



Quicklart, Privacy-enabled AI Video Surveillance

Families, neighborhoods and communities are all affected when violent crime occurs. Violent crimes cause physical harm as well as social and emotional distress including injury, disability, premature death, depression, anxiety and post-traumatic stress disorder. In neighborhoods, violent crime can lead to less physical activity. When personal safety is threatened, individuals are less likely to choose to walk to their destination, regardless of neighborhood or kind of business, some violent threats are worse than the others, how to eliminate these threats or reduce them? What is the safe way that we can follow to save lives and protect ourselves and others?

The current traditional human monitoring and recording systems, such as “CCTV” only register the events on their occurrence time rather than expecting the event earlier and giving a warning. This gap of the traditional systems causes problems. An example of those problems is that people cannot have a predictable solution to the crimes that could occur, which complicates the process of the protection and preventing a certain crime.

3D detection of the objects will help to get the needed data in the process of human behavior analysis. With 2D recognition we only have a few information about the detected object, and the environment. 3D recognition can determine the distance, and depth movements of the detected object, and 3D recognition needs some additional tools such as using two types of cameras RGB camera and depth camera, with IR projector.

“After testing in many cameras we concluded that Azure Kinect DK from Microsoft is the best fit for our solution, because of its advanced AI Sensor SDK for low-level sensor, depth sensor Body Tracking SDK for tracking bodies in 3D, and Cognitive Vision services, which can be used with the device RGB camera”.

- Ashraf AL-Modwahi, CEO
Quicklart

After working and testing for several years in the development and evaluation of an intelligent video surveillance system based on human behavior detection and analysis with the proposed model that depends on the 3D detection techniques and human behaviors analysis, we built Quicklart.



Quicklart has been designed and developed by *IBB Innovations, LLC*. **Quicklart** is a Privacy-enabled AI video surveillance solution that detects and analyzes human suspicious behaviors, detecting gun/knife threats, fighting, fallen body(s) on ground, etc. preventing crimes by notifying authorities in real time/instantly, instead of just recording, while other (CCTV) captures images of people, which can be used, stored, manipulated and disseminated, whereas **Quicklart** is privacy enabled (No face recognition, age, gender, etc.). Going from 2D to 3D image processing, AI deep learning, depth sensor technology, and powerful detection techniques simulating a vision power of more than 200 human eyes, allocating 26 skeleton joints of more than 30 bodies at the same time.



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