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Release Notes

1.1 OverView

Item	Description
Product name	Network Video Recorder
Firmware Basic Information	Kernel Version DVRS_V14.7.30.20260103 UI Version GUI_V14.7.0.20260103 Web Version 7.2.25.1227 Algorithm Version ALGO_V2.1.0.20251227.48471 Smart Module Version 1.2.0_20251120 Facial recognition model version 7be8 Algorithm Model Version F44569V47781U47862P39955L48468 CGI Version CGI_V3.3.0.20251229 ONVIF Version V24.06.251228.5B8930C5 P2P Version V3.1.1.20251227.0DB18FD1 RTSP Version V1.2.15.251111.DCF73C0C APP Version V4.6.0.251119.A597C7EA
Related product	TC-R3240 4HB TC-R3440 4HB TC-R3440 4MB TC-R3440 416HB TC-R3880 4HB TC-R3840 4HB TC-R3840 SPEC:I/B/N/V4.0 TC-R3880 SPEC:I/B/N/V4.0 TC-R31640 SPEC:E/B/N/V4.3 TC-R31680 SPEC:E/B/R/N/V4.3 TC-R324160 SPEC:E/B/R/N/V4.1 TC-R324160 SPEC:E/B/R/N/V4.0 TC-R324160 SPEC:E/B/N/V4.0 TC-R324160 SPEC:E/B/N/V4.1 TC-R3440 SPEC:I/B/P16/H/V4.0 TC-R3440 SPEC:I/B/N/H/C/V4.0 TC-R3240 SPEC:I/B/N/H/V4.0 TC-R3440 SPEC:I/B/N/V4.0 TC-R3240 SPEC:I/B/N/H/V4.1 TC-R3440 SPEC:I/B/N/H/C/V4.1 TC-R3440 SPEC:I/B/P16/H/V4.1 TC-R3440 SPEC:I/B/N/V4.1

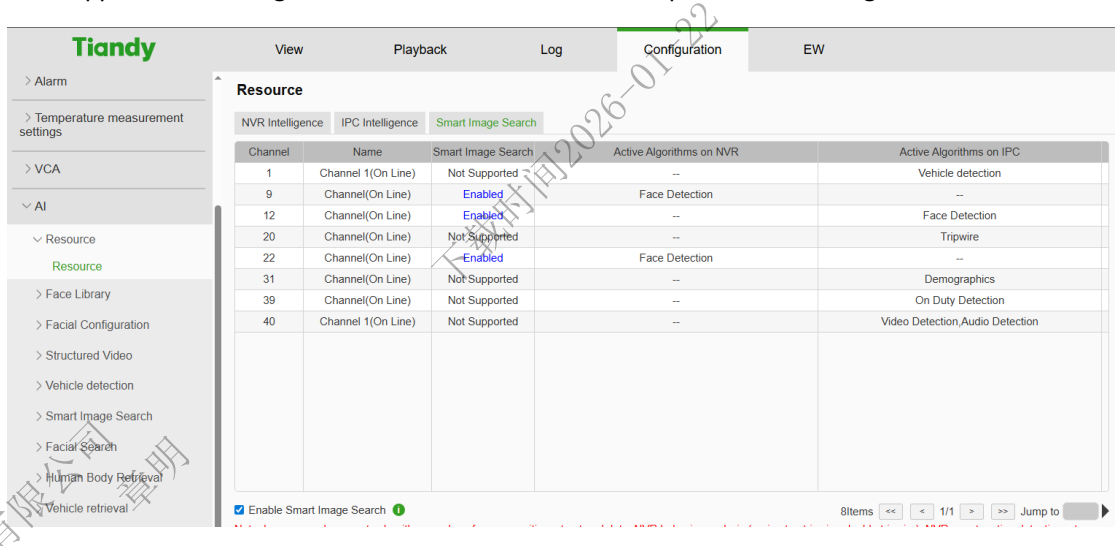
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1.2 Reason of Upgrade

Fix known defects and optimize product performance.

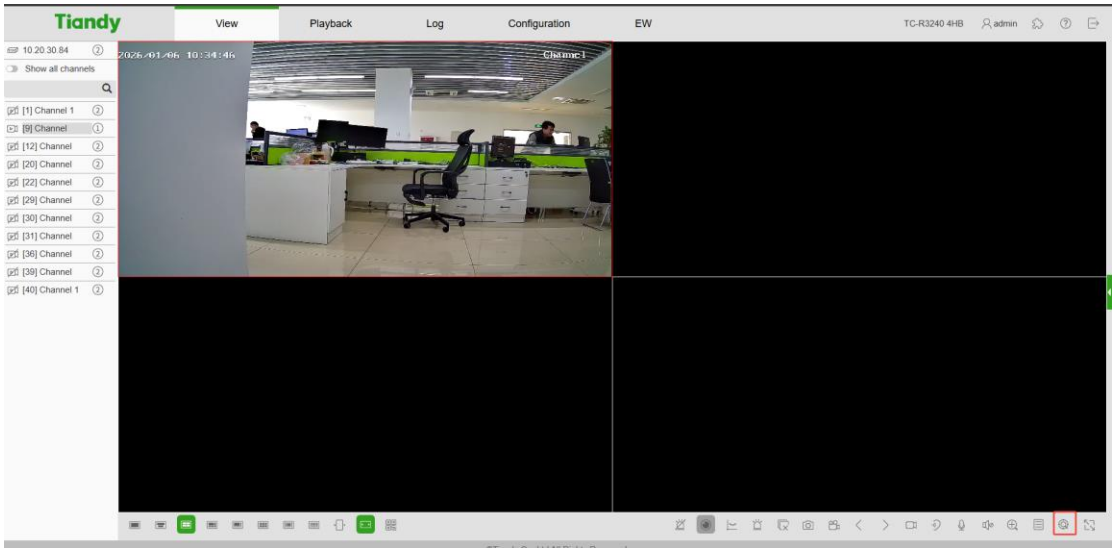
1.2.1 New Features

1. Decoding Capacity Upgrade:
The NVR models listed below now support up to 32 channels of 1080P decoding.
For specific model details, please refer to the product datasheet.
TC-R3240 4HB
TC-R3440 4HB
TC-R3440 4MB
TC-R3440 416HB
TC-R3880 4HB
TC-R3840 4HB
TC-R3840 SPEC:I/B/N/V4.0
TC-R3880 SPEC:I/B/N/V4.0
TC-R31640 SPEC:E/B/N/V4.3
TC-R31680 SPEC:E/B/R/N/V4.3
TC-R324160 SPEC:E/B/R/N/V4.1
TC-R324160 SPEC:E/B/R/N/V4.0
TC-R324160 SPEC:E/B/N/V4.0
TC-R324160 SPEC:E/B/N/V4.1
2. WisePick Added for AI NVR: Enables detection of faces and persons in live view, playback, and search results, with the ability to select specific targets for retrieval, enhancing search efficiency.
(1) The Smart Image Search function of the NVR may be enabled or disabled via the web or UI interface. Enabling this function will permanently allocate a certain amount of computational resources, thereby reducing the number of channels available for other algorithms. The function also supports controlling the activation status of channel-specific smart image search.



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(2) By clicking the icon  in the preview, playback, or search result interface on WEB or UI, users can access the Smart Image Search function interface.

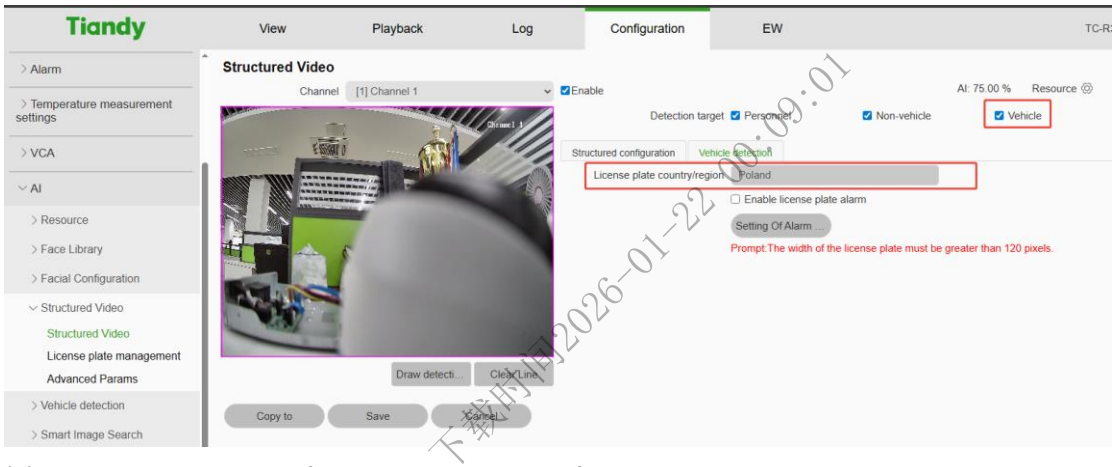


3. The NVR's video structuring algorithm incorporates vehicle detection functionality and supports number plate recognition for specific regions, including PJ, HM, South Africa, Poland, Turkey, France, Mexico, Vietnam, Palestine, Israel, and the United Arab Emirates. Search results permit retrieval by attribute and number plate.

Camera Installation Requirements for Enabling License Plate Recognition Algorithm:

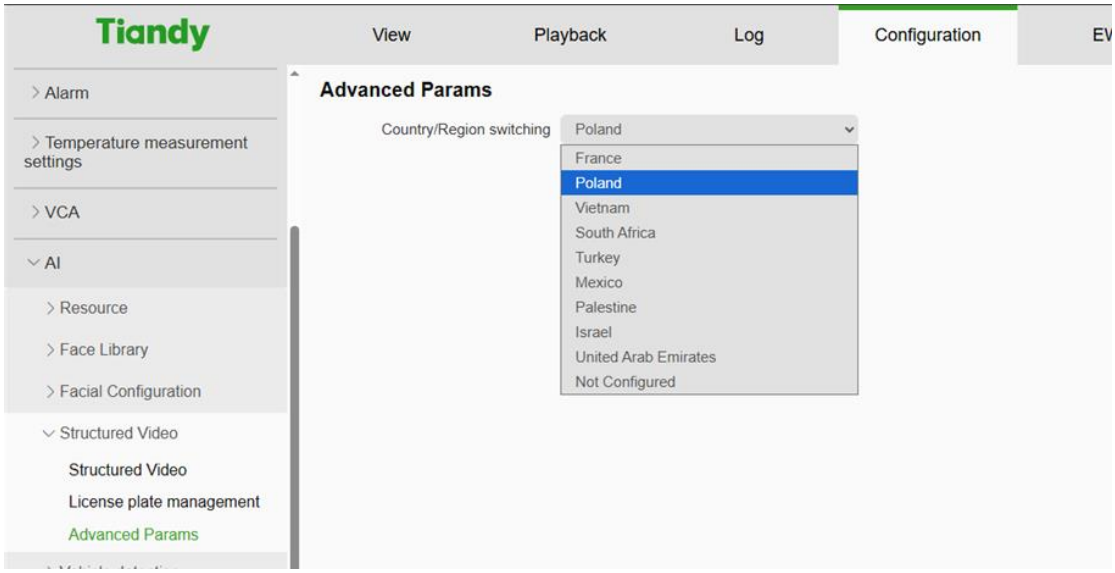
At 1080p resolution, the license plate must exceed 120 pixels in size, with a horizontal angle and pitch angle each less than 45 degrees relative to the camera. The plate must be clearly visible and unobstructed.

(1) Parameter Settings Interface.



(2) As shown in the interface below, you can configure the vehicle number plate recognition region for the NVR.

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4. **LPR Camera Management Added**: Supports configuration of LPR cameras to receive vehicle and license plate data, with search functionality by attributes or plate number.

The models of fully compatible LPR cameras are as follows:

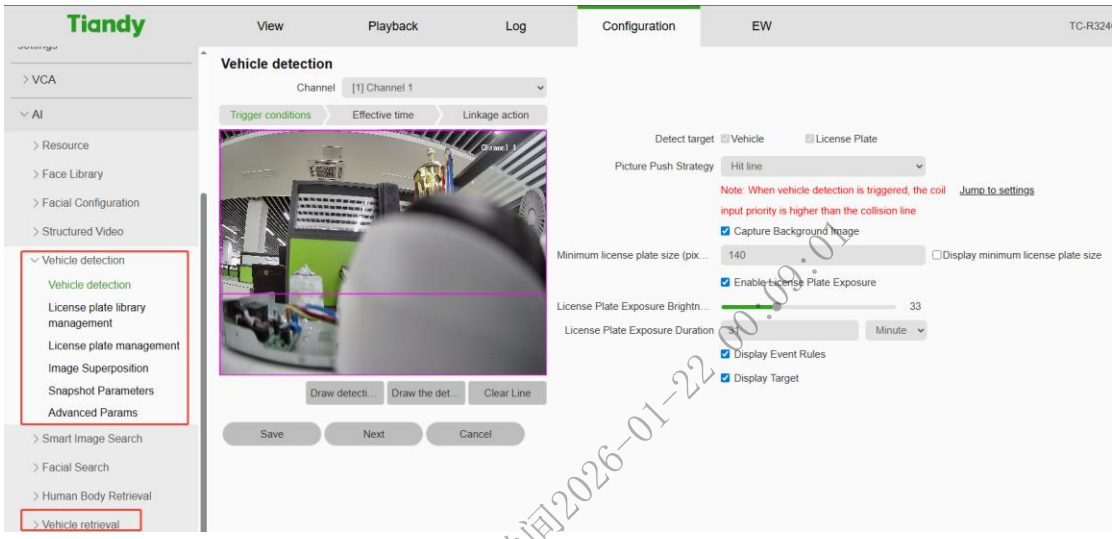
1D.20010.023069 TC-C34LQ SPEC:LK/I3W/A/E/Y/M/S/H/LPR/8-32mm

1D.20010.022127 TC-C34LQ SPEC:LK/I3W/A/E/Y/M/S/H/LPR/2.8-12mm

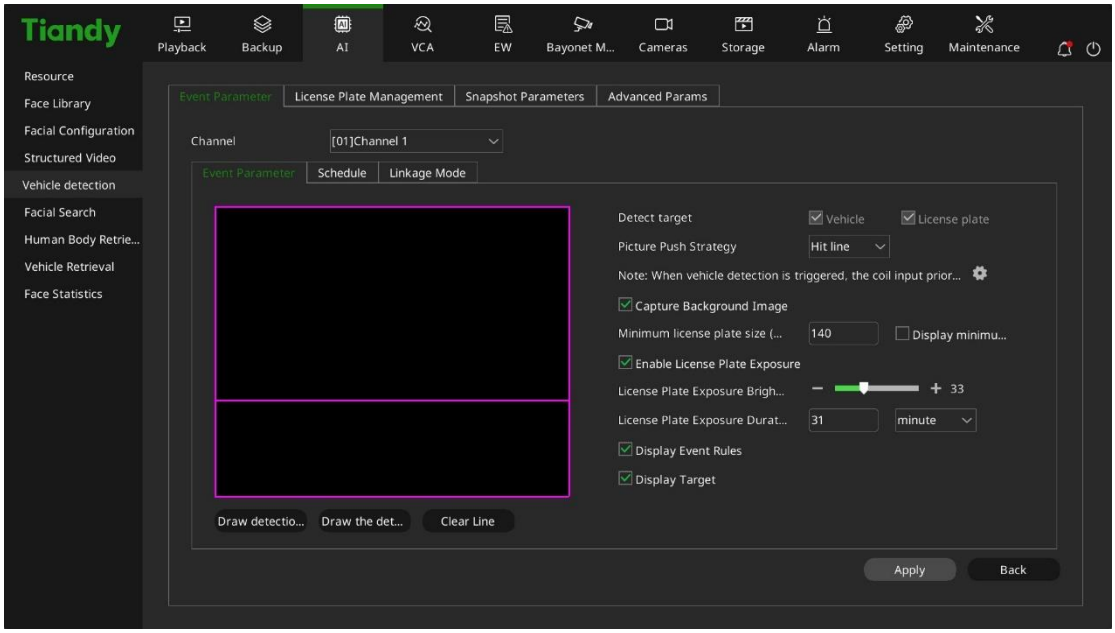
1D.20010.022128 TC-C34LQ SPEC:LK/I3W/A/E/Y/M/S/H/LPR/8-32mm

1D.20010.022125 TC-C34LQ SPEC:LK/I3W/A/E/Y/M/S/H/LPR/2.8-12mm

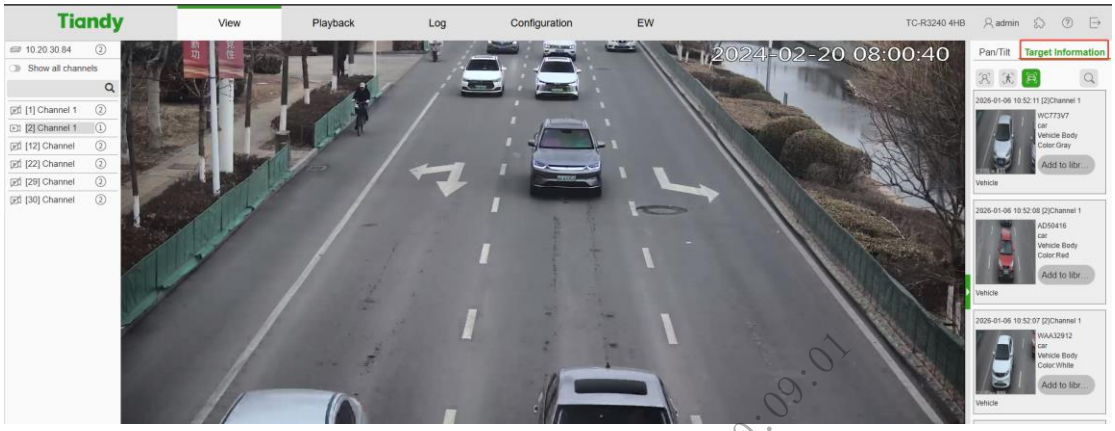
(1) Parameter Settings Interface.



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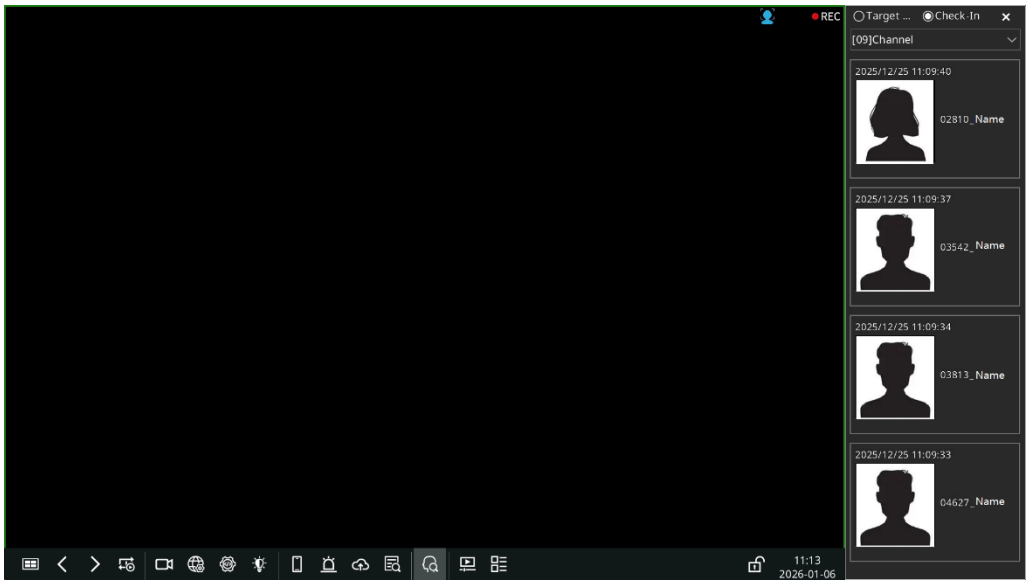


(2) The target information position on the web and UI preview interface supports real-time display of received vehicle images and attribute data, and enables rapid addition of licence plate numbers to the licence plate database.

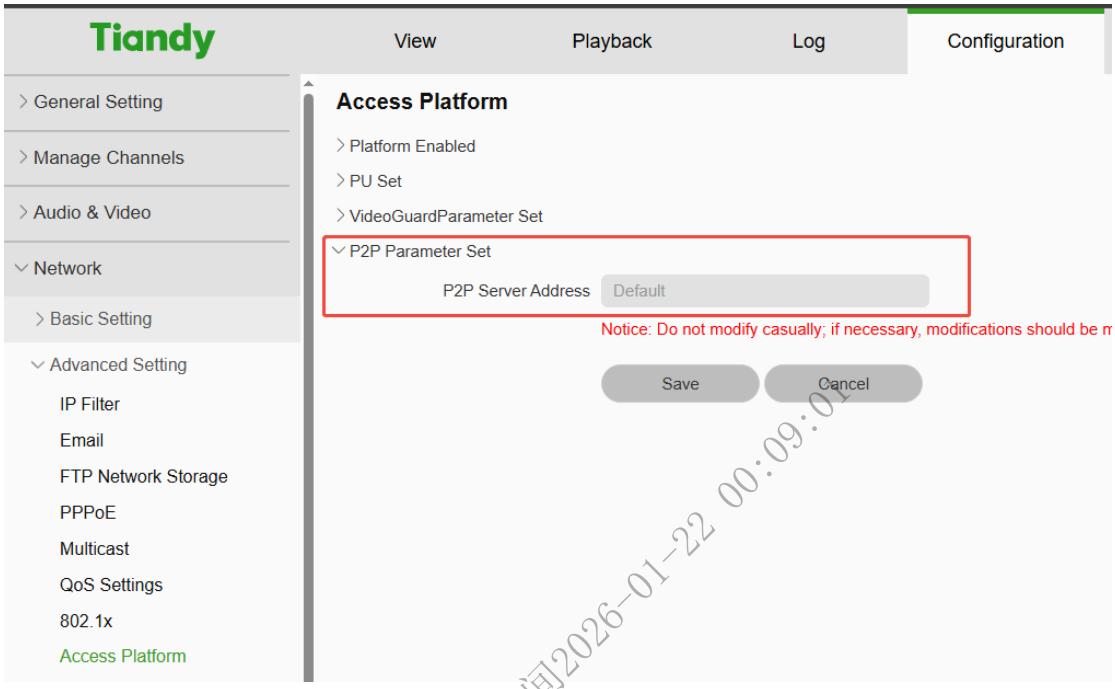


5. The AI NVR's UI interface now supports an attendance display screen. Once activated, intelligent facial recognition will automatically display check-in targets for designated channels.

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6. Add functionality to the web/UI interface for configuring P2P server addresses. When the server address is left blank, the device will use the default server address. Should there be a requirement to modify the server address, users can be guided to change the configuration, thereby resolving issues arising from server changes.



7. Optimise the 8x speed playback effect on the UI interface's single screen to ensure playback is as smooth as possible.

8. **Network Mode Enhancement**:

Devices supporting load balance mode now include an adaptive load balance option. Details of each mode are as follows:

(1) **Redundancy Mode**

Only one NIC is active, handling all traffic while others remain on standby. If the active NIC or its link fails, the system transparently switches to a backup NIC.

Features: Ensures high availability with seamless failover.

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Use Case: Scenarios requiring uninterrupted connectivity but not high bandwidth. Does not fully utilize multi-NIC bandwidth, leading to potential hardware resource waste.

(2) **Load Balance Mode** (mode0: balance-rr)

Outbound traffic is distributed sequentially across each bound NIC. The system monitors interface status and removes failed interfaces from the queue, resuming their use upon recovery. Inbound load balancing typically requires switch support.

Drawback: Packets from the same connection may take different paths with varying latency, potentially causing out-of-order delivery and increased overhead. This can significantly impact performance in high-traffic scenarios.

Use Case: Maximizes throughput where packet delay and reordering are not critical concerns.

(3) **Adaptive Load Balance Mode** (mode6: balance-alb)

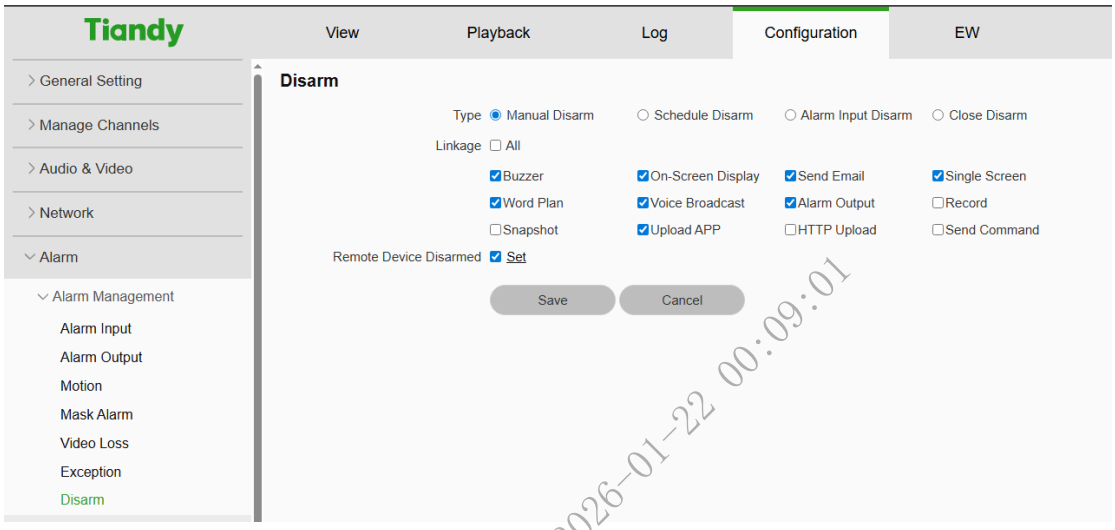
Outbound load balancing operates similarly to mode0. For inbound load balancing, it uses ARP reply manipulation to direct different clients to different physical NICs based on MAC addresses.

Features: Provides full failover capability. No switch configuration is required for bidirectional load balancing.

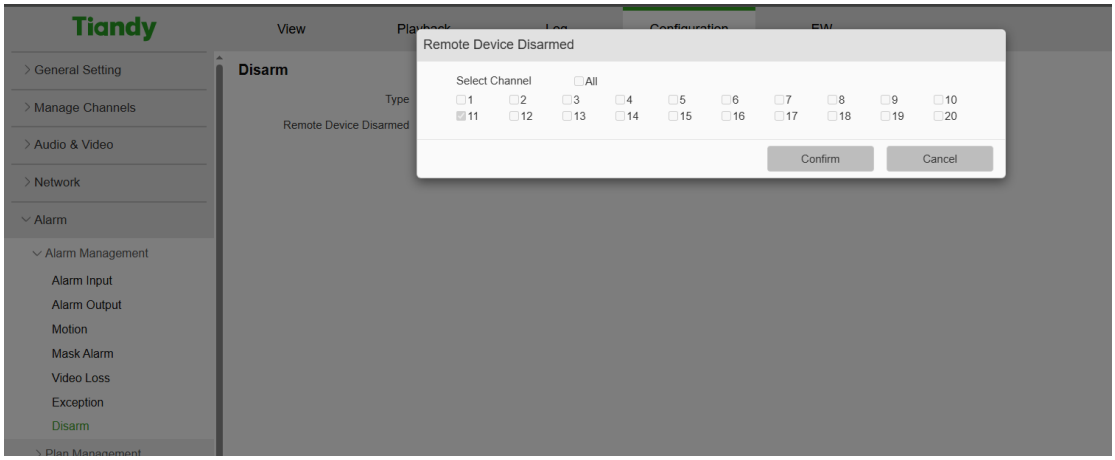
Drawback: Higher CPU overhead due to ARP spoofing and complex algorithms. ARP spoofing may face issues in specific network environments (e.g., certain bridging or complex VLAN setups).

Use Case: Ideal for achieving bidirectional load balancing without switch control or configuration.

9. The disarm function has been upgraded, allowing users to remotely disarm the sound and light alerts associated with specific channels.



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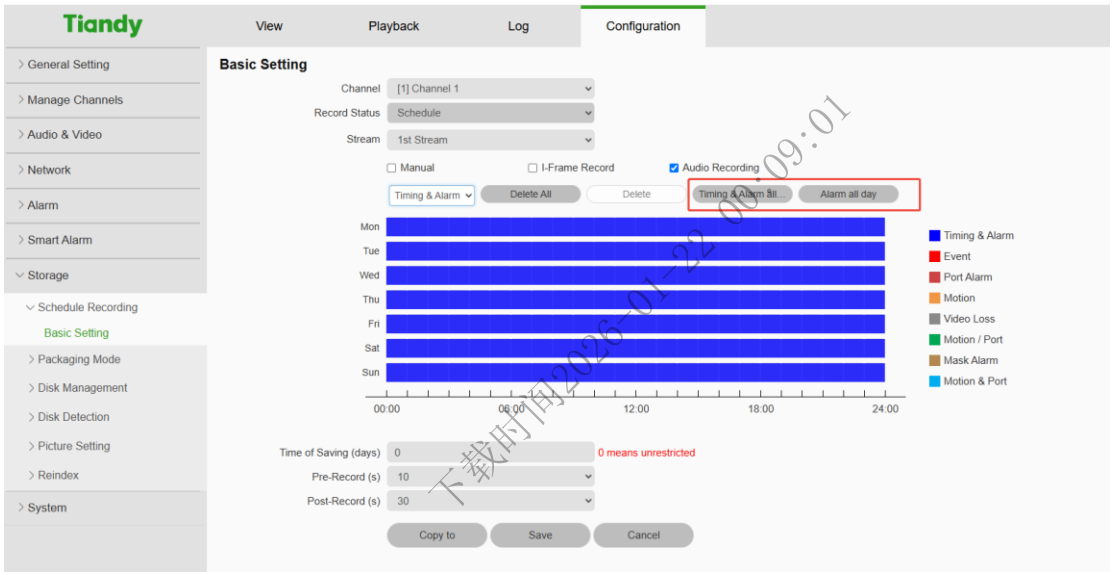
10. HTTP push function has been added to the NVR, allowing for alarm-triggered notifications to be sent automatically. Support GET and POST.

11. Optimization of the GUI keyboard for improved usability



12. For the POE models, you can select 'Plug-and-Play Multi-Channel Camera' to auto-add all the camera's channels; Modification of the PSE network card's default IP address as 172. 16. 1. 2.

2. Adding the function to quickly configure recording templates allows users to set up all-day alarm recordings with one click.



13. Add some new functions compatible with cameras:

(1) Support setting the camera's maximum and minimum exposure times;

(2) Support controlling the turning on and off of the camera's white light;

(3) Support setting Smart Alarm for people, vehicles, and all types;

(4) The linkage items of VCA events support setting the smart white light of the linked camera;

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(5) The Smart Alarm linkage items are enhanced to support red and blue warning lights and linkage tracking.

1.2.2 Fixed bugs

None

1.2.3 Pending Issues

None

1.3 Update Guide

1. You can upgrade the NVR by ConfigTool, web and USB flash drive. For details, see Upgrade Guide.

2. Services such as recording and live view will be paused during the upgrade process. The NVR works normally after upgrade and rebooting.

3. The upgrade does not affect previous settings of the NVR.

4. Do not power off during the upgrade process, or the NVR will not boot up properly.

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