SMART EVOLUTION IN IP SURVEILLANCE
Why Choose Hikvision's Smart Solution 2.0?

As IP surveillance becomes more widespread, requirements increase for the corresponding products and applications. For example, the increased number of locations under surveillance means it’s more time-consuming to monitor and prevent unwanted activity. Searching through massive amounts of stored data to find specific events becomes more tedious as well. Additionally, as more and more employers turn to video surveillance as a tool to improve business productivity, it becomes even more important to efficiently manage video footage. In order to meet these challenges, Hikvision introduces its new Smart Solution 2.0. With new add-on Smart features and a greater range of security products included, Smart Solution 2.0 boasts significant improvement in CCTV safety and business productivity.

Key Features of Smart Solution 2.0

• Enriched Smart Features
• Industry-Leading IP Products
• Versatile Solutions
• Tailored to Vertical Applications
2013-08
Hikvision introduces Smart IPC front-end product line. This professional and series combines high performance with a full set of Smart features.

2014-03
Hikvision launches a fully compatible IP product bundle: Smart Solution, which includes Smart IPC, Smart PTZ, and Smart NVR. It ushers in a new era of high-end IP surveillance applications.

2015-03
Hikvision introduces Smart Solution 2.0, with new Smart features added, more powerful functionality, and a greater range of security products included. This solution also includes the iVMS-5200 Professional software, which can be custom-tailored for various vertical applications.
HOW DOES IT WORK?

Smart Search
Quick retrieval of the camera’s Smart content, such as ANPR or facial recognition.

Smart Playback
Playback important events in normal speed, otherwise footage will play in 16x quick view.

Smart Backup
Only store event-based video to maximize storage.
This amazing and intelligent solution has enriched Smart features, and consists of many innovative, industry-leading IP products. The Smart Solution 2.0 solution is also the ideal choice for various vertical applications.

- **Enriched Smart Features**
  Smart IP Solution 2.0 includes Smart features such as object counting, region entering, region leaving, object removing, object leaving, target cropping stream and ANPR (customization required).

- **Industry-Leading IP Products**
  New Hikvision IP cameras have been incorporated into this solution, including the DarkFighter series, LightFighter series, 6MP Ultra HD series, 4K series, and new 3MP WDR series, with industry-leading product performance.

- **Versatile Solutions**
  Smart IPC and Smart NVRs with Smart features are the perfect solution for small and mid-sized applications.

  For mid-sized to large-sized applications, iVMS-5200 Professional software further improves the system’s effectiveness with Smart features and analytics.

- **Tailored to Vertical Applications**
  As an all-in-one Smart platform to manage cameras, NVRs, alarms, access control and decoders, the Smart Solution 2.0 is loaded, with Smart features and analytics such as people counting, heating mapping, LPR, and more. This makes it highly adaptable to verticals’ special requirements and can be used in retail, banking, hotel and industrial applications, among others.
Enriched Smart Features

■ Target Cropping Stream
The third stream of video can be sent to a different source for recording or display in a pre-defined resolution, thus providing more details of a targeted area if needed.

■ Object Counting
You can designate an area of interest and let the camera count objects entering or leaving, which include not only humans but also vehicles. It also offers statistical reports.

■ Region Enter / Exit
This function detects people, vehicles or other objects that enter or exit from a pre-defined virtual region, triggering an alarm.

■ Object Left Behind / Object Removed
This function detects objects left or removed from a pre-defined region, the alarm is triggered.

■ ANPR
On-board ANPR analytics allow the ability to detect and recognize a vehicle’s license plate and send ANPR info to a Smart NVR or iVMS-5200P for access management.
* Supports may vary based on local LPR algorithm development and customization process required.

Smart Feature-Set
Face Detection, Intrusion Detection, Smart Codec, Low Latency, Line Crossing Detection, Defocus Detection, Scene Change Detection, Audio Detection, ABF, P-Iris, Smart
Industry-leading IP Products

- Accurate people counting analytic
- Customer traffic statistic report
- Full HD resolution IR PTZ camera
- Entrance management
- Black/white list filtering
- Accurate people counting analytic
- Multi-location management via iVMS-5200 Professional
- 8MP or 12MP real-time video
- Enhanced H.264+ codec
- Industry-leading 140dB WDR
- Low Light Environment
- Super Long Distance

Heat Map
- Heat map analysis
- Multi-location management via iVMS-5200 Professional

Panoramic View
- 360º Panoramic View
- One camera can cover a large area, such as a meeting room, and minimize total cost

Large Area Monitoring
- LowLightor32Xprerare-time video
- Enhanced H.264+ codec

Versatile Solutions

Small/Mid-Sized Applications
- IPC + iVMS-5200 Professional
- iVMS-5200P
- SMART NVR
- Environment
- Low Light
- Low Light Environment
- Enhanced H.264+

Mid/Large-Sized Applications
- IPC + iVMS-5200 Professional
- iVMS-5200P
- SMART NVR
- Environment
- Low Light
- Low Light Environment
- Enhanced H.264+
HIGHLIGHTED TECHNOLOGY

- **Smart Codec – H.264+ Optimized Compression**
  
  An efficient way to manage super high resolution video footage

- **Analytic + Compression**
  
  The moving target is extracted from the static background, using a different codec for each element.
  - Background-based Predictive Smart Encoding
  - Enhanced Noise Suppression
  - Optimized Bitrate Control in Long-term Period

- **Hikvision H.264+ Smart Codec**
  
  In a static nighttime environment, the bitrate of H.264+ can reach up to 50-60Kbps, 10-20x over standard H.264 codec, that not only saves bandwidth resources, but efficiently decreases storage requirements.
  - more encoding improvement
  - more transmission efficiency
  - more storage saving

- **ANPR Module**
  
  The perfect solution for your entrance management.
People Counting Module
Boosts productivity as well as security.

Tailored to Vertical Applications

Smart Retail
- POS management
- POS & alarm control
- Heat mapping analytic
- People counting analytic
- Demographic analytic
- Multi-store management
- Conversion rate analytic

Smart Industrial
- Intrusion detection
- Thermal detection
- Temperature detection & over-heating prevention
- Explosion-proof camera
- Auto tracking

Smart Hotel
- Entrance management
- VIP list filtering
- Access control
- Auto tracking
- Panoramic monitoring

Smart Banking
- ATM surveillance
- Event alarm
- Covert monitoring
- Audio exception
- Panoramic monitoring
iVMS-5200 PROFESSIONAL

Business Intelligence (Add-on)
- Transaction Data Analysis: Employee Transaction Report / Commodity Sales Volume / Top Selling
- People Counting Analysis: Customer Traffic Distribution / Customer Traffic Trending / Customer Gender Analysis / Conversion Rate
- Retail Traffic Analysis: Heat Map / Globe Hot Area
- Statistic table export / email / print

Mobile Transportation (Add-on)
- HD Video Monitoring to Deal With Abnormal Situations
- Integrated GIS Map to Manage the On-duty Vehicles
- Multiple Linkage Actions to Handle Exceptional Events
- Business Intelligence to Enhance the Revenue

Transact (Add-on)
- POS live view, Display transaction data alongside corresponding video;
- Transaction Event alarm and report;
- POS search and playback based on invoice number,
- Flexible POS integration support

License Plate Recognition (LPR, Add-on)
- LPR info capture and storage (vehicle surveillance snapshot, plate numbers, etc.)
- Auto display the recognized license plate info while live view
- Search based on time, cameras, plate No. etc.

Access Control Sub-system (Add-on)
- Control the doors: Open Door / Close Door / Remain Open / Remain Closed
- Display the door status via different icons
- View real-time access events and card holders
- Search and view the historical access events

APPLICATION REFERENCE

- Highway in Sea Point, South Africa
  Hikvision secures one of Cape Town’s busiest and most affluent suburbs with an ANPR solution, resulting in a 65% decrease in crime.

- GRW, South Africa
  GRW, a road-tanker transport business, deploys Smart low light cameras at the factory’s perimeter to effectively secure the surroundings day and night.

- Dun Laoghaire Harbour, Ireland
  Hikvision Smart imaging and detection technologies withstand severe weather and deliver superior protection with an upgraded and expanded hybrid CCTV system.

- Thome Oil, Senegal
  At Thome Oil’s Dakar and M’bour locations, Hikvision 2MP Smart IP cameras are installed to successfully read vehicle number plate at the gas station entrance, providing an efficient entrance management solution for the sites.
PRODUCT SHOWCASE

Pro Series Smart PTZs

- 1/1.9" HD CMOS sensor
- 1920x1080P Full HD, 23X Optical Zoom
- Ultra-low illumination
- Smart Tracking
- Smart Detection
- 120db True WDR
- 200m IR distance
- Optional wiper(-W)
- Vandal-proof [IK10]

- 1/1.9" HD CMOS sensor
- 1920x1080P Full HD, 36X Optical Zoom
- Ultra-low illumination
- Smart Tracking
- Smart Detection
- 120db True WDR
- 200m IR distance
- Optional wiper(-W)
- Vandal-proof [IK10]

- 1920x1080P Full HD, 36X Optical Zoom
- 140dB WDR
- Smart Tracking
- Smart Detection
- 200m IR distance
- Optional wiper(-W)
- Vandal-proof [IK10]

- 3MP(2048x1536) HD up to 60fps, 36X Optical Zoom
- Smart Tracking
- Smart Detection
- 120dB WDR
- 200m IR distance
- Optional wiper(-W)
- Vandal-proof [IK10]

- 1/1.9" HD CMOS sensor
- 1020x1080P Full HD, 23X Optical Zoom
- Ultra-low illumination
- Smart Tracking
- Smart Detection
- 120db True WDR
- Vandal-proof [IK10]

- 1/1.9" HD CMOS sensor
- 1020x1080P Full HD, 36X Optical Zoom
- Ultra-low illumination
- Smart Tracking
- Smart Detection
- 120db True WDR
- Vandal-proof [IK10]
Smart IP Network Cameras

- **DS-2CD4025FWD-A(IP)**
  - 2MP Smart IP Box Camera
  - 1080p Full HD, 36X Optical Zoom
  - 140dB WDR
  - Smart Tracking
  - Smart Detectio
  - 200m IR distance
  - Optional wiper(-W)
  - Vandal-proof (IK10)

- **DS-2CD4035FWD-A(P)**
  - 3MP Smart IP Box Camera
  - 1920x1080 Full HD, 36X Optical Zoom
  - Smart Tracking
  - Smart Detection
  - 200m IR distance
  - Optional wiper(-W)
  - Vandal-proof (IK10)

- **DS-2CD4026FWD-A(P)**
  - 2MP Smart IP Box Camera
  - 1920x1080 Full HD, 36X Optical Zoom
  - 140dB WDR
  - Smart Tracking
  - Smart Detection
  - 200m IR distance
  - Optional wiper(-W)
  - Vandal-proof (IK10)

- **DS-2CD4065F-A(P)**
  - 6MP Smart IP Box Camera
  - 3072x2048 resolution
  - Up to 25fps video
  - 2.8-12mm Motorized VF lens
  - Auto Back Focus
  - (P) P-Iris optional
  - Full Smart Feature-set
  - Stereo Audio Sampling, Triple Power Supply, Supports On-board Storage

**SMART SOLUTION 2.0**
DS-2CD4085F-A (P)
8MP Smart IP Box Camera
4K
• 1920x1080 resolution
• Full HD1080p, up to 60fps
• 140dB WDR
• 2.8~12mm Motorized VF lens
• Vandal-proof
• Up to 30m IR
• Full Smart feature-set
• Smart Auto Focus, Audio/Alarm IO

DS-2CD40C5F-A
12MP Smart IP Box Camera
4K
• 4000x3000 resolution
• DWDR
• Auto Back Focus
• Full Smart Feature-set
• Stereo Audio Sampling, Triple Power Supply, Supports On-board Storage

DS-2CD4125FWD-IZ
2MP Smart IP Indoor Dome Camera
• 1920x1080 resolution
• Full HD1080p, up to 60fps
• 140dB WDR
• 2.8-12mm Motorized VF lens
• Vandal-proof
• Up to 30m IR
• Full Smart feature-set
• Smart Auto Focus, Audio/Alarm IO

DS-2CD4126FWD-IZ
2MP Smart IP Indoor Dome Camera
• 1920x1080 resolution
• Full HD1080p, up to 60fps
• Ultra Low light
• 120dB WDR
• 2.8-12mm Motorized VF lens
• Vandal-proof
• Up to 30m IR
• Full Smart feature-set
• Smart Auto Focus, Audio/Alarm IO

DS-2CD4135FWD-IZ
3MP Smart IP Indoor Dome Camera
• 2048x1536 resolution
• Real-time video
• 120dB WDR
• 2.8-12mm Motorized VF lens
• Vandal-proof
• Up to 30m IR
• Full Smart Feature-set
• Smart Auto Focus, Audio/Alarm IO

DS-2CD4165F-IZ
6MP Smart IP Indoor Dome Camera
• 3072x2048 resolution
• Up to 25fps video
• WDR
• 2.8-12mm Motorized VF lens
• Vandal-proof
• Up to 30m IR
• Full Smart Feature-set
• Smart Auto Focus, Audio/Alarm IO

SMART SOLUTION 2.0
### 8MP Smart IP Indoor Dome Camera

**DS-2CD4185F-IZ**
- 4096x2160 resolution
- 2.8~12mm Motorized VF lens
- Smart Auto Focus
- DWDR
- Audio/Alarm IO
- Vandal-proof
- Up to 30m IR
- Full Smart Feature-set

### 2MP Smart IP Bullet Camera

**DS-2CD4A25FWD-IZ (S)(H)**
- 1920x1080 resolution
- Full HD1080p, up to 60fps
- 140dB WDR
- 2.8~12mm Motorized VF lens
- 8~32mm lens optional
- IP67
- Up to 100m IR
- Full Smart Feature-set
- Smart Auto Focus
- *[-S] Audio/Alarm IO optional
- *[-H] Built-in heater optional

### 6MP Smart IP Bullet Camera

**DS-2CD4A65F-IZIP(S)(H)**
- 3072x2048 resolution
- Up to 25fps video
- WDR
- 2.8~12mm Motorized VF lens
- IP67
- Up to 50m IR
- Full Smart Feature-set
- Smart Auto Focus
- *[-S] Audio/Alarm IO optional
- *[-H] Built-in heater optional

### 8MP Smart IP Bullet Camera

**DS-2CD4A85F-IZIP(S)(H)**
- 4096x2160 resolution
- Up to 25fps video
- 2.8~12mm Motorized VF lens
- Smart Auto Focus
- IP67
- Up to 50m IR
- Full Smart Feature-set
- Smart Auto Focus
- *[-S] Audio/Alarm IO optional
- *[-H] Built-in heater optional
**DS-2CD4526FWD-IZ(H)**
2MP Smart IP Outdoor Dome Camera

- 1920x1080 resolution
- Full HD 1080p, up to 60fps
- 140dB WDR
- 2.8-12mm Motorized VF lens
- 8-32mm lens optional
- IP66 & Vandal-proof
- Up to 50m IR
- Full Smart Feature-set
- Smart Auto Focus
*[-H] Built-in heater & fan optional

**DS-2CD4535FWD-IZ(H)**
3MP Smart IP Outdoor Dome Camera

- Built-in HDMI interface
- 1920x1080 resolution
- Full HD 1080p, up to 60fps
- Ultra Low light
- 120dB WDR
- 2.8-12mm Motorized VF lens
- IP66 & Vandal-proof
- Up to 50m IR
- Full Smart Feature-set
- Smart Auto Focus
*[-H] Built-in heater & fan optional

**DS-2CD4585F-IZ(S)(H)**
8MP Smart IP Outdoor Dome Camera

- 4096x2160 resolution
- 2.8-12mm Motorized VF lens
- Smart Auto Focus
- IP66 & Vandal-proof
- Up to 40m IR
- Full Smart Feature-set
- Smart Auto Focus
*[-H] Built-in heater & fan optional

**DS-2CD4525FWD-IZ(H)**
2MP Smart IP Outdoor Dome Camera

- 1920x1080 resolution
- Full HD 1080p, up to 60fps
- 140dB WDR
- 2.8-12mm Motorized VF lens
- IP66 & Vandal-proof
- Up to 50m IR
- Full Smart Feature-set
*[-H] Built-in heater & fan optional
DS-2CD4635FWD-IZ (S)(H)
3MP Smart IP Outdoor Bullet Camera

- 2048x1536 resolution
- Full HD1080p, up to 60fps
- 120dB WDR
- 2.8~12mm Motorized VF lens
- 8~32mm Motorized VF lens optional
- Smart Auto Focus
- IP66 & Vandal-proof
- Up to 150m IR
- Full Smart Feature-set
*[-S] Audio/Alarm IO optional
*[-H] Built-in heater & fan optional

DS-2CD4665F-IZ (S)(H)
6MP Smart IP Outdoor Bullet Camera
4K

- 3072x2048 resolution
- WDR
- 2.8~12mm Motorized VF lens
- Smart Auto Focus
- IP66 & Vandal-proof
- Up to 70m IR
- Full Smart Feature-set
*[-S] Audio/Alarm IO optional
*[-H] Built-in heater & fan optional

DS-2CD4685F-IZ (S)(H)
8MP Smart IP Outdoor Bullet Camera
4K

- 4096x2160 resolution
- 2.8~12mm Motorized VF lens
- Smart Auto Focus
- IP66 & Vandal-proof
- Up to 70m IR
- Full Smart Feature-set
*[-S] Audio/Alarm IO optional
*[-H] Built-in heater & fan optional

DS-2CD6026FHWD (0733mm)
Smart IP Box Camera

- 1920x1080 resolution
- Full HD1080p, up to 60fps
- Ultra low-light
- 07~33mm Super Large Aperture VF lens included
- ABF optional [-A]
- 120dB WDR
- Supports WDR
*customization process required

DS-2CD4625FWD-IZ(S)(H)
2MP Smart IP Outdoor Bullet Camera

- 1920x1080 resolution
- Full HD1080p, up to 60fps
- 1/40dB WDR
- 2.8~12mm Motorized VF lens
- 8~32mm lens optional
- IP66 & Vandal-proof
- Up to 150m IR
- Full Smart Feature-set
- Smart Auto Focus
*[-S] Audio/Alarm IO optional
*[-H] Built-in heater & fan optional

DS-2CD4626FWD-IZ(S)(H)
2MP Smart IP Outdoor Bullet Camera

- 1920x1080 resolution
- Full HD1080p, up to 60fps
- Ultra low-light
- 120dB WDR
- 2.8~12mm Motorized VF lens
- IP66 & Vandal-proof
- Up to 70m IR
- Full Smart Feature-set
- Smart Auto Focus
*[-S] Audio/Alarm IO optional
*[-H] Built-in heater & fan optional

SMART SOLUTION 2.0
DS-2CD6362F-I
6MP IR Fisheye Camera

- 360º Panoramic View
- Up to 3072x2048 resolution
- ePTZ control
- Supports Heat Mapping Analytic
- Supports People Counting (2015.07)
- On-board hardware de-warping
- Supports software de-warping (via iVMS5200P)
- Audio/Alarm IO (-S)
- Pinhole lens (-10/20)
- Fixed tube lens (-30)
- Up to 8m lens cable
- Outdoor version: IP66 & Vandal-proof [-V]

DS-2CD6362F-I (S|V)
12MP IR Fisheye Camera
4K

- 360º Panoramic View
- Up to 4000x3072 resolution
- ePTZ control, up to 1600x1200 resolution
- Supports Heat Mapping Analytic
- On-board hardware de-warping
- Supports software de-warping (via iVMS5200P)
- Audio/Alarm IO (-S)
- Outdoor version: IP66 & Vandal-proof [-V]

DS-2CD6412FWD-10/-20/-30
1.3MP WDR Covert Camera

- 1280x960 resolution
- 120dB WDR
- Supports on-board storage
- Audio/Alarm IO
- Pinhole lens (-10/20)
- Fixed tube lens (-30)
- Up to 8m lens cable

DS-2CD6412FWD-11/-21/-31
1.3MP WDR Dual-Lens Covert Camera

- 1280x960 resolution
- 120dB WDR
- Supports on-board storage
- Audio/Alarm IO
- Pinhole lens (-11/21)
- Fixed tube lens (-31)
- Supports dual lens units
- Up to 8m lens cable

Network Storage
DS-A81016S
Network Storage System

- High performance with 64 bit RISC processor
- Up to 16 HDD, each disk up to 4TB capacity
- Support up to 180-ch 4CIF real-time recording
- iSCSI/NFS/CIFS/FTP/HTTP/AFP protocols
- RAID 0, 1, 3, 5, 10, 50 and HDD Hotswap supported
- Dual Gigabit network interfaces
- Modularization and redundant power design for highest reliability

DS-A82024D
Stable & Reliable Storage Device

- High-performance & Easy-extensible Hardware Platform
- Highly Reliable System Design, double controller, automatic service takeover when failure occurs
- Disk Detection, Repair and RAID Optimization
- Low Power Design
- Massive Storage Space, 4U chassis with 24 HDs and cascade extension support

SMART SOLUTION 2.0
**NVRs**

**DS-96128/256NI-E16(-E24)/H**
- Embedded Super NVR
- 400/640Mbps Bit Rate Input Max(up to 128/256-ch IP video)
- Third-party network cameras supported
- Up to 8 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- Supports RAID0, 1, 5, 10 & Dual Power
- 16 SATA(DS-96128/256NI-E16)/24 SATA(DS-96128/256NI-E24), 1 mini SAS, 3 USB2.0
- /H models supports up to 6-ch HDMI output interfaces

**DS-9632/64NI-ST(-RT)(-XT)**
- Embedded 2U NVR
- 160Mbps Bit Rate Input Max(up to 32/64-ch IP video)
- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- Dual Gigabit network interfaces
- 8 SATA(DS-9632/64NI-ST/RT)/16 SATA(DS-9632/64NI-XT), 1 eSATA, 3 USB2.0
- *-RT and *-XT series supports RAID0, 1, 5, 10

**DS-7716/32NI-E4(-E4/16P)**
- Embedded 1.5U PoE NVR
- 100/200Mbps Bit Rate Input Max(up to 16/32-ch IP video)
- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- Gigabit network interfaces
- 4 SATA, 2 USB 2.0, 1 USB 3.0
- *-E4/16P series supports 16 independent PoE network interfaces

**Video Walls**

**DS-D2055NH / DS-D2055NL**
- Video Wall Display Unit
- 55-inch, ultra-narrow bezel LCD screen, full-array LED backlight
- Max resolution: 1920×1080
- Brightness: 700cd/m2(NH), 450cd/m2(NL)
- Contrast ratio: 3500:1
- Splicing-line width: 5.3mm

**iVMS**

**DS-5021FC**
- 21"LCD Monitor
- 8bit/10bit 2-ch LVDS(1920×1080) HD display;
- 170° H wide viewing angle;
- True color OSD and user-friendly operation menu;
- Supports 16:9 or 4:3 aspect ratio selectable in OSD menu;
- HDMI, VGA, BNC interfaces
- Built-in speaker and audio amplifier

**iVMS-5200 Professional**
- Video Management Software
- Centralized equipment and user management
- Support access control & license plate recognition;
- Support business intelligence & POS integration;
- Maximum connected devices per system: 1024
- Control client: max 16, Web client: max 16, Mobile client: max 64;
- 3rd party surveillance integration via ONVIF protocol and SDK
Access Controllers

**DS-K2601**
Single Door Access Controller

- Reader Number: 2 Wiegand reader & 2 RS485 reader,
- Entry mode: Single-door & one direction, Single-door & bidirection,
- Input interface: 4 alarm input, 1 Gate magnetic switch, 1 button, 1 case input, 1 anti-dismantle,
- Output interface: 1 open door relay & alarm relay
- Supports 100,000 card holders and 300,000 transactions

**DS-K1102M**
Card Reader

- Supports Mifare 1 card,
- With keypad (DS-K1102MK)
- Communication interface: RS485 and wiegand output, Anti-dismantle
- Suitable for 86-type & 120-type surface mounted back box

**DS-K2602**
Double Door Access Controller

- Reader Number: 2 Wiegand reader & 2 RS485 reader,
- Entry mode: Single-door & one direction, Single-door & bidirection,
- Input interface: 4 alarm input, 1 Gate magnetic switch, 1 button, 1 case input, 1 anti-dismantle,
- Output interface: 1 open door relay & alarm relay
- Supports 100,000 card holders and 300,000 transactions

**DS-K2604**
Four door Access Controller

- Reader Number: 4 Wiegand reader & 8 RS485 reader,
- Entry mode: Single-door & one direction, Single-door & bidirection,
- Input interface: 4 alarm input, 4 Gate magnetic switch, 8 button, 4 case input, 1 anti-dismantle,
- Output interface: 4 open door relay & alarm relay
- Supports 100,000 card holders and 300,000 transactions

**DS-K1104M**
Vandal Proof Card Reader

- Supports Mifare 1 card,
- With keypad (DS-K1104MK)
- Communication interface: RS485 and wiegand output, Anti-dismantle
- Suitable for 86-type & 120-type surface mounted back box
- Vandal Proof

**DS-K1101M**
Card Reader

- Supports Mifare 1 card,
- With keypad (DS-K1101MK)
- Communication interface: RS485 and wiegand output, Anti-dismantle
- Suitable for 120-type surface mounted back box
### Brackets, Housing

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<td>Pendant Mount</td>
<td>Wall Mount with Junction Box</td>
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### LENS

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<td>HV0733D-6MP</td>
<td>HV1140P-8MPIR</td>
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<td>8MP; 1/1.8&quot;, F0.95 Super Large Aperture 7-33mm Vari-focal, DC-Iris</td>
<td>8MP; IR Correction, 1/1.8&quot;, F1.5 11-40mm Vari-focal, P-Iris</td>
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<td>HV1140D-8MPIR</td>
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<td>8MP; IR Correction, 1/1.8&quot;, F1.5 3.8-16mm Vari-focal, P-Iris</td>
<td>8MP; IR Correction, 1/1.8&quot;, F1.5 11-40mm Vari-focal, DC-Iris</td>
<td>8MP; IR Correction, 1/1.8&quot;, F1.5 3.8-16mm Vari-focal, DC-Iris</td>
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