Police Video Recording Privacy Protection and Storage Optimization

Product Information:

Our solution provides full anonymity for police body cameras and dashboard cams while providing up to 50% of data reduction with a smart cache storage system to lower the skyrocketing storage cost and allow public accessibility.

Our patent-pending technology detects and scrambles (anonymizes) the police video subjects’ face, skin color and naked body parts. Once the video is processed a proprietary transcoding algorithm is applied to reduce the data storage space and it is categorized for access using our smart cache system of short and long term storage. In addition, a security module encrypts the anonymized video metadata such that only the authorized entity can view the original video, and it inserts an ID water mark on the original video for traceability purposes.

Our solution is built on Amazon’s Web Services (AWS) platform to meet the requirements of the most security-sensitive organizations with software-based security tools to monitor and protect the flow of data into and out of your account.
Prominent Features:
- State-of-the-Art computer vision detection
- Privacy protection integrity
- Secure pixel encryption stronger than AES 256
- Lower public disclosure and storage cost
- Immutable audit logs to prevent tampering
- Flexible retention policies

Information:
Police departments using body cameras have seen a dramatic drop in officer’s use of force (50%)\(^1\) and citizen complaints (80\%)\(^*\) while promoting transparency and trust within the community at the new expense for equipment, storing recorded data and privacy management cost. The storage space is set to skyrocket at a rate of approximately one gigabyte of video recording per officer per hour, in addition to the processing time required scrambling or blurring portions of the video for privacy management.

---

\(^1\) *Approximately percentage average reduction among two police department reports: 1) 2013 Rialto, Calif. yearlong study by Cambridge University and 2) 2015 Birmingham, Ala.

AeroInfra and TerraFly Inc Partnership
Dr. Naphtali David Rishe, President, ndr@TerraFly.com, 4201 Collins Ave, PH 2603, Miami Beach, FL 33140, USA
Our system allows police departments to save up to 50% of data storage space while providing a secure access to anonymize video recordings with flexible retention policies and immutable audit logs to prevent tampering.

**Future Features:**

- Distortion of audio to obscure identity
- Event detection and continuous recording
- Drone video recordings

AerolInfra and TerraFly Inc Partnership
Dr. Naphtali David Rishe, President, ndr@TerraFly.com, 4201 Collins Ave, PH 2603, Miami Beach, FL 33140, USA