital Pan-Tilt-Zoom

- First-person perspective
- Real-time in-chip stitching technology
- 5.7K / 4K video stitching
- Zero distortion, AI-friendly
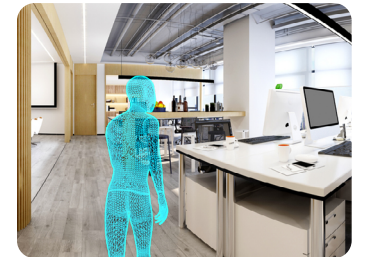- Perfect for smart 360 applications with immersive experiences
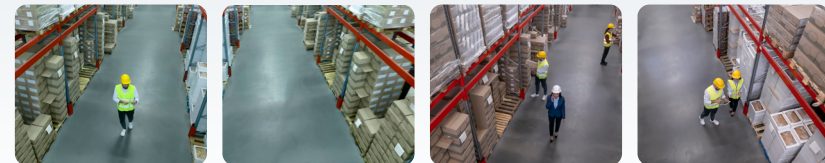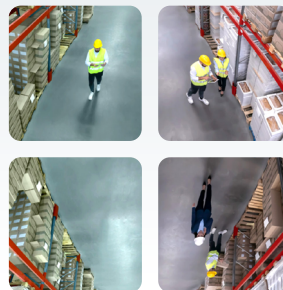

AI-Friendly

Traditional Fisheye CCTV

- Image distortion caused by optical limitation
- Non-linear image distortion, challenging for AI applications
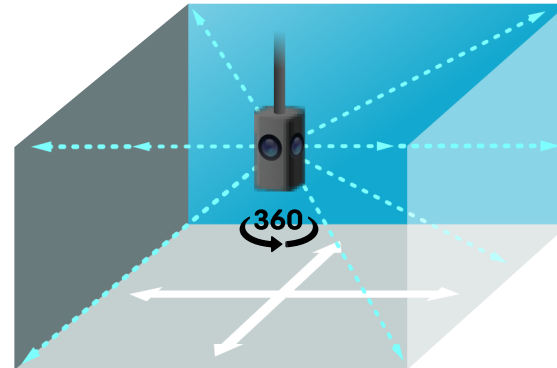

Top View & Split Screen

Realistic Spatial Experience

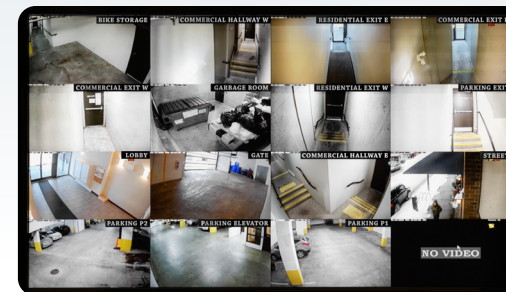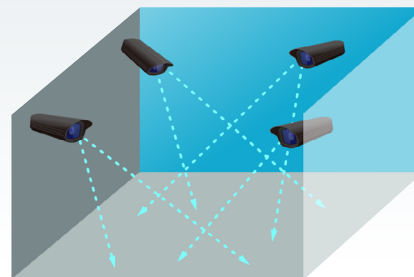## i360 Camera Installation

- Spherical 360° coverage with spatial continuity
- Superior immersive spatial experience without blind spots

360

Traditional Camera Installation

- Discrete camera viewpoints without spatial continuity
- Poor spatial experience with blind spots

Industry360: Revolutionary Approach to Audit and Patrol

Cost-effective and highly efficient

- Remote 360° audit and patrol powered by Cupola360

- Monitor real-time status

- Predict and identify events with AI

- Conclude follow-up actions rapidly and remotely

Traditional Audit and Patrol

Costly and inefficient

- Must travel to be on-site to receive status
- On-site visits require a lot of preparation beforehand

- Must travel back and forth to identify issues and solutions
- Identify follow-up actions only after visits

How Industry360 Benefits Your Factory

Easy-to-Use Cupola360+ Software Kit

- **To increase** ⊕
  - **Factory production KPI**
    Managing with real-time 360-degree video inputs
  - **Operation efficiency**
    Integration with production equipment
  - **Patrolling efficiency**
    Saving time and efforts
  - **Production traceability**
    Accessing multi-channel status updates

- **To decrease** ⊖
  - **Management cost**
    Autonomous patrolling to reduce human resource requirement
  - **Operation risk**
    ESG risk prevention
  - **Roll-back inspection efforts**
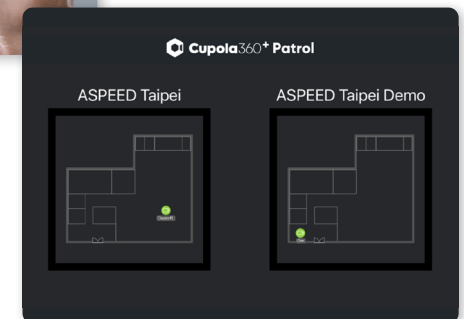   Zero blind-spot video recording

	i360 Camera	Traditional CCTV
FOV Coverage	**Spherical 360 degrees**	Up to 150 degrees
Resolution	**5.7K / 4K**	4K / 2K
Number of Lenses	**4**	1
360-Degree FOV Requirement	**One Camera**	Multiple Cameras
Installation Cost of 360-Degree FOV	**Low**	High
Power consumption	**Low**	High
Maintenance effort	**Low**	High
Image Stitching	**In-Chip**	None / Software / External Hardware
Zero Distortion	✔	-
Ingress Protection	**IP66**	None or IP67
Multi-Stream Output	**Up to 5**	-
Dynamic ROI Switch	✔	-
Support Cupola360⁺ Patrol App	✔	-
Real-time 360 Autonomous Patrolling	✔	-
360 Image Platform for Service Customization (AI and Event API)	✔	-

- **GUI-based & web-based solution**
  - Drag-and-drop deployment
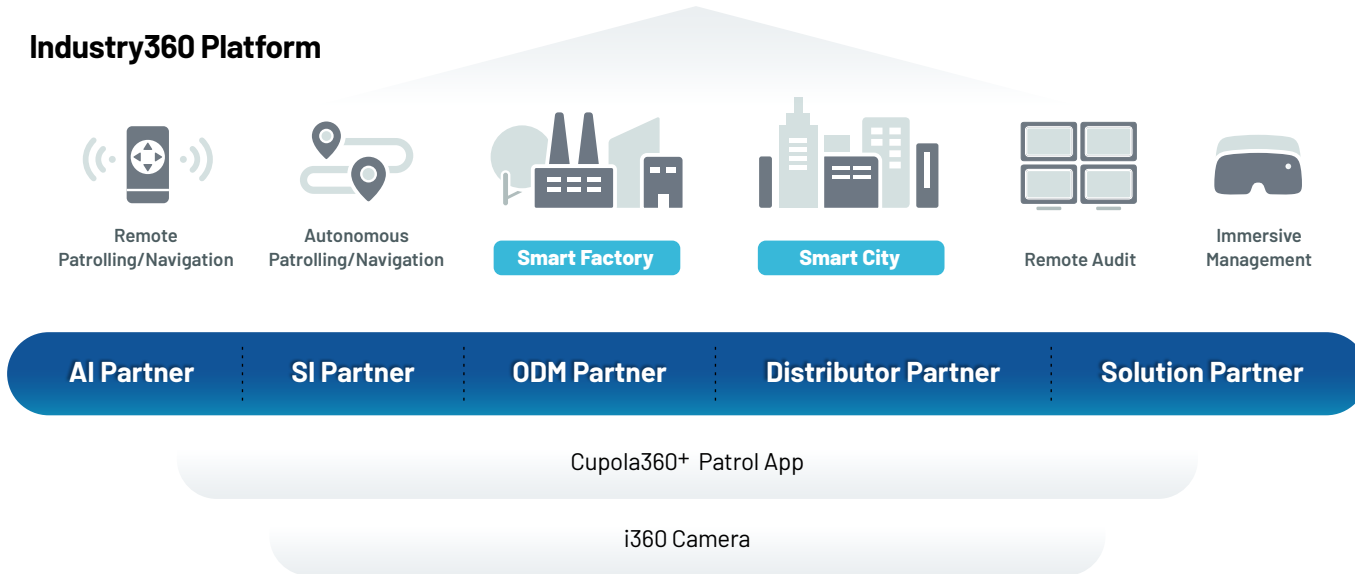 - Camera configuration
  - Real-time patrolling with 360° live feeds

Cupola360+ Camera Deployment Tool

Cupola360+ Patrol App

Industry360 Ecosystem

Industry360 Platform

Remote Patrolling/Navigation	Autonomous Patrolling/Navigation	**Smart Factory**	**Smart City**	Remote Audit	Immersive Management

AI Partner	SI Partner	ODM Partner	Distributor Partner	Solution Partner

Cupola360⁺ Patrol App

i360 Camera

i360 Camera Spec

i360 Camera Spec	
Dimensions	102 x 115 x 62mm
Weight and Color	662.4g / Silver
Power	RJ45, POE Class 3 802.3at Type2
Communication & Control	Compatible with ONVIF profile S / OSC API
Optical Feature	360° x 85° FOV
Video Resolution	3840 x 1920 @30fps 1360 x 5760 @30fps
Multi-channel Output	5 video streaming (30fps)
Streaming Protocol	RTP / RTSP
Audio Input	Microphone x 1
Operating / Storage Temperature	-10° to 50°C / -20° to 60°C
Protection	IK08 housing with IP66 sealing

About Cupola360

Cupola360 Inc., established in 2018, is a subsidiary of ASPEED Technology, a leading IC design company headquartered in Hsinchu, Taiwan. Cupola360 provides comprehensive real-time and AI-friendly 360-degree imaging turnkey solutions, creating a seamless and immersive first-person experience.

By leveraging ASPEED's Cupola360 Spherical Image Processors, Cupola360 has introduced a range of panoramic cameras and deployment software. Our collaboration extends to ecosystem partners, including AI service providers, system integrators, and distributors, with a primary focus on intelligent audiovisual application platform. This includes solutions for various applications such as smart patrol, smart cities, video conferencing, and more. Cupola360 is dedicated to expanding its ecosystem and partnering with others to develop diverse immersive applications.

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