

AX PRO

Version: V1.2.6

Release Note

(2022-04-18)

1. Firmware Basic Information

Firmware Basic Information	Firmware Version	V1.2.6_build220415
	Device Type	DS-PWA64-L-WE/WB DS-PWA96-M-WE/WB DS-PWA96-M2-WE/WB DS-PWA96-M2H-WE/WB

Notes:

1. Please update firmware to the latest version to ensure the perfect user experience.
2. For installers, it is recommended to install and maintain devices via Hik-ProConnect.

2. V1.2.6 Upgrade Note

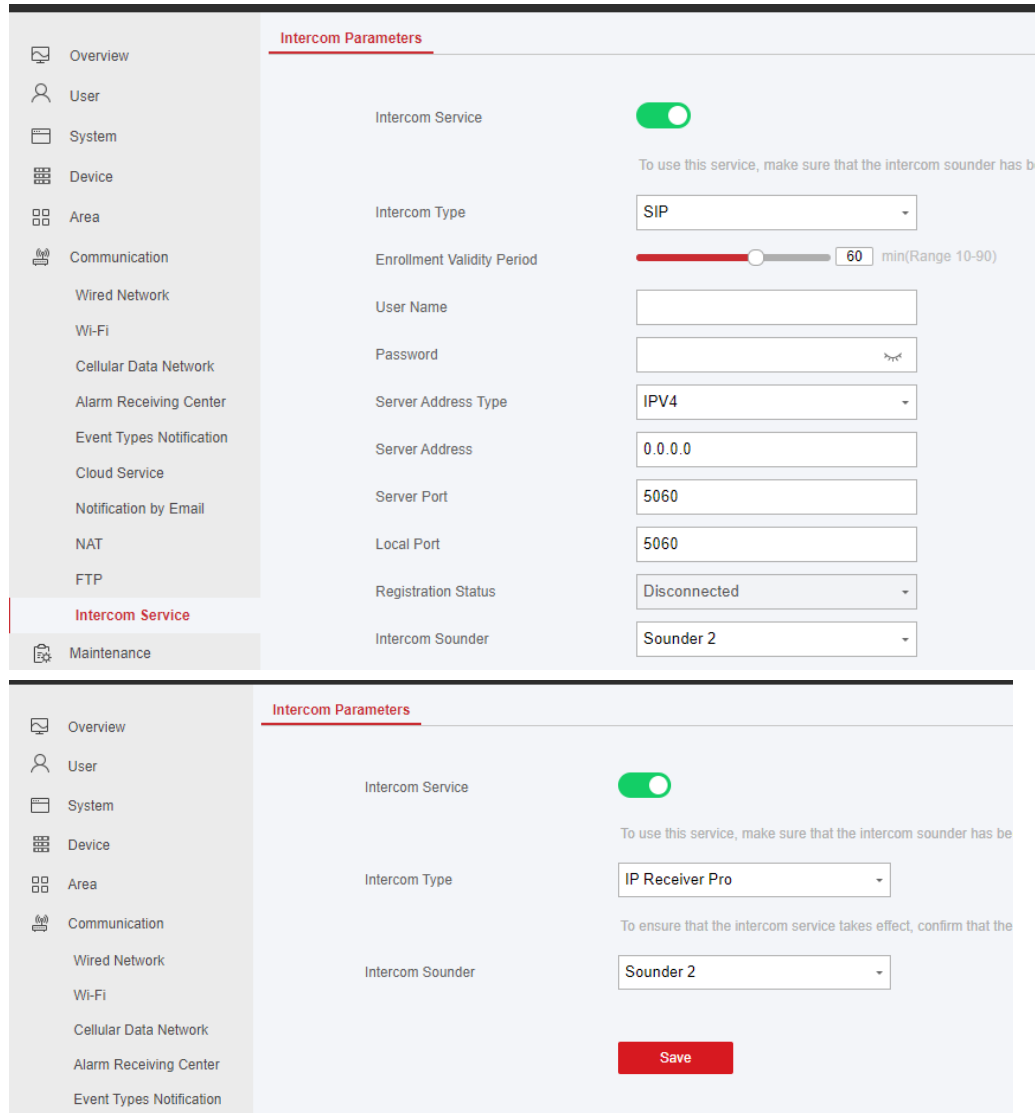
2.1 Added Function:

1) New peripherals: Wireless Intercom Sounder

1. The intercom voice data transmission is realized between the panel and the wireless intercom sounder through the CAM-X protocol
2. Added Intercom Service configuration page to the configuration interface of the panel web page. **a.** Enable Intercom Service, **b.** Intercom Type, **c.** Intercom Sounder Configuration. Only one intercom sounder can be selected and only one protocol type can be selected.
3. Intercom Type supports IPRP (IP receiver pro) or SIP.
When selected the SIP, can configuration the SIP Server address and port. The intercom server initiates the business of speaking or listening and the intercom

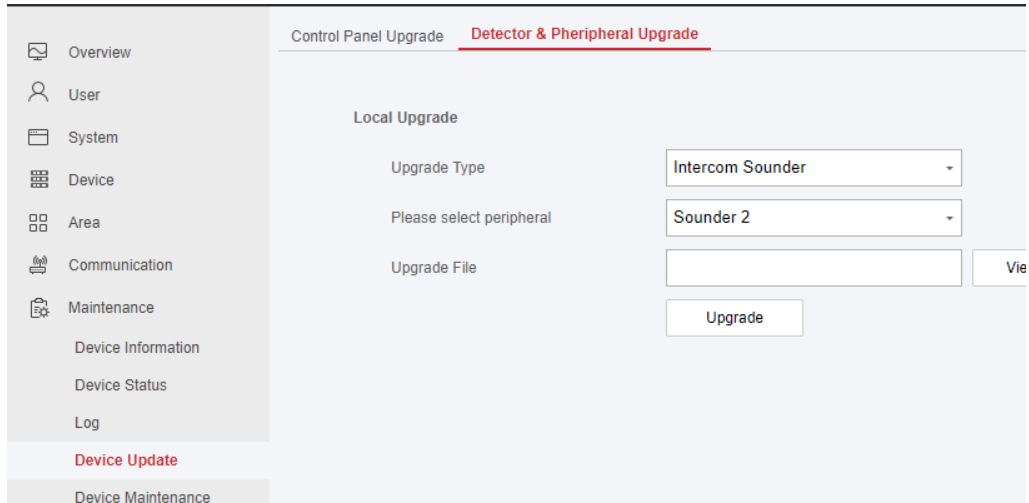
sounder through the SIP protocol to realize semiduplex voice intercom.

When selected the IPRP, The panel implements voice data interaction with the IPRP cloud through the EZVIZ SDK voice intercom interface. On the IPRP interface, you can initiate the start of the intercom, the switch between the listening and speaking, and the end of the intercom for each alarm.

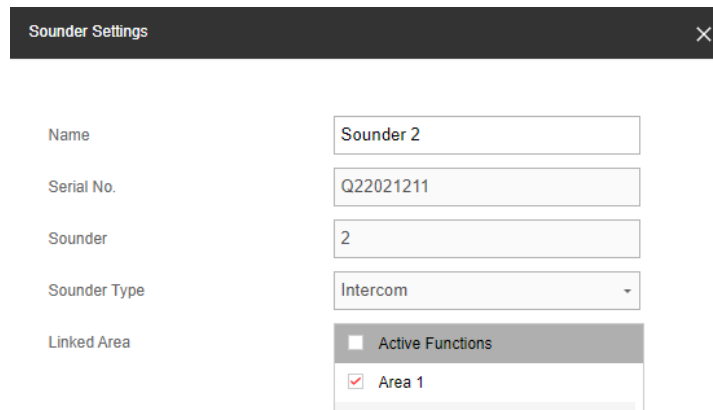


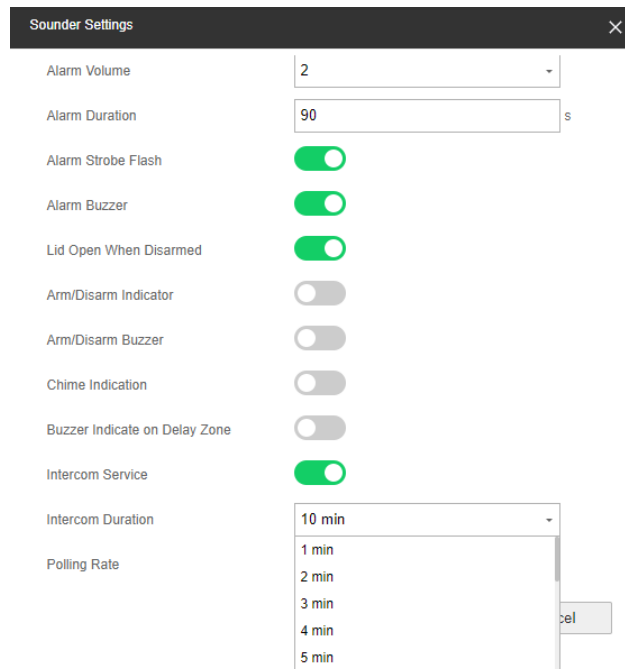
4. (1) After the alarm occurs, the sounder will output the alarm sound. If the platform initiates the intercom, the alarm sound output of the sounder will be stopped and the intercom mode will be entered; when there is no alarm, the intercom mode cannot be entered;
- (2) After entering the intercom mode, the platform can switch between listening and speaking, and the panel and sounder only perform corresponding actions, and make corresponding voice and LED prompts;

- (3) After the alarm, within the set time, the panel will enable the intercom permission. After the platform side initiates the intercom, the panel will automatically connect; after the time is exceeded, the panel will force the end of the intercom.
 - (4) Talk time can be configured from 1 to 15mins, the default is 10mins. (During the intercom, only arm and disarm, clear alarm, and other operations such as configuration are not allowed. During the intercom, the communication of CAM-X protocol is busy, and the picture will be lost when an alarm occurs, only to ensure that the alarm message isn't lost)
 - (5) The intercom duration of each alarm is the configured time, and the starting point of the calculation duration is the alarm occurs time
 - (6) The downlink voice of the platform and the uplink voice of the sounder are all forwarded by the panel, which is a real-time data stream without a retransmission mechanism.
 - (7) In the intercom configuration interface, only one intercom sounder can be configured. The intercom sounder can only be displayed and configured on the intercom configuration page when the intercom service is enabled.
 - (8) During the intercom, the intercom will not be interrupted after the operation is disarmed or the cleared alarm.
 - (9) The intercom function cannot be turned on when the battery voltage is not enough
5. The latest software version information can be viewed on the peripheral status interface, and the intercom siren can be upgraded through the web interface of the panel.



6. (1) Sounder type displayed “Intercom”; (2) Increase the Chime Indication function, enable the Chime Indication, when the doorbell zone is triggered, the intercom siren will sound a ding-dong doorbell. After disabled, it will not prompt; the Chime Indication is disabled by default; (3) Increase the Buzzer Indicate on Delay Zone function. Enable the Buzzer Indicate on Delay Zone configuration, when the panel enter/exit delay time, the sounder has a beeping countdown sound. After disabled, it will not prompt, the Buzzer Indicate on Delay Zone is disabled by default. (4) Increase Intercom Service. Enable the Intercom Service, the Intercom Duration can be displayed and configured. The intercom duration configuration range is 1min-15min. By default Intercom Service is enabled; (5) When an alarm occurs or when arming or disarming, the intercom sounder can be linked, and the linkage function is the same as that of the inter sounder.





2) New peripherals: Wireless LCD Keypad

(a) When the keypad online, the panel sends the all configuration information, status information, etc. to the keypad, and the subsequent panel configuration and status changes are applied when the keypad wakes up (the synchronized content is the panel's configuration information and status, The configuration of the keypad is not included. The configuration information of the keypad will be sent to the LCD keypad in real time.)

(b) The keypad requests synchronization language, the panel sends the corresponding keypad language package, and then synchronization panel and keypad language information.

(c) Support keypad swipe card arm and disarm function, swipe card arm and disarm including simple mode and standard mode. Simple mode: support away arming, stay arming, disarming, doesn't support selecting area and arming with faults confirmation; Standard mode: supporting away arming, stay arming, disarming, selecting area, arming with faults confirmation. By default, Simple Mode is enabled.

(d) The company name and contact phone number configuration are added to the LCD keypad configuration page of the web interface, which can only be configured by installer. The company name supports 0~24 bytes, supports the national language and English, and the web does not support the setting of all spaces; the contact number supports 0-24 bytes,

only numbers are supported;

(e) 1. Support keypad associated area configuration, or not associated with any areas (that is, the keypad is free and cannot be used)

2. Supports Function buttons (key operation) to enable or disable.

3. Supports Arm/Disarm Authority configuration, which can be configured to support only card operation, password operation, card or password operation, card and password operation; (Note: "card or password operation" refers to: card or password can be selected either way to operate independently Authorization can be completed; "card and password operation" means that authorization can be completed by operating both the card and the password.)

4. Supports Arming without password.

5. Supports input error password or swipe invalid card, keypad lock operation. Wireless keypad lock time, maximum number of attempts support configuration, support unlock operation.

6. Supports Backlight according to schedule.

7. Supports Backlight Brightness configuration.

8. Supports Silent Panic Alarm and Silent Medical Alarm configuration.

9. Supports Alarm Buzzer configuration.

10. Supports Buzzer configuration

11. Supports Active on Entry Delay configuration, if enabled, when the entry delay time is triggered, the linkage keypad will automatically wake up and light the button. If the user doesn't operate the keypad or there is no other event linkage the keypad, the keypad will automatically turn off when it reaches the sleep time.

12. After the keypad wakes up, the arm/disarm status indicator and the button backlight keep on and off in sync.

(f) The LCD keypad supports 8 languages: English, French, Spanish, Italian, Portuguese, German, Russian, and Ukrainian.

3) Peripherals support cloud upgrade

(a) The Hik-Connect upgrade interface adds an upgrade device selection box, and you can choose to upgrade the panel, peripherals, and detectors.

(b) Supports to upgrade the panel, peripherals, and detectors through Portal.

(c) The verification method of peripheral upgrade is consistent with the panel upgrade. (The admin user can directly operate the upgrade, and the PIN code authentication is required for the peripheral upgrade of HPC and Portal)

(d) When upgrading the key fob and portable emergency key, you need to press any key to wake up the device (in this case, the key pressed this time will only wake up the device, not trigger alarm and other functions), for portable emergency button the heartbeat and zone type configuration, you need to press any key to wake up the device after the configuration is issued. (in this case, the key pressed this time will only wake up the device, not trigger alarm and other functions); peripherals can't be upgraded when the battery is low, and can't be upgraded when the signal strength is weak (battery \geq 30%, signal strength is high); repeater can't forwarded the upgrade package data; if the peripheral upgrade fails to go offline, it is forbidden to delete the peripheral, you can restart the peripheral and then re-upgrade, and delete the peripheral after the upgrade fails, which may cause the peripheral to be unavailable;

(e) When the V1.2.6 version of the panel is released, the released version of the wireless LED keypad will be deployed on the cloud synchronously to upgrade the wireless LED keypad. Other peripherals and detector versions have not been deployed to the cloud at now. (Notes: The wireless LED keypad firmware is V1.1.0 or above to support wireless upgrade.)

4) Log remote export function

(a) After the customer's authorization, during the allowed authorization time, the serial port log and Web Log of the device can be uploaded to the cloud, and the technical support and R&D personnel can analyze the problem;

(b) HPC adds a device WEB log query page. After clicking the query, it obtains WEB log information from the device and displays it on the log interface.

(c) For devices that only use the cellular to access the cloud and have offline failures, real-time log cache collection is supported. After HC/HPC authorizes remote log collection, the log real-time cache function has a higher priority than the collection of ordinary module logs, the module log collection can't be used. And the real-time cache function is not

affected by the authorization time; the collected logs are only cached in the memory for 24 hours, and then they will be forcibly deleted.



5) The SIA report with cloud URL link

(a) When selected the ADM/SIA/CSV-IP protocol, added alarm review configuration on the ARC configured page.

(b) Enabled the alarm review configuration, after the PIRCAM video is reported to the cloud, the SDK protocol returns the URL link of the video.

(c) When the panel using ADM/SIA/CSV-IP protocol reports the video alarm message to the ARC, the URL address should be included in the additional field.

(d) After ARC receives the URL link, it can download the video corresponding to the alarm message in the browser, and use the player to view it. The alarm video can be stored in the cloud for a maximum of 7 days.

6) The SIA report with FTP URL link

(a) Enable the alarm review configuration, select the French alarm company in the Companies on the ARC configuration page, and enable the FTP server configuration

(b) The panel get an alarm event with video. After the alarm video is uploaded to the FTP, the URL of the storage path of the video on the FTP server is obtained.

(c) When the panel using ADM/SIA/CSV-IP protocol reports the video alarm message to the ARC, the URL address should be included in the additional field.

Companies	<input type="text" value="French Alarm Receiving Company"/>
PIRCAM Picture Upload Mode	<input type="text" value="Video"/>
HTTP Data Transmission	<input type="text" value="Default"/>
Intruder Verification as a Service	<input checked="" type="checkbox"/>

7) Added PSU power module

The newly added PSU power module, DS-PM2-D, adjusts the load current of the higher DC input voltage to the current of the lower voltage to supply power to the panel. The input voltage of the power module is 4~16v. It is compatible with three mainframes of AX PRO E/L/M.

8) Hik-Connect voice broadcast supports multi-language broadcast, a total of 25 languages

9) Newly added wall mounted emergency button

DS-PDEB1-EG2-WE(B)
DS-PDEB1-EG2-WE(B)
DS-PDEB2-EG2-WE(B)
DS-PDEB2-EG2-WE(B)
DS-PDEB1-EG2-WB(B)
DS-PDEB1-EG2-WB(B)
DS-PDEB2-EG2-WB(B)
DS-PDEB2-EG2-WB(B)

10)The SIA report added custom name information

When an alarm event is reported by the SIA protocol, the user-defined names of zone, peripherals, and areas need to be included. Only one name is attached to the same event; the format for adding the name is strictly in accordance with the SIA protocol specification.

11)Support upgrade package resuming during device upgrade

When a network disconnect occurs during the upgrade process, switch according to the order of LAN, Wi-Fi, and cellular. If they are abnormal, they will try to connect in turn, and it will automatically exit after 20 minutes (60 minutes for 2G network) if they aren't successful.

12)Supports Portal custom voice import

Supports import a custom voice file through Portal. If the alarm is associated, after the detector alarms, the voice call sequence is Common Voice + zone alarm.

13)Web logs adds abnormal offline record

It mainly includes the following logs: abnormal dial-up Internet access, abnormal phone calls, abnormal sending of messages, abnormal initialization, etc.

2. Feature Optimization:

1) Keypad Optimization

- (a) On the Hik-Connect/web interface, the keypad configuration page Buzzer Enable is changed to the Alarm Buzzer and Button Buzzer enable. The Alarm Buzzer controls the linkage alarm sound output, and the Button Buzzer controls the keypad key sound output. The two are at the same level and independent of each other. Both are enabled by default.
- (b) After the keypad wakes up, the arm/disarm status indicator and the button backlight keep on and off in sync.
- (c) After the V1.2.6 panel is connected to the new version (V1.5.0) led keypad, the Hik-Connect needs to be updated to the latest version (Hik-Connect 4.21.2, HPC 1.10.30) to display the new configuration items normally.

2) Hik-Connect function Optimization

(a) When triggered the emergency button alarm on the Hik-Connect, two modes of sound and silent can be selected. When the Audible Panic Alarm mode is selected: trigger a one-key alarm, the panel will push the alarm message, and at the same time, the Hik-Connect, panel and sounder are audible alarms; when the Silent Panic Alarm mode is selected, the panel will push the alarm message, Hik-Connect, the panel and the sounder are silent.

(b) Installer user permission extension

(1) Installer user supports adding and deleting local users, setting the user's initial keypad password and duress code, associated areas and remote configuration permissions.

(2) The installer user and the admin can mutually edit the configuration parameters of the local user they created.

(3) Installer users support adding tags, key fobs and assigning them to specified users, and also can modify the configuration.

(c) After the panel is hosted by the installer user, when uses the admin user to log in web interface, the volume of the panel and the volume of the sounder can be displayed and configured.

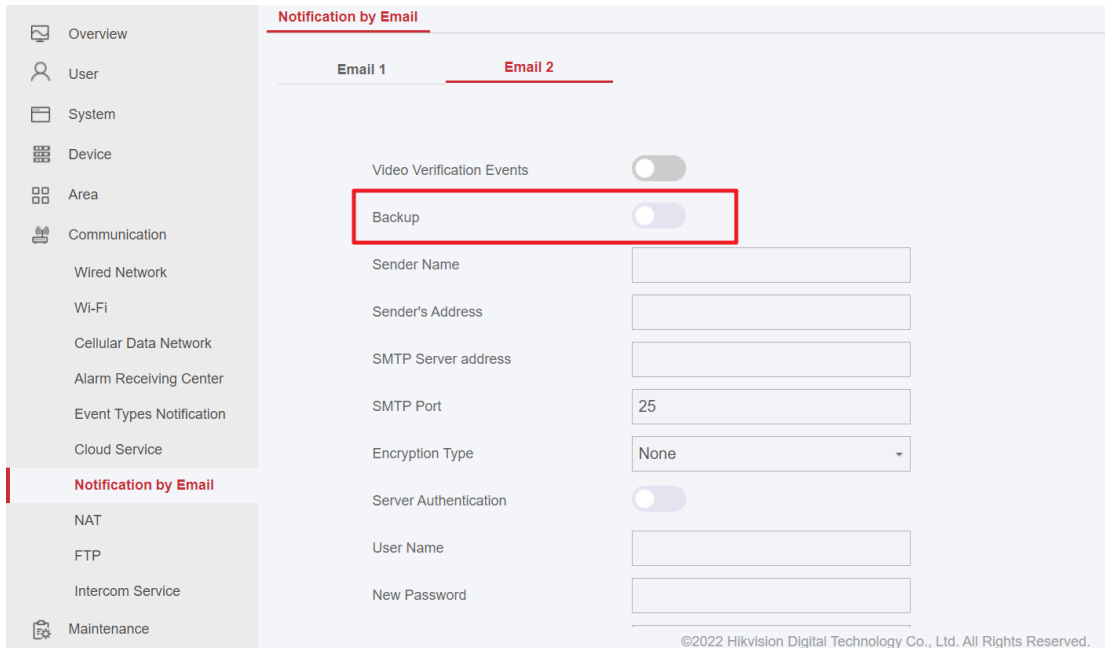
(d) Hik-Connect switching WIFI mechanism optimization, (1) After the panel detects that EZVIZ cloud is online, if the panel is in AP mode, it will be forced to switch to station mode. If it is manually switched to AP mode, the panel will automatically force to switch to station mode after 3 minutes; (2) Select any hotspot in the list and enter the corresponding hotspot password to switch WiFi hotspots. If the selected hotspot connection fails, the panel automatically switches back to the original hotspot. When the admin users don't have remote configuration authority, the hotspot can't be configured. If the device only uses wifi to connect to the EZVIZ cloud, the switching process will be accompanied by a short-term offline from the cloud. The Hik-Connect and panel can't communicate during offline, which will cause the Hik-Connect page status to update delay.

3) Optimization of exit delay process

The delay zone associated with PIR type detectors, when arming with the arm with faults enabled, during the arming exit delay time, the panel ignores its trigger information and doesn't make any records and status marks, to avoid arming failed because the detector is in the triggering status at the last 4s of the countdown.

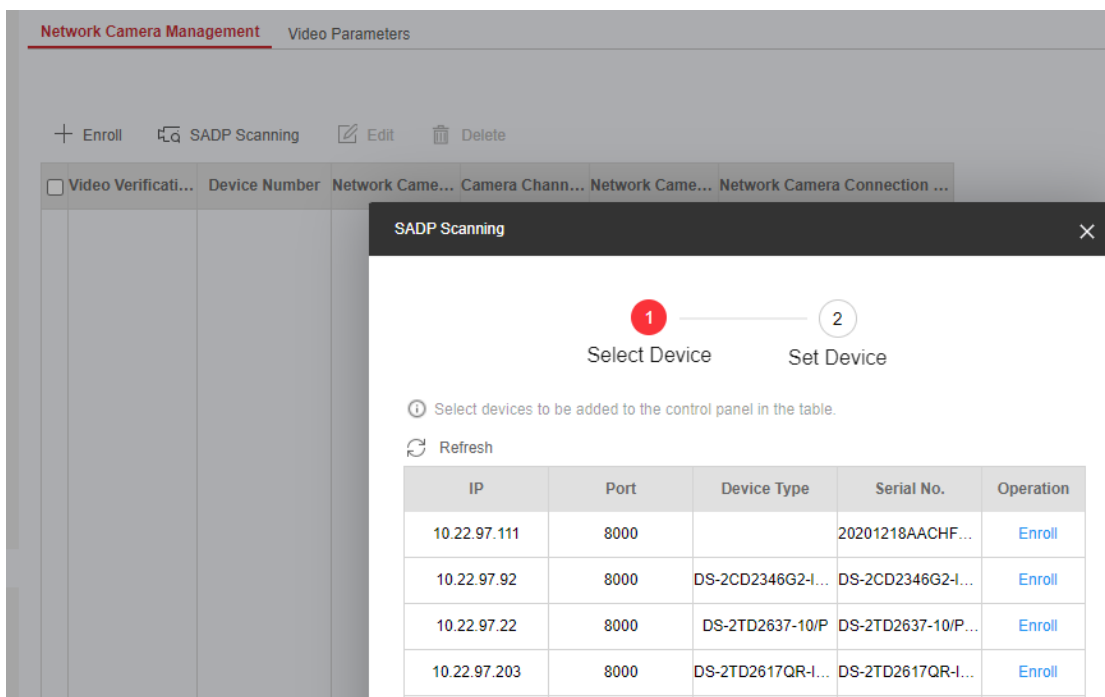
4) Notification by Email function optimization

The Notification by Email function is extended to two mailboxes, and it can be mainly, or it can be configured as a host-back relationship; when the configuration is mainly, the video review picture or video is also pushed to two mailboxes; when configured as a host, only the host box push failure will push the backup mailbox, Mailbox 2 Configuration Page add the Backup enable item, enable it the mailbox 2 for the backup mailbox. It is not enabled by default.



5) Network Camera add optimization

New add SADP scan add network camera, after selecting SADP add, the panel scans the IPC device under the same network segment and displayed in the scan list of the interface, selecting an IPC in the list to add, fill in the protocol type, username, and password to complete the addition in the pop-up dialog box.



6) Multi-alarm input detector function optimization

- (a) Enables each of the input will create an input zone, each input zone is independent of each other with the corresponding body detector zone. Alarms, faults and other

events generated by each input of the detector are reported through the corresponding Input zone. The default zone type of the input zone is the instant zone, the default name Wired Zone X. Direct deletion is not supported after the input zone extension, controlling by the enable item of its body zone.

- (b) When the Hik-Connect displays the input of the detector, there is a separate icon, which is presented according to the wired zone under the multi-transmitter. When the input zone detector type is configured as door contact, the zone status page can display the door open icon
- (c) When the panel is upgraded from a lower version program to V1.2.6, if the input zone has been enabled, the corresponding wired zone will be automatically expanded, and the number of zones of the panel will increase accordingly;
- (d) The old version of the Hik-Connect configures the expanded input zone, the connection mode and pulse sensitivity configuration items will be displayed but there are no parameters, which can be configured on the zone configuration page after upgrading the Hik-Connect;

Device	Zone	Device Number	Name	Main Device	Channel No	Device Types	Silent Alarm
Zone	2	1	BG 2	/	/	Instant	Disable
Sounder	3	1	PIR 3	/	/	Instant	Disable
Keypad	4	1	MCK 4	/	/	Instant	Disable
Tag Reader	5	1	MC 5	/	/	Instant	Disable
Keyfob	6	1	SLIM MC 6	/	/	Instant	Disable
Tag	7	3	Wired Zone 7	EMC 1	1	Instant	Disable
Automation	8	4	Wired Zone 8	EMC 1	2	Instant	Disable
Repeater	9	5	Wired Zone 9	BG 2	1	Instant	Disable
Transmitter	10	6	Wired Zone 10	BG 2	2	Instant	Disable
Network Camera	11	7	Wired Zone 11	MCK 4	1	Instant	Disable
Area	12	8	Wired Zone 12	MCK 4	2	Instant	Disable
Communication	13	9	Wired Zone 13	MC 5	1	Instant	Disable
Maintenance							

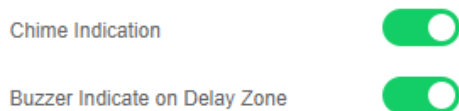
7) Sounder delay zone prompt optimization

The Buzzer Indicate on Delay Zone configuration item has been added to the internal and outdoor sounder configuration pages of the Hik-Connect or Web interface. When enabled, the sounder has a beeping countdown sound when the panel enters/exit delays. When disabled, there is no countdown sound, it disabled by default. The Buzzer Indicate

on Delay Zone configuration will not take effect until the Alarm Buzzer is enabled. (The sounder firmware is V1.1.0 or above to support this function, the configuration of the old version is invalid)

8) Sounder supports chime function

The Chime Indication enable item has been added to the internal sounder configuration page. When enabled, when the chime zone is triggered, the sounder will sound a ding-dong doorbell. When disabled, it will not prompt. It disabled by default. (The sounder firmware is V1.1.0 or above to support this function, the configuration of the old version is invalid)

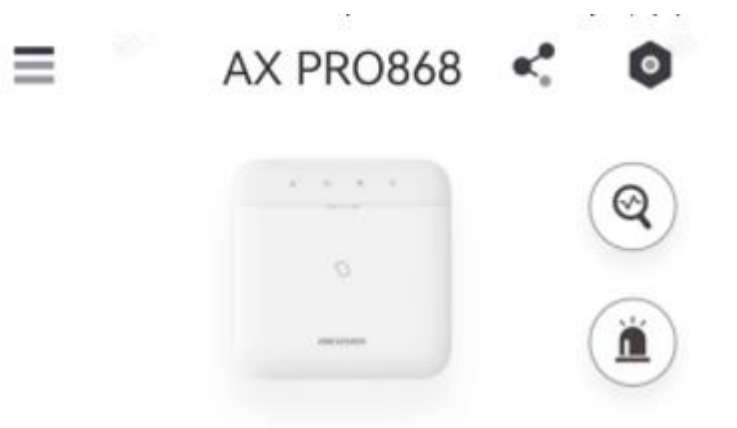


9) Repeater function optimization

The repeater supports the alarm and picture data forwarding of Outdoor PIRCAM and PIRCAM; Outdoor PIRCAM and RX detector share the RX device capability set, supporting a maximum of 48 RX devices, and the repeater supports a maximum of 8 RX devices for forwarding

10) Hik-Connect interaction optimization

(a) Icon modification: modify the "Panic Button" and "Query Faults" icons



(b) Hik-Connect alarm picture receiving progress display: The Hik-Connect automatically refreshes the picture or video within the approximate waiting time for uploading the picture or video, and the picture or video content is refreshed to display normally. If the picture or video content is not refreshed, the loading fails.

11) Hik-Connect notifications color optimization

Alarm (red): All alarm, offline, power, tamper, etc.

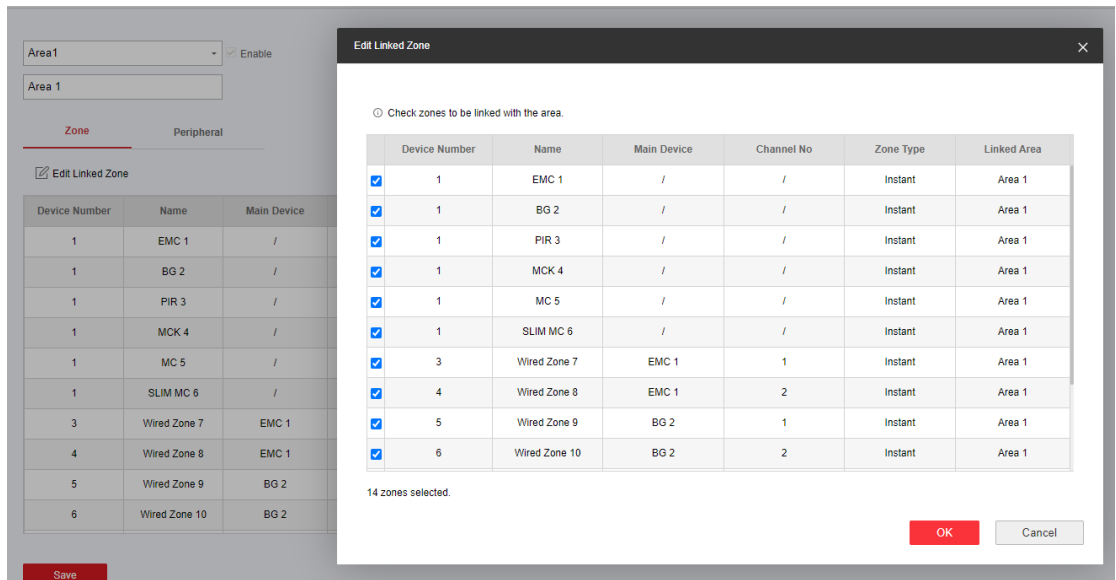
Restore (grey): All restore, restore alarm, disconnection restore, tamper restore, etc.

Operation (green): arming, disarming, clearing alarm, etc.

Fault (orange): system faults including the faults in panel fault check

12) Optimize the way of adding devices

(a) Configured areas optimization: On the area page of Hik-Connect/Web interface, the operation entry of the associated zone and peripheral device has been added. Through this entry you can associated with zones and peripherals to this area, you can also cancel the association of zones and peripherals with this area.



(b) Hik-Connect scanning code to add device optimization: After adding a device by scanning code/serial number, the Hik-Connect directly jumps to the device configuration interface, which is convenient for installers to configure quickly.

13) Admin opens the following permissions in the area

Late to Disarm;

Auto Arming Sound Prompt;

Weekend Exception;

Excepted Holiday;

Holiday Settings;

14)Health detection optimization

For peripherals with external power supply and battery, add the battery missing/battery connection normal status, and Hik-Proconnect will show this status in the health check result.

15)Fault prompt optimization

Added multiple transmitter 12V output short-circuit faults in the panel fault prompt page

16)IPC smart alarm events reporting optimization

When the IPC smart alarm event is reported, add the area number and area name.

17)Detector and peripheral status display optimization

- (a) For detectors and peripherals (wireless multiple transmitters, wireless repeaters) with external power supplies and batteries, the battery disconnected status displayed as Disconnect.
- (b) When the single- transmitter and multi-transmitter are disarmed, the display of the detector status is from Break/Normal changed to Triggered/Normal.

The outdoor sounder connected to V1.2.5 and the intercom sounder connected to V1.2.6, the external power disconnection fault isn't displayed in the fault list and arming with faults list.

18)One-key arming and disarming optimization for multiple areas

When multiple areas are armed, disarmed, and cleared alarm with one-key, the panel reporting to ARC and ISUP one by one, but when reporting to EZVIZ, only one message (including each areas information) is reported, and only one message is displayed on the Hik-Connect; After IPRP receives the multiple areas arming, disarming, and clearing alarm messages from Hik-ProConnect, it needs to be split into multiple messages and reported to ARC one by one.

19) Upgrade reset device name optimization

When through the Hik-Connect/Web interface is upgraded in the same language or the language is switched, the pop-up box prompting whether to reset Device/Area Name is removed, and the Device/Area name modified by the user is directly used by default when the panel is upgraded.

20)Door magnetic detector supports zone type optimization

All door magnetic detectors support configuration as timeout zone

21) Public zone logic optimization

- (a) Allows delay zone to associate multiple areas to become public zone. When it becomes a public zone, the arming mode only can be set to and mode.
- (b) If the arming action can't arm the public zone, the fault detection of arming will not detect the fault of this public zone.
- (c) When the public zone is triggered in the armed status, the other areas associated with it are armed and the public zone will not be bypassed.
- (d) If a public zone is bypassed while the system is armed, only when the zone is in the disarmed status, it will bypass restore.
- (e) When enable arming with fault function, it is necessary to give priority to the arming configuration item when judging whether to arm with a public zone fault.

Public zone isn't support pre-alarm function.

22)Add custom name collision detection

The modification of zone and peripheral name isn't allowed to have duplicate names, and it is not allowed to modify the name according to the default naming format.

23)Fixed the bug that the device number is incorrectly assigned when the 1.2.4 and previous versions are upgraded to 1.2.6

24)Fixed the bug of PIRCAM image loss by improving Cam-X protocol transmission

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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