



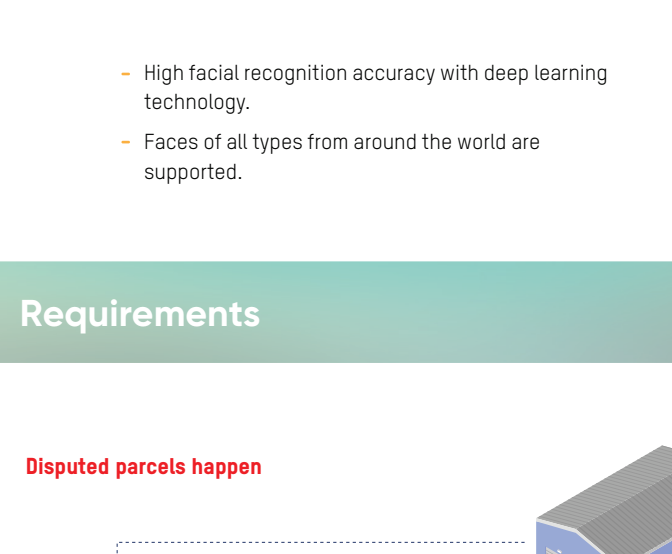
HIKVISION

Parcel Tracking Solution

Market Analysis

Challenges for delivery companies:

Delivery companies struggle to keep up with the **rapid development** of an **express market**.



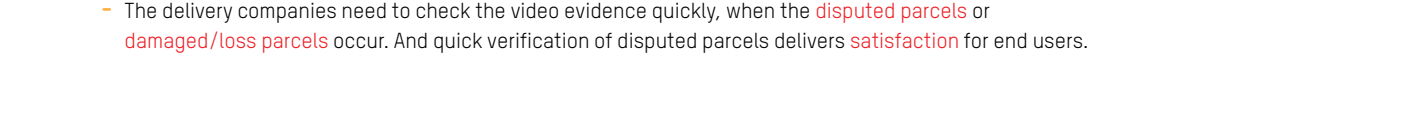
- High facial recognition accuracy with deep learning technology.
- Faces of all types from around the world are supported.

Current delivery companies



Requirements

Disputed parcels happen

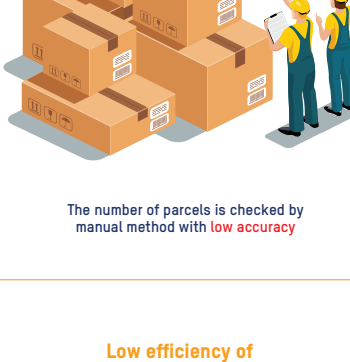


- The delivery companies need to check the video evidence quickly, when the **disputed parcels** or **damaged/loss parcels** occur. And quick verification of disputed parcels delivers **satisfaction** for end users.

Pain points

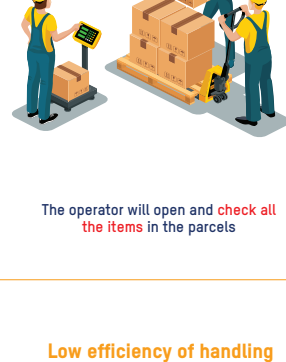
- 1 **Video saving isolated**
The video clips are separately saved in local NVRs when parcels are delivered from each station.
- 2 **Low efficiency of video verification**
The operator needs to check the whole video recording separately, which consumes too much time.

Inbound Progress



The number of parcels is checked by manual method with **low accuracy**

Quality Check (QC)



The operator will open and check **all the items** in the parcels

Dispatch Progress



The parcels are scanned by handheld scanner

Pain points

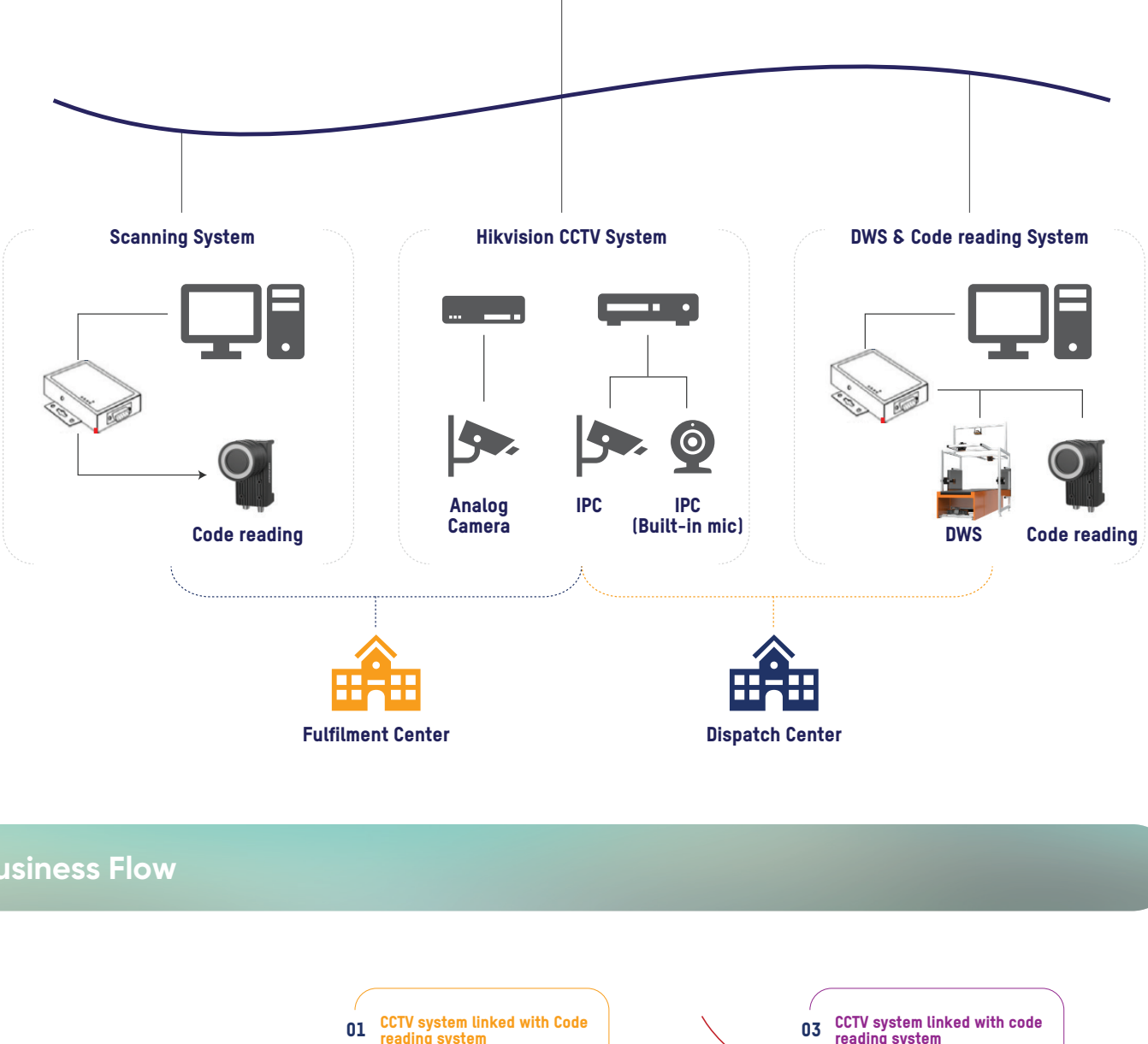
Low efficiency of checking manually

Low efficiency of handling damage/loss parcels

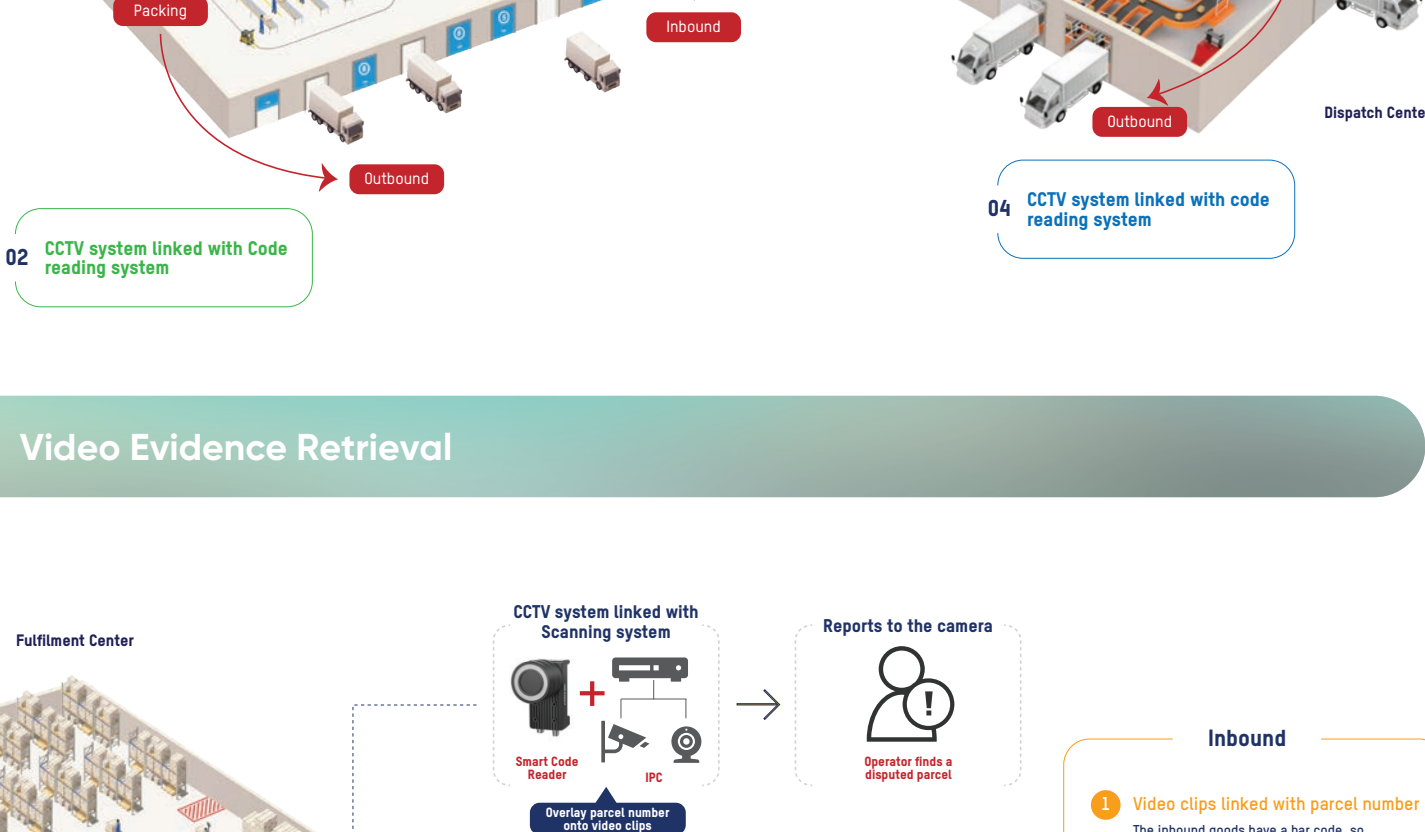
Low efficiency of dispatch

- Complete shipment process for in-coming parcels, and sorting by destination is mostly handled by manpower. Additionally, dispatch centers with handheld scanners fail to sort parcels quickly. The **operation efficiency needs to be improved** as the express industry increases.

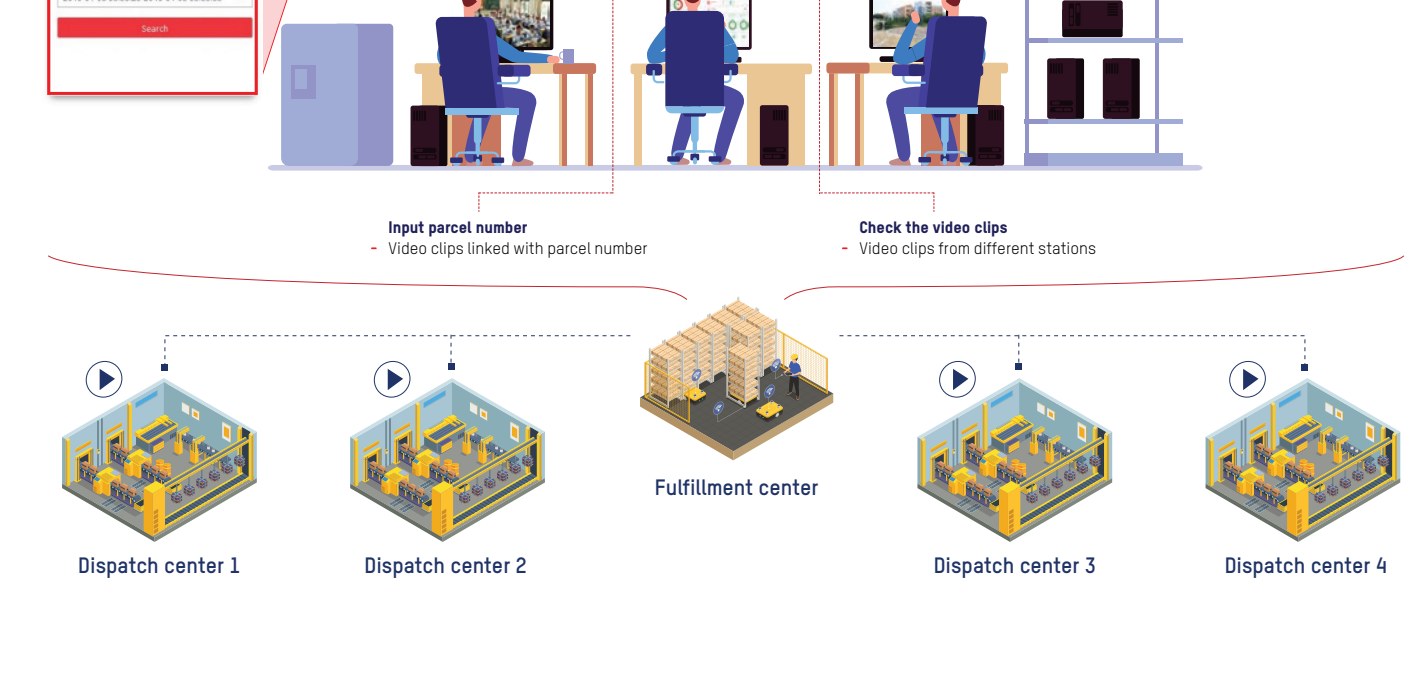
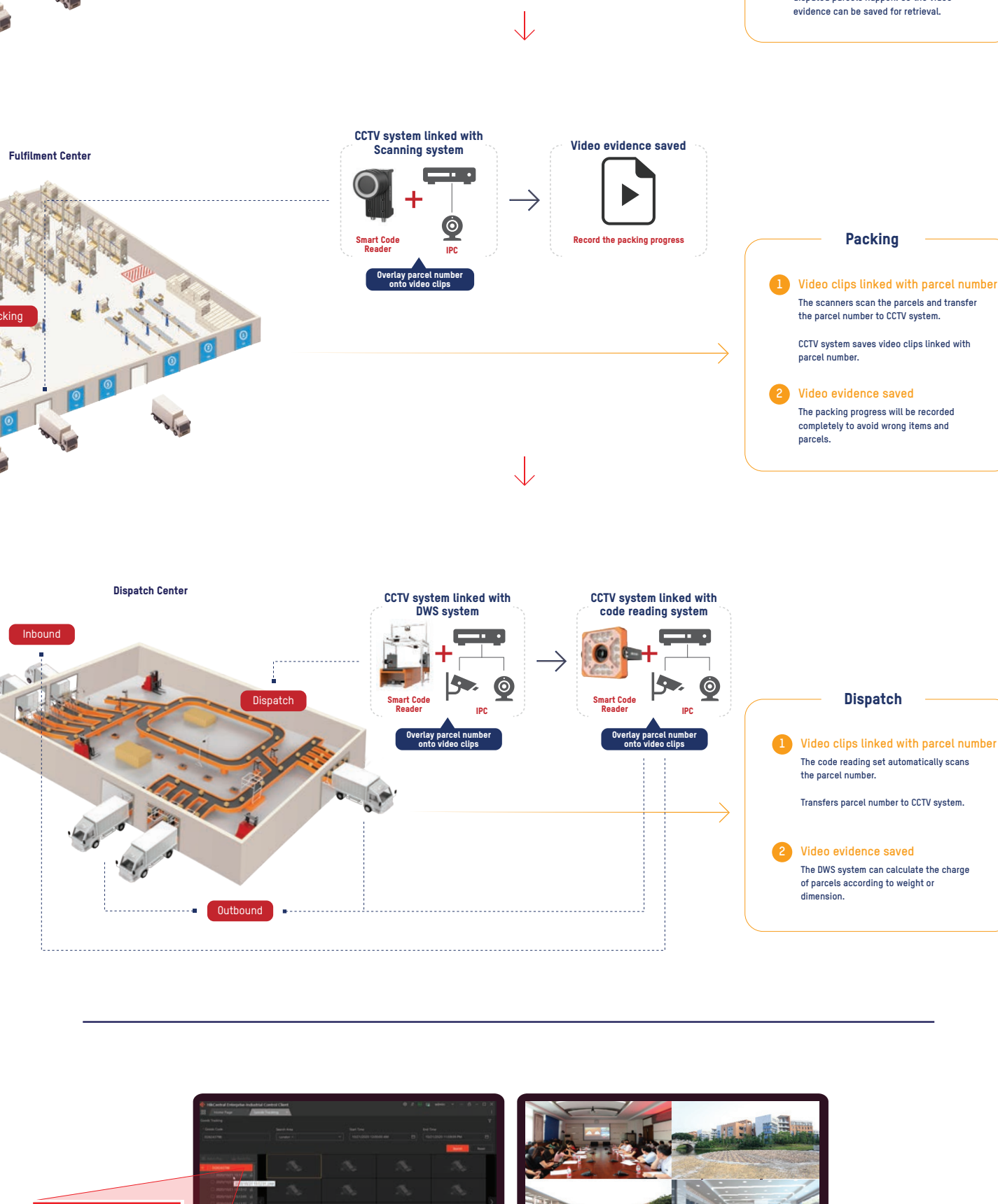
Solution Architecture



Business Flow



Video Evidence Retrieval



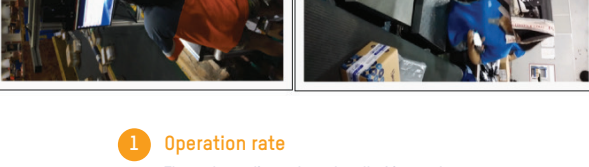
- Combined CCTV system with code reading set: This parcel tracking solution is able to **record the inbound and outbound time of parcels**. If a parcel does not appear after some specific time, it will **generate an alarm** to notify the operator.

Improving Operating Efficiency

Improves dispatch efficiency

Code Reading Set

Scanner



- 1 **Operation rate**
The code reading set can handle 80 parcels per minute **twice the speed** of using traditional handheld barcode scanners or PDAs.
- 2 **One hand operation**
It is possible to use static code reading sets to scan a barcode with **just one hand**.

Improves efficiency of charging

Static Barcode Scanning System

Dynamic Barcode Scanning System

Multi-Surface DWS System

- 1 **Modularized system**
Combination of a code reading set, an electronic scale and a binocular 3D camera which meets actual customer needs.
- 2 **Automatically charge**
Calculates the charge based on the volume or the weight.

- Compared with a handheld scanner, the Parcel Tracking Solution with code reading set greatly improves the efficiency of dispatching. Additionally, the multi-type DWS system is able to calculate the weight and subsequent charge for parcels automatically.

3rd Party Connections



Product Showcase

Smart Code Reader



MV-ID6089M-00C-NGG
MV-ID6280M-00C-NGG



MV-PD010003-21
MV-PD010003-23

External LED Lights



MV-LB-200-200-40WLS
MV-LB-200-200-4030WL-A

VMS



HikCentral Enterprise



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