

DeepinView Camera V5.9.22 Release Note

Firmware Basic Information	Firmware Version	Multi-Intelligence Models: IPCG_OS_V5.9.22_250805 IPCG_OS_V5.9.22_250820 IPCG_OS_V5.9.22_250908 ANPR Models: IPCG_SAP_V5.9.22_250805 IPCG_SAP_V5.9.22_250820 IPCG_SAP_V5.9.22_250908
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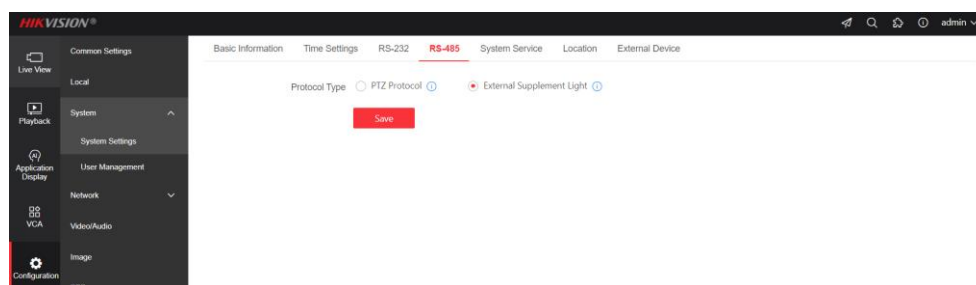
WARNING!!!

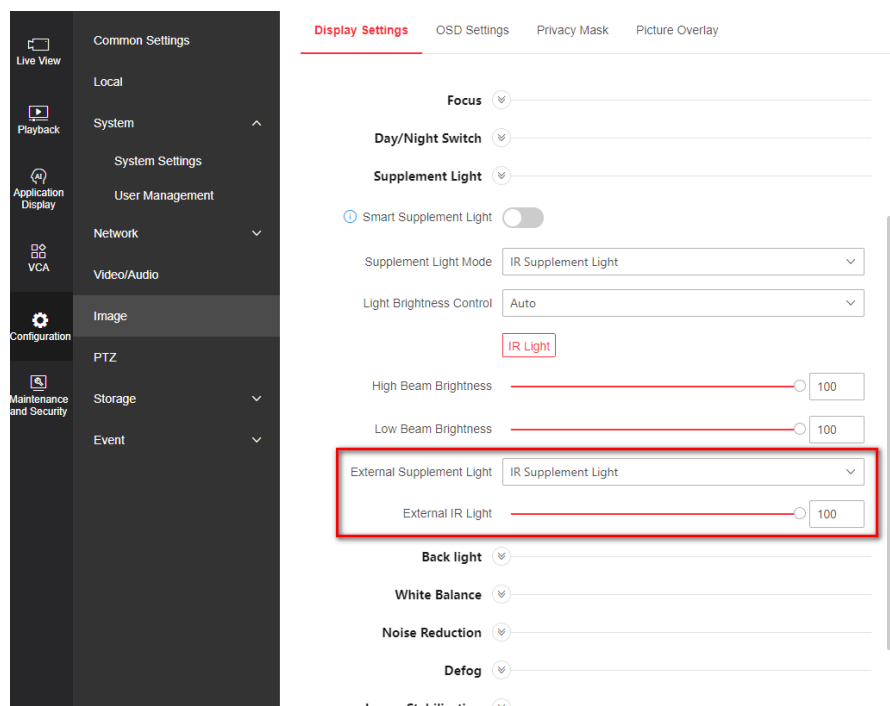
1. 75X6G2 cannot upgrade to this version. If an upgrade is required, please contact the HQ technical support team to obtain the firmware.
2. 75X7G2 below V5.9.22 need to upgrade the intermediate program before upgrading to version V5.9.22. Please contact the HQ technical support team.
3. Downgrading to earlier versions is not supported after upgrading to V5.9.22.

■ New Features

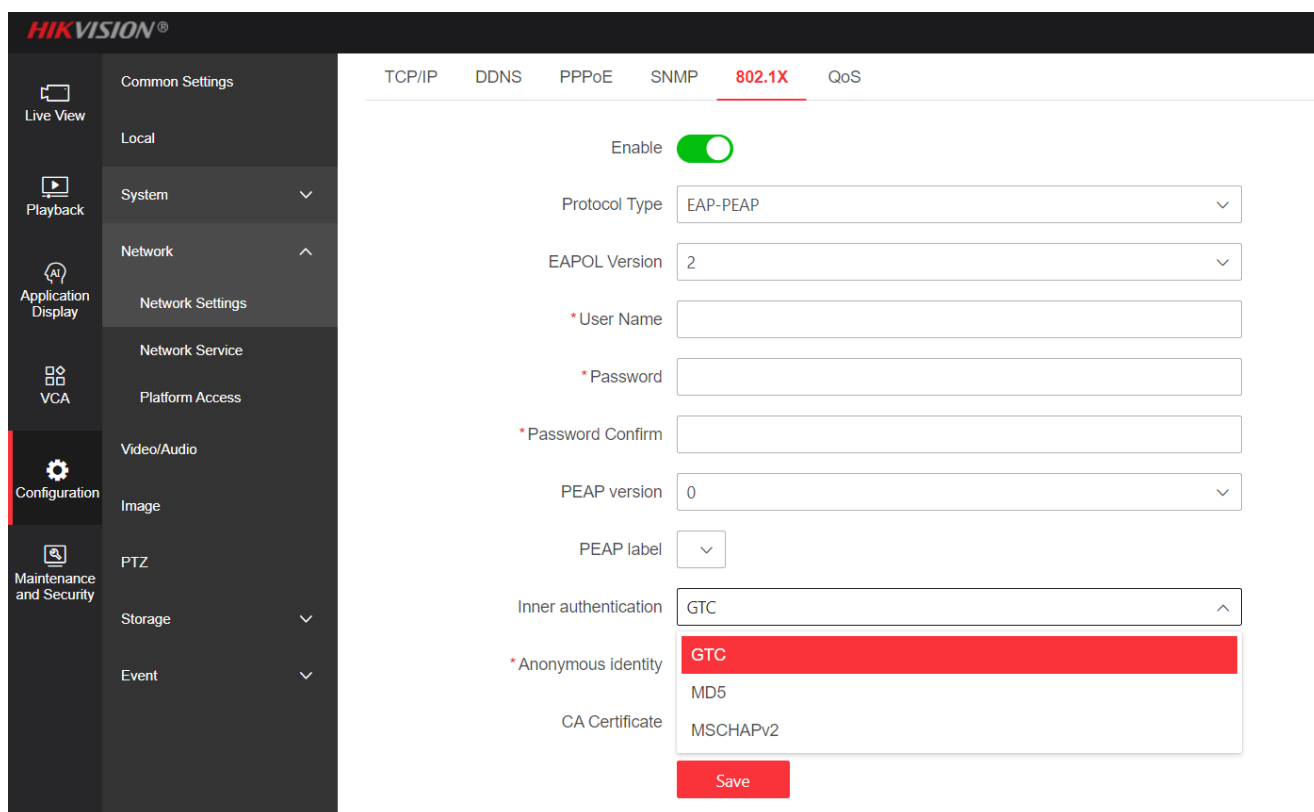
[General Function]

1. This version is compatible with all models released in versions V5.9.10, V5.9.20, and V5.9.21.
2. The model with an RS485 interface supports connect external supplemental light via 485.

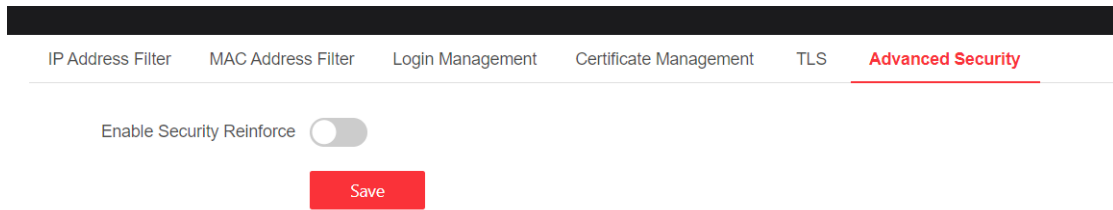




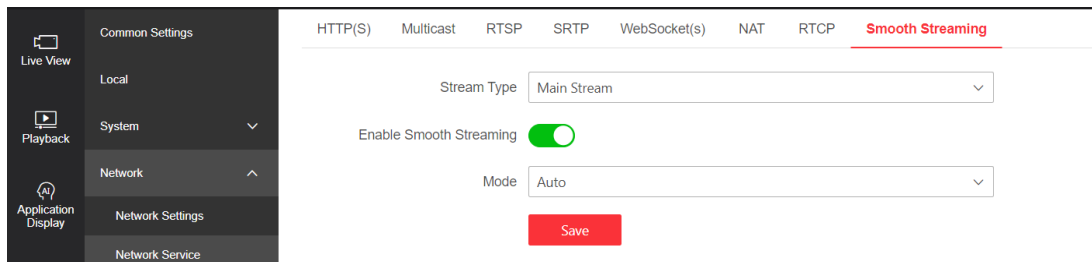
3. Newly released 4G models.
4. The 12MP model supports EIS, EPTZ, NTSC 30fps, and AI-ISP.
5. Support the 802.1x EAP-GTC and MSCHAP V2 protocols. 802.1x EAP 1.2 supports a maximum 32-bit key.



6. Support Common Criteria EAL3+ and EUCC certification.

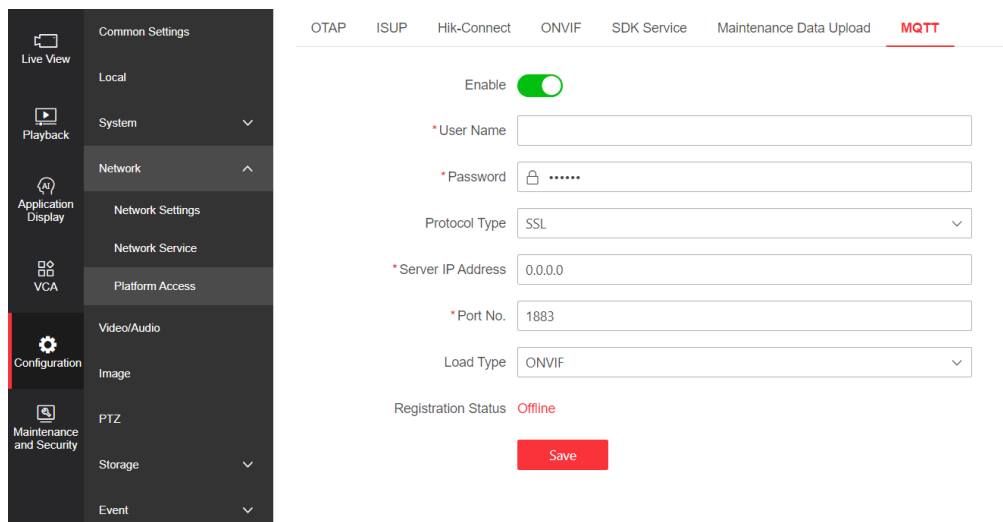


7. Support NPQ.



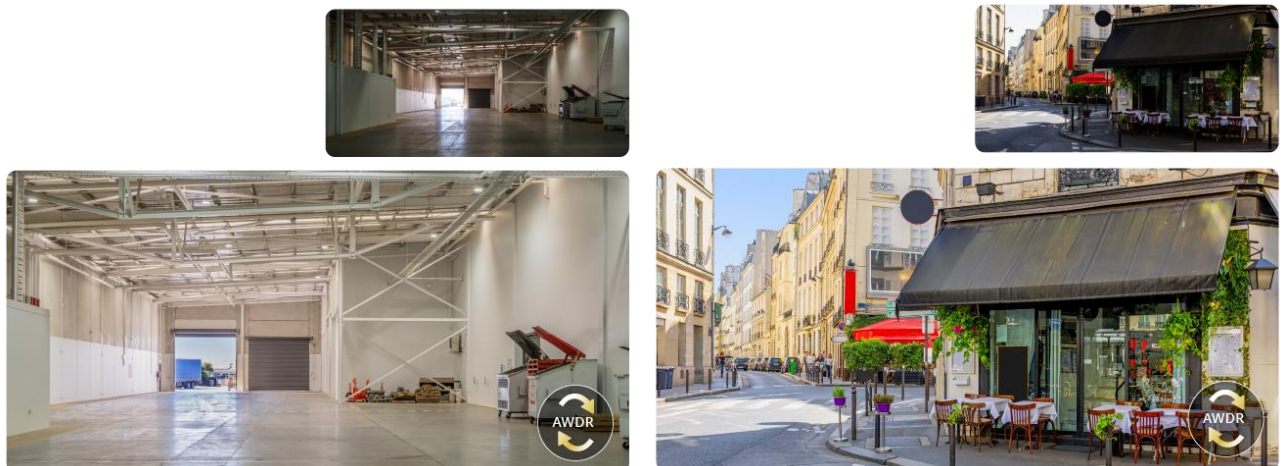
8. Support ShotN switching without reboot.

9. Support MQTTS.



10. Support ONVIF Profile and MQTT functionality expansion.

11. Improved the auto WDR effect.



12. Support issue facial picture via ISAPI protocol using binary data.

13. Support FTP image upload overwrite function.

The screenshot shows the configuration page for the Alarm Server, with the 'FTP' tab selected. The configuration options are as follows:

- FTP Protocol:** FTP
- * Server IP Address:** 0.0.0.0
- * Port No.:** 21
- Anonymous Login:** Disabled
- * User Name:** (empty field)
- * Password:** (empty field with a lock icon)
- Directory Structure:** Save in the root directory
- Upload Picture:** Enabled
- Picture Filing Interval (day(s)):** Off
- Picture Name:** Default
- Picture Overlay:** Enabled (highlighted with a red box)
- Enable Automatic Network Replenishment:** Enabled

A red 'Save' button is located at the bottom center of the configuration area.

14. The Alarm Server [HTTP listening] function upgraded.

- 1) HTTP custom request supports GET method with Digest authentication .
- 2) ANPR alarm supports heartbeat connection.
- 3) ANPR alarm add vehicle model, color, and brand fields to the HTTP listening protocol.
- 4) ANPR alarm can distinguish between real-time alarms and alarms transmitted after network disconnection and reconnection.

15. The PTRZ VR panoramic view supports a one-click function to adjust the PTRZ angle. When a position in the panoramic image is clicked, the device automatically rotates to the corresponding position.

16. Support Sound Classification detection, including crying sound, gunshots and explosion sound, scream, and glass break.

Crying Sound Detection ☐

Gunshot and Explosion Sound ☐

Scream Detection ☐

Glass Break Detection ☐

Sensitivity 50

Sound Intensity Threshold 50

Arming Schedule

Arming Schedule

Linkage Method

Send Email ☐

Notify Surveillance Center ☒

Trigger Alarm Output ☐ Select All
☐ A->1 ☐ A->2

Recording Linkage ☐ Select All
☐ A1

[VCA]

1. Upgrade the perimeter algorithm and support advanced configuration.

Advanced Configuration

Overlay **False Alarm Filtering**

Scene Mode ☒ General Scene ☐ Distant View

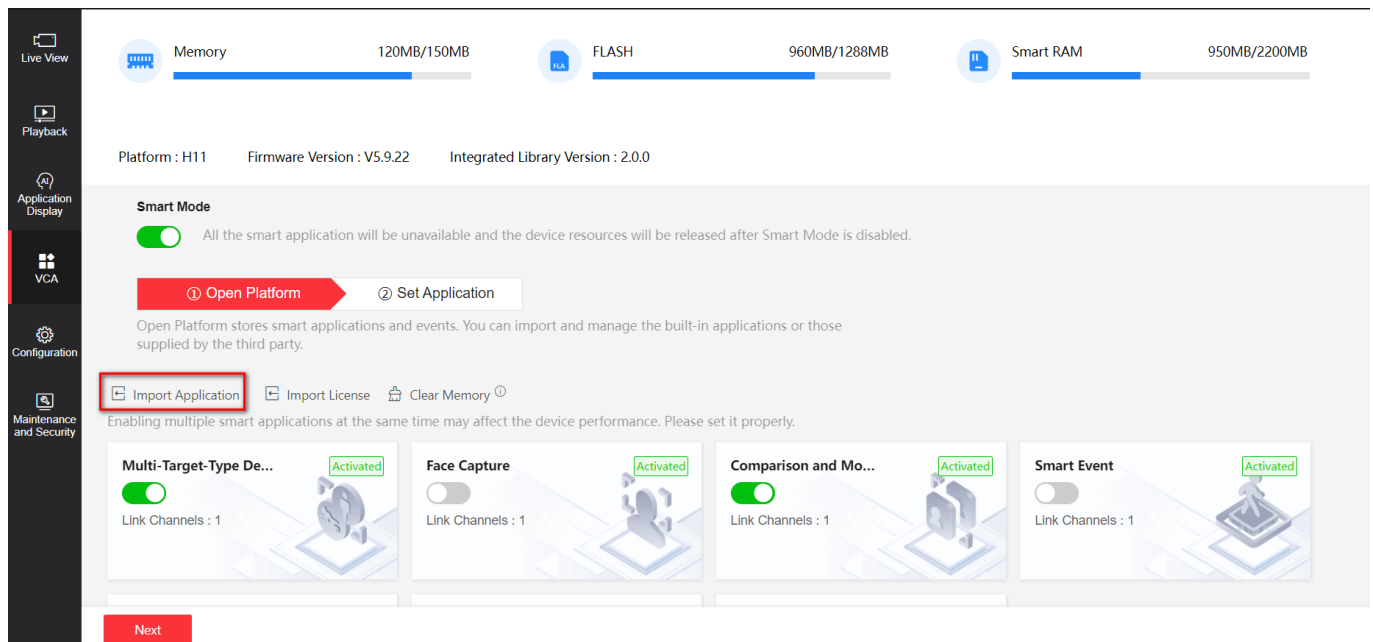
Filtering Intensity

Person(s) 50

Vehicle 50

2. Support HEOP. HEOP function enables technology partners to develop and run their own applications on Hikvision's hardware to suit the specific needs and unique installation scenarios

of customers. Support self-uninstallation, installation and upgrade of third party app.

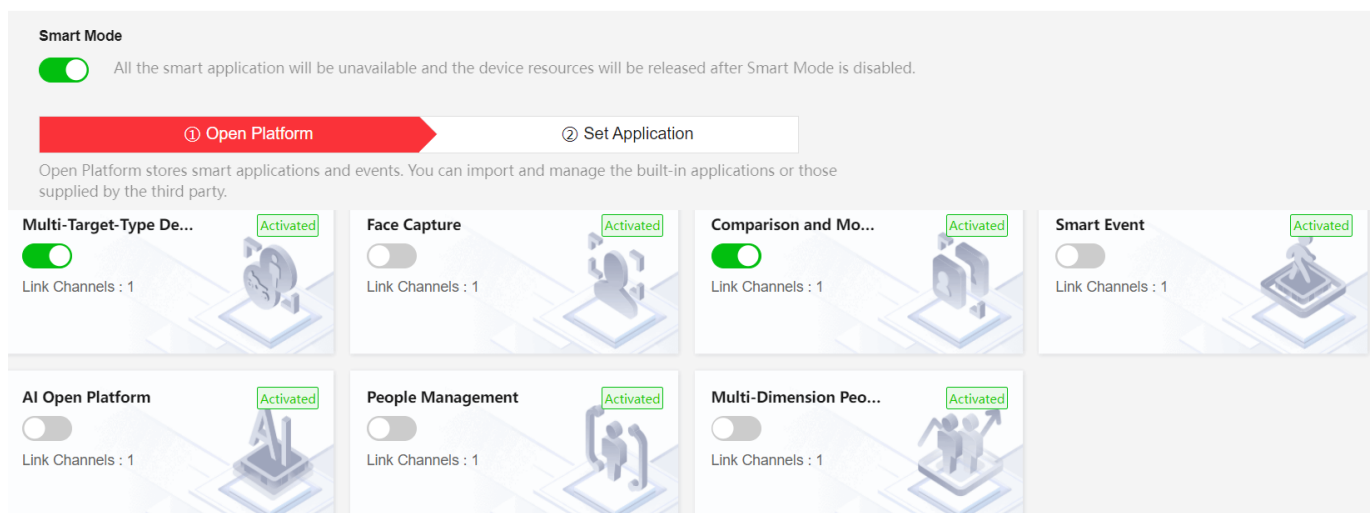


3. The intelligent APP adds resource version display, mainly including APP version, DSP version, and web version, to facilitate checking resource update status.
4. The VCA interface supports memory cleanup.

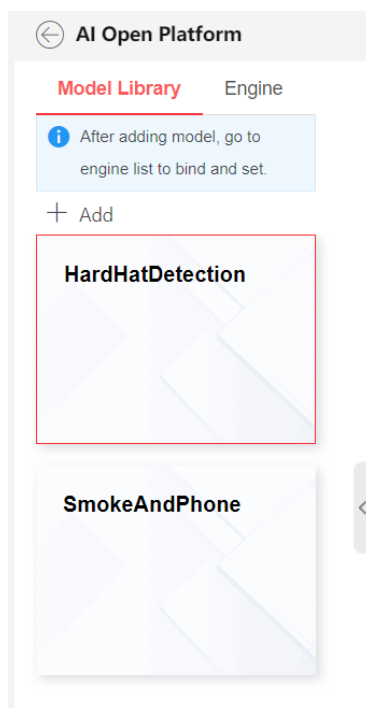
[IPC6_OS] Multi-Intelligence Models

1. **[Multi-Target-Type detection]** Multi-Target-Type detection mode supports vehicle license plate recognition.
2. **[Multi-Target-Type detection]** Support simultaneous enable of **Multi-Target-Type detection** and **Comparison and Modeling** modes.

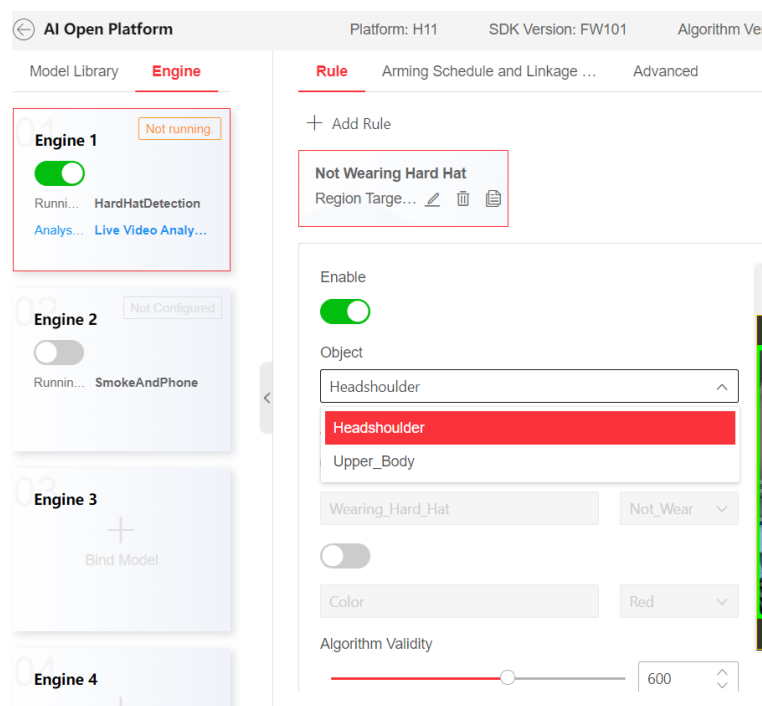
Platform : H11 Firmware Version : V5.9.22 Integrated Library Version : 2.0.0



3. **[AIOP]** Built-in smoking detection and phone model under the AIOP mode.



4. **[AIOP]** The built-in model of the Hardhat is upgraded, support the safety helmet + reflective vest detection.



5. **[AIOP]** Support image comparison and structured/unstructured OCR recognition

[IPCG_SAP]ANPR Models:

1. Support export license plate recognition report.

The screenshot displays the 'Picture' configuration page for 'Camera 01'. The left sidebar lists navigation options: Live View, Playback, Application Display, VCA, Configuration, and Maintenance and Security. The main configuration area includes the following fields:

- File Type:** Vehicle Detection (dropdown)
- License Plate No.:** (text input)
- Vehicle Type:** All (dropdown)
- Moving Direction:** Two-Way Direction (dropdown)
- Vehicle Color:** All (dropdown)
- Vehicle Brand:** (text input)
- Start Time:** 2025-08-12 00:00:00 (calendar icon)
- End Time:** 2025-08-12 23:59:59 (calendar icon)
- Buttons:** Search, Export

2. Newly add Parking Management VCA resource.

The screenshot displays the 'VCA' configuration page. The top bar shows system status: Memory (38MB/150MB), FLASH (190MB/1288MB), and Smart RAM (530MB/2200MB). The main panel includes the following sections:

- Platform:** H11, **Firmware Version:** V5.9.22, **Integrated Library Version:** 2.0.0
- Smart Mode:** Enabled (toggle switch). Note: All the smart application will be unavailable and the device resources will be released after Smart Mode is disabled.
- Open Platform:** Selected (red arrow button). Note: Open Platform stores smart applications and events. You can import and manage the built-in applications or those supplied by the third party.
- Actions:** Import Application, Import License, Clear Memory
- Warning:** Enabling multiple smart applications at the same time may affect the device performance. Please set it properly.
- Feature Toggles:**
 - Road Traffic:** Activated (toggle switch), Link Channels : 1
 - Smart Event:** Activated (toggle switch), Link Channels : 1
 - Parking Management:** Activated (toggle switch), Link Channels : 1 (highlighted with a red box)
- Next:** (red button)

■ Modify Features

V5.9.22_250805:

1. Fixed the issue of the camera continuously rebooting after Hik-Connect comes online.
2. **[ANPR]** Fixed the problem of category being repeatedly superimposed in front of license plate numbers, and fixed the problem of incorrect plate type recognition.

V5.9.22_280820:

Fixed the problem of abnormal tail light display on the box camera.

V5.9.22_280908:

Fix some known issues of image.

Customer Impact and Recommended Action

This update refers to function/compatibility improvement and will take effect automatically after the Date of Change.

We are very sorry for any inconvenience of use-habit changes caused by this action.

For any questions and request for this firmware, please contact our local technical support team.

Remarks:

- Hikvision reserves the right to change, alter or withdraw the above notification without prior notice.
- Product design and specifications are subject to change without prior notice.
- The Hikvision firmware may contain errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.
- Hikvision is not liable for any typing or printing errors.

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