

BLOG

Enabling 24/7 Accurate Monitoring of SMBs with Dahua's AI Perimeter Protection Solution



The perimeter of a [small and medium-sized business \(SMB\)](#) property is its first line of defense against intruders. It keeps the premises away from theft, property loss and security incidents. Having said that, traditional methods of surveillance cannot fully catch up with the round-the-clock monitoring requirement of the scenario and unable to dispatch security personnel in time to handle abnormal situations, especially during night time. Backtracking to locate the cause of the event is deemed too difficult due to the lack of visual evidence.

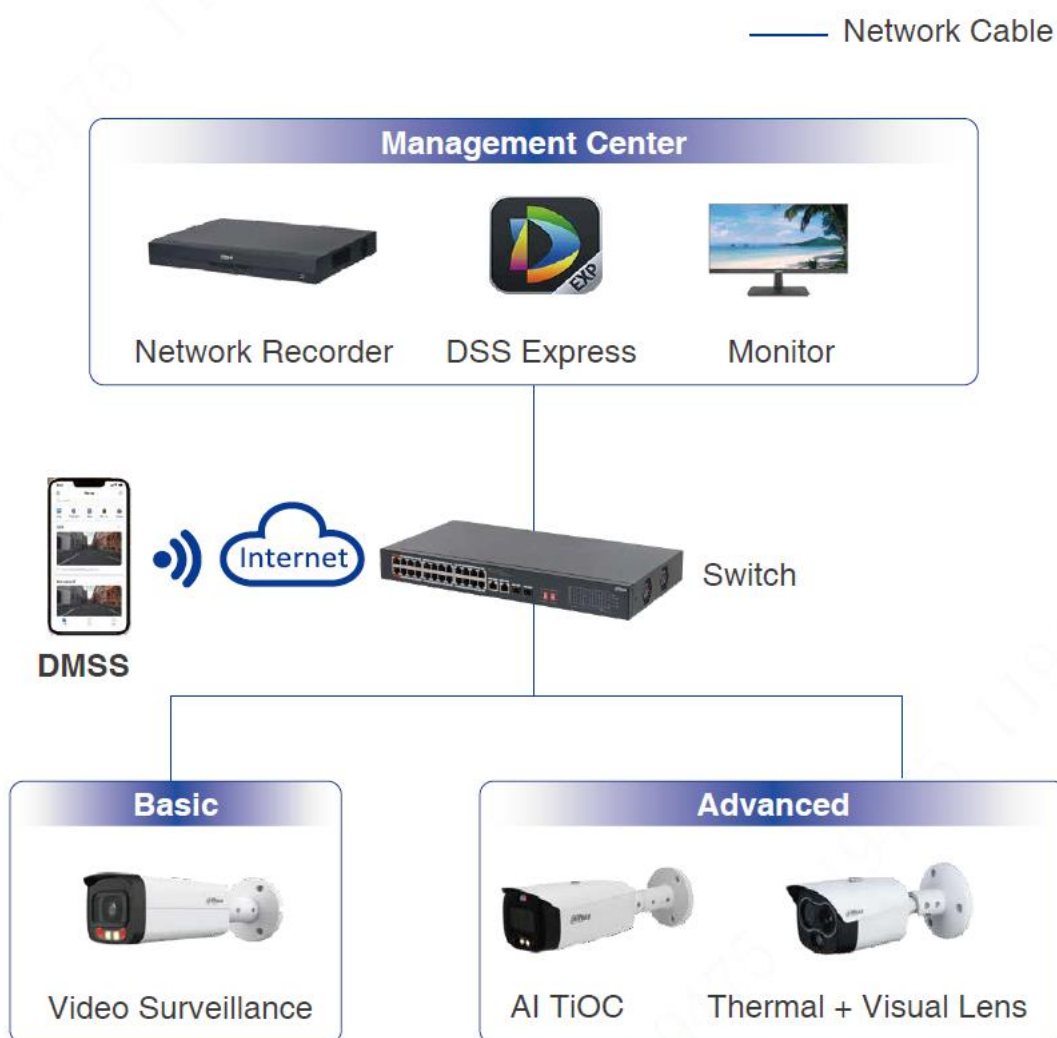
To address these challenges, Dahua Technology developed an AI Perimeter Protection Solution that can realize 24/7 perimeter protection, enabling accurate detection of intrusion events, active deterrence, and notification of security personnel in time when an intrusion is detected. It also provides a clear video recording of the incident that can serve as valid evidence in case of further investigation.

In terms of benefits, Dahua's AI Perimeter Protection Solution has a variety of options tailored to the actual needs of customers based on their application scenarios:

- **Basic:** This option offers a 15-meter perimeter protection coverage and round-the-clock video recording of evidence.
- **Advanced (TiOC):** With Dahua's [Three-in-One Camera \(TiOC\)](#), this option also offers a 15-meter perimeter protection coverage, combined with accurate AI-powered detection of intrusion, focusing on real threats in the monitored

scene. It can perform real-time processing of events using active deterrence and provide instant notification through the DMSS app for quick response to prevent any loss. What's more, a clear video recording of intrusion evidence is also available in case of an investigation.

- **Advanced (Thermal + Visual Dual Lens):** This particular option offers a longer perimeter protection coverage of 50 meters. It provides precise intrusion detection powered by AI, with instant notifications via the DMSS app to enable the security personnel to respond in time when an intrusion is detected. For evidence, clear video footages can also be retrieved, thanks to the intelligent camera equipped with thermal and visual dual lens.



Dahua's AI Perimeter Protection Solution Topology

Overall, Dahua's AI Perimeter Protection Solution is a complete AI-powered security solution that offers 24/7 accurate detection, timely processing of intrusion events, and clear intrusion evidence in case of a security breach, making it suitable for a wide-range of SMB scenarios such as factory, apartment complex,



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construction site, school, hotel, and more.

About Dahua Technology

Dahua Technology is a world-leading video-centric AIoT solution and service provider. Committed to enabling a smarter society and better living, Dahua has deployed its products, solutions, and services in 180+ countries and regions, covering transportation, manufacturing, education, retail, banking & finance, energy, environmental protection and various industries. The company has more than 23,000 employees, with over 50% of R&D technicians. Focusing on technological innovation, Dahua has established five major research institutes, with annual R&D investment accounting for approximately 10% of its sales revenue. The company continues to explore emerging fields based on in-depth insights and layout of AIoT, and has extended its innovative businesses including Imou, iRAYPLE, Pixfra, Waythcan, Wisualarm, Dahua Memory, etc. In line with its core value of "Customer Success, Employee Achievements", Dahua strives to provide the market with excellent quality and service, create more value for customers, and proactively contribute to a safe, low-carbon, beautiful and harmonious world.

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