Operation Flow

Drivers

System check before operation

System start for operation

End operation

CTO / CAD / Forwarder

Regular check is required

Call for Streaming Videos

Alert users

AI check (Cloud Server)

False alert

True alert

Record (Web server)

Have trigger event(s)

No trigger event

End operation
Introduction of Safe 3.0 System

- LiDAR sensors detect illegal objects
- Cameras record the illegal events
3.5m high from the ground
On truck System UI interface

Sensor trigger lights:
No trigger: Green
Triggering: Red

System status lights:
Operation status
Start Monitor: Green
Stop Monitor: Red

Trigger status
No trigger: Green
Triggering: Red

System error
System no Error: Green
System Error: Red
Control box lights panel

System Power on/off

Sensor trigger lights
(Instant change status)

Operation status  Trigger status  System error

System status lights

System Key button
AI Check - Human detective zone (main mission: Reject false alarm)

AI will decide the case as “Confirmed tampering” when human is detected inside the “White zone”.

AI will decide the case as “false alarm” when human is detected outside the “White zone”.
UI of the user UI system

Double click the order number for reviewing the details

Truck Status

**Green**: Normal

**Red**: Event(s) triggered
Record(s) of triggered events

Tab 1: To be reviewed by A.I.
Tab 2: Confirmed tampering
Tab 3: False alarm

Videos Stream button
(For Confirmed tampering & False alarm only)
### Scenario 1

No trigger event during the operation of order

<table>
<thead>
<tr>
<th>狀態</th>
<th>訂單編號</th>
<th>車牌</th>
<th>司機</th>
<th>MAWB</th>
<th>HA WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>O20070700856</td>
<td>FP631</td>
<td>driver01</td>
<td>00166623232</td>
<td></td>
</tr>
<tr>
<td>□</td>
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<td>driver01</td>
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<tr>
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<td>00177343242</td>
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</tr>
<tr>
<td>□</td>
<td>O20070700859</td>
<td>UE708</td>
<td>Kelly</td>
<td>00165652222</td>
<td></td>
</tr>
</tbody>
</table>
Human triggered the event (Confirmed tampering)
After AI processing, video records reviewed by AI and stored in 'Confirmed tampering'.
False triggered Alarm (false alarm) (e.g. tree branches or rubbish)
### Scenario 3

**False triggered Alarm**

Video records reviewed by A.I. and stored in 'False alarm'.

<table>
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</tbody>
</table>

After AI processing

<table>
<thead>
<tr>
<th>狀態</th>
<th>狀況時間(設備)</th>
<th>狀況</th>
<th>GPS位置</th>
<th>camID</th>
</tr>
</thead>
<tbody>
<tr>
<td>安全狀態:非法物件進入</td>
<td>2020-07-08 10:47:42</td>
<td>貨櫃碼頭周邊，貨櫃碼頭周邊停車場</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. Kick the icon
2. Then play the video