

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 new favorite one in the existing video surveillance market.

With the traditional surveillance changing from the "passive surveillance" into "initiative surveillance", the intelligent video technology change the available information into valuable data. It can effectively monitor the target area while keep 24/7 hour normal operation and deleting a mass of useless information. In a word, according the present economic development and uses' requirements, intelligent video analysis surveillance system is supposed to be the new hot product in the video surveillance market through its uniquely competitive advantages.

Development Status

In fact, it has past ten years since the intelligent video analysis technology was put in to the surveillance area. It is always on the way of 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, for instance, technology, standard and practicability.

Undoubtedly, there are so many difficulties for people to break through while dealing with the application and promotion of iVAS system, which is out of common users' expectation. Meanwhile, the individual ordinary users don't have enough professional ability and usage

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patience. Specifically, the system need user to adjust related parameter setting including light and weather conditions. Herein, even some professional system operators feel confused about it, so let other ordinary users alone. Thus, all these factors increase the difficulty of production promotion itself, 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 concluded its development trends respectively as follows.

Firstly, in the technical perspective, the applicability of intelligent video analysis technology needs to be promoted so as 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. The requirements of video monitoring constantly developing, 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 satisfy the users to the largest extent, 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 more and more on the smart surveillance system, so that the industrial requirements largely increase. In detail, the high-ranking function modules about the perimeter, analysis of abnormal behavior and dynamic tracking, need to be expanded flexibly to meet the varied requirements of

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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.

For instance, the past model aimed at the simple security and defense in the past; 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 work out 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 point needs to confirm the identity of payee so as to put itself 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, in the safe city project, users don't only want to use the system to provide more available proofs to help the police to solve criminal cases, but apply 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 online education and so on. The traffic iVAS can be applied into real-time traffic jam broadcasting, traffic violation, 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 the most catalyst to promote the industrial development, and 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 make contribution to the customized projects of different iVAS editions.

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Conclusion

Within the ongoing promotion of a series of national major engineering projects, including state emergency rescue, safe city, safe schoolyard, technological alerts and etc, the development perspective of intelligent surveillance in China is expected to be very large 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 to a rapid development and research state, in order to promise the safety of people' s life and properties, to promote life quality and defense all kinds of disasters, to promote the energy conservation and emission reduction.

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