# Analysis of Intelligent Video Surveillance Technology's

# Current Conditions and Development Trend

(**Source From cps.com**) The intelligent video surveillance technology will definitely attract most consumers' attention and become a very popular one in the existing video surveillance market. With the traditional surveillance changing from the "passive surveillance" into "initiative surveillance" model, the intelligent video technology turns the available information into valuable data. It can effectively monitor the target area while keeping 24/7 hour operation and deleting a mass of useless information. In a word, according to the present economic development and users' requirements, the intelligent video analysis surveillance system is supposed to be the new, hot product in the video surveillance market through its unique advantages.

**Development Status**

In fact, it has past ten years since the intelligent video analysis technology was applied in the surveillance area. It is always on the way of ongoing progress, but still occupies a rather smaller scale including bank, traffic, industry, retail industry and so on. That's to say, the market of the intelligent video surveillance is still to be developed including technology, standard and practicability.

Undoubtedly, there are so many difficulties for people to work out while dealing with the application and promotion issues of iVAS system, which is out of common users' expectation. Meanwhile, the individual ordinary users don't have enough professional ability and usage patience. Specifically, the system needs user to adjust related parameter setting including light and

weather conditions. Herein, even as some professional system operators feel confused about it, let other common users alone. Thus, all these factors increase the difficulty of production promotion, because many users would like to regard this kind of advanced system production as showy but not substantial, making a negative effect on the brand building.

## Development Trend

After studying constant cases of manufacturers' trying to put the intelligent video analysis technology into business application in the past decades, we conclud its development trends respectively as follows.

Firstly, in the technical perspective, the applicability of intelligent video analysis technology needs to be promoted to realize its largest marketization. Moreover, the manufacturers are required to focus on core algorithms and other aspects: a) adapted to more complex and invariable scenes; b) recognizing and analyzing more behavior and abnormal cases; c) lower costs; d) more flexible products. When the requirements of video monitoring constantly develop, researchers and manufactures need to consider how to make use of this technology to recognize and analyze more kinds of behaviors. Therefore, only the theory connected to practice could help the intelligent video analysis technology to satisfy the users altogether, with bringing out the final realization of its future industrialization value.

Secondly, as far as the flexible application of module design is concerned, users gradually depend on the smart surveillance system more and more, so that the industrial requirements largely increase. In detail, the high-ranking function modules concerning perimeter, analysis of abnormal behavior and dynamic tracking, need to be expanded flexibly to meet the varied requirements of particular users. In the existing surveillance market, it is the major theme to provide a whole set of intelligent system solution based on the industrial application.

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For instance, the past model aims at the simple security and defense; but, now more and more users become apt to the efficiency in the surveillance management. In the bank business surveillance area, the main problem is to solve the video image's definition, which also restores the real scene and face recognition. Or in another saying, the face recognition is the most reliable and significant function in the bank surveillance system. As you know, the ATM site needs to confirm the identity of payee to put account's money into a rather safer position. Thus, a lot of troublesome cases, such as fraud actions and financial mistakes, could be largely reduced for the bank.

Anyway, within the "safe city" project, users don't only want to use the system to provide more available proof information to help the police to solve criminal cases, but aim at applying it into more kinds of business types, including emergency command, disaster rescue, environmental surveillance and etc. Besides, the education industrial edition iVAS can also realize the school's security conditions surveillance, electric examination room management, and make contribution to online education and so on. The traffic iVAS can be applied into real-time traffic jam broadcasting, traffic violation surveillance, traffic flow monitoring and et al. Thus, combing the customer requirements from different industries with human resources can work out a series of effective individual working solutions, which is the future development trend of intelligent video surveillance.

Anyway, it is universally admitted that the customer requirements are always the most catalyst to promote the industrial development, while the intelligent surveillance is supposed to be the main stream in the present security surveillance market. All in all, appropriate human resource management or adjustment, multiple technological experiments and experience accumulation could largely help to realize the customized projects of different iVAS editions.

**Conclusion**

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With the continuous promotion of a series of State's major engineering projects, including State emergency rescue, safe city, safe schoolyard, technological alerts and etc, the development perspective of intelligent surveillance is expected to be very large in China indeed, with covering finance, medical treatment, traffic, school, public entertainment, and other series of civic security areas.

However, it is the market requirements that lead the whole security surveillance industry into a rapid development and research status, to promise the safety of people's life and properties, improve life quality, defense all kinds of disasters, promote the energy conservation as well as emission reduction.

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