

# Enhanced Security for ATM with Face Detection

## Pain Points

### Frequent Fraud and Robbery Cases

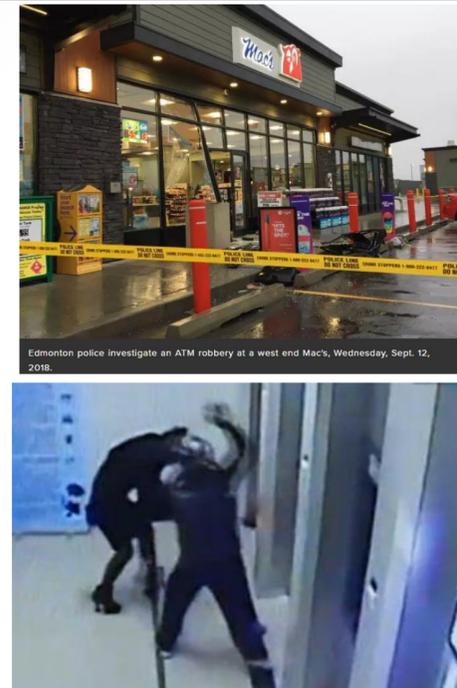
Fraud and robbery cases in self-service banks have occurred frequently, such as robbery, ATMs tampering and financial frauds.

### Delayed Alarm System Warning

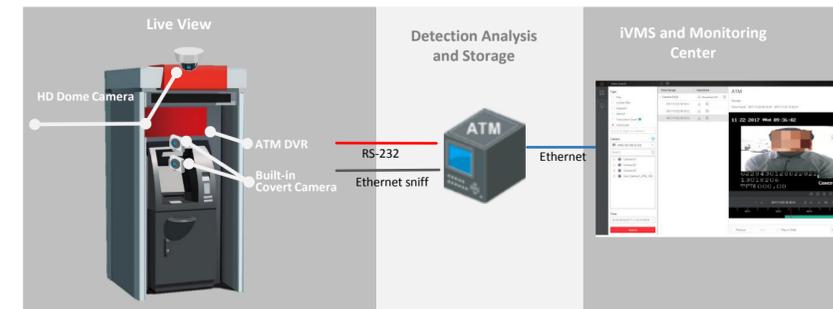
When exception events occur, the system warning response is not timely, and the security of the customer and ATM equipment cannot be fully guaranteed.

### High Labor Costs and Low Efficiency

Manual checking and analysis of large amount of video from rapidly increasing ATM service spots requires high labor costs but with low efficiency and accuracy.



## Solution Highlights



### Deep Learning Technology for Face Detection

- Multiple face detection types: multiple faces, abnormal face (e.g., masked face), phone calling detection, etc.
- Higher alarm accuracy with deep learning technology

### Alarm Triggering and Notification

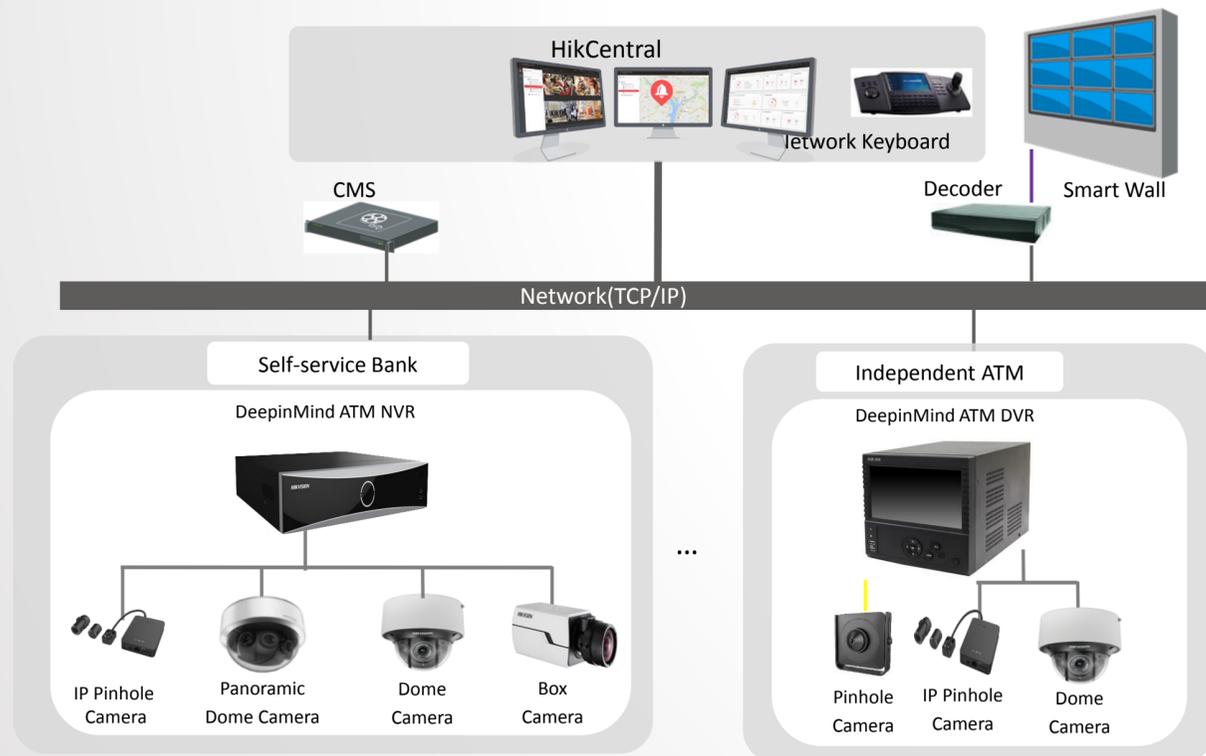
- In case of exception events detected, the system triggers alarm actions immediately and sends notification to the surveillance center

### Provide Crucial Evidence

- Defuse banking disputes and improve customer service
- Provide crucial evidence for further investigation

### Lower Costs and Operational Efficiency

## Solution Architecture



Network Cable Video Line BNC

## Product Showcase

 <p><b>DeepinMind ATM HDVR</b></p> <ul style="list-style-type: none"> <li>4ch HDTV/analog and 4ch IP cameras access by default</li> <li>H.264+ real-time 1080p encoding</li> <li>Up to 2-ch for face detection, and 2-ch for other VCA detection or 4-ch for VCA detection (operation panel/environmental/safety cabin detection) Multiple information overlay</li> <li>ATM card number, transaction amount/type and others</li> <li>Triggered by commands, ATM transaction and VCA alarms</li> <li>Transaction card number, amount, type and VCA alarms</li> <li>7-inch touchable LCD</li> </ul>	 <p><b>DeepinMind ATM NVR</b></p> <ul style="list-style-type: none"> <li>Up to 32-ch IP cameras can be connected</li> <li>H.265/H.265+/H.264/H.264+/MPEG4 self-adaptive</li> <li>2-ch @ 8 MP (30fps)</li> <li>Full channel recording at up to 12 MP resolution</li> <li>8 SATA interfaces and 1 eSATA interface available</li> <li>HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage scheme configurable</li> <li>Up to 2-ch for face detection, and 2-ch for other VCA detection or 4-ch for VCA detection</li> </ul>	 <p><b>Analog Pinhole Camera</b></p> <ul style="list-style-type: none"> <li>2 MP high performance CMOS</li> <li>Ultra-low light</li> <li>1920 × 1080 resolution</li> <li>120 dB true WDR, 3D DNR</li> <li>Switchable TVI/CVBS</li> <li>Applicable for ATM machine</li> </ul>	 <p><b>IP Pinhole Camera</b></p> <ul style="list-style-type: none"> <li>1/3" Progressive Scan CMOS</li> <li>Up to 1280×960@30fps for real-time output</li> <li>True WDR, up to 120dB</li> <li>PoE power supply is supportable</li> <li>Support HLC, Defog and EIS</li> <li>Optional appearance of the front-end(the mini bullet and block) and brackets</li> </ul>	 <p><b>HikCentral Management Software</b></p> <ul style="list-style-type: none"> <li>Central management of devices</li> <li>Alarm handling and management</li> <li>Live view and playback</li> <li>Health status monitoring</li> <li>Receive analysis data and generate reports</li> </ul>
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