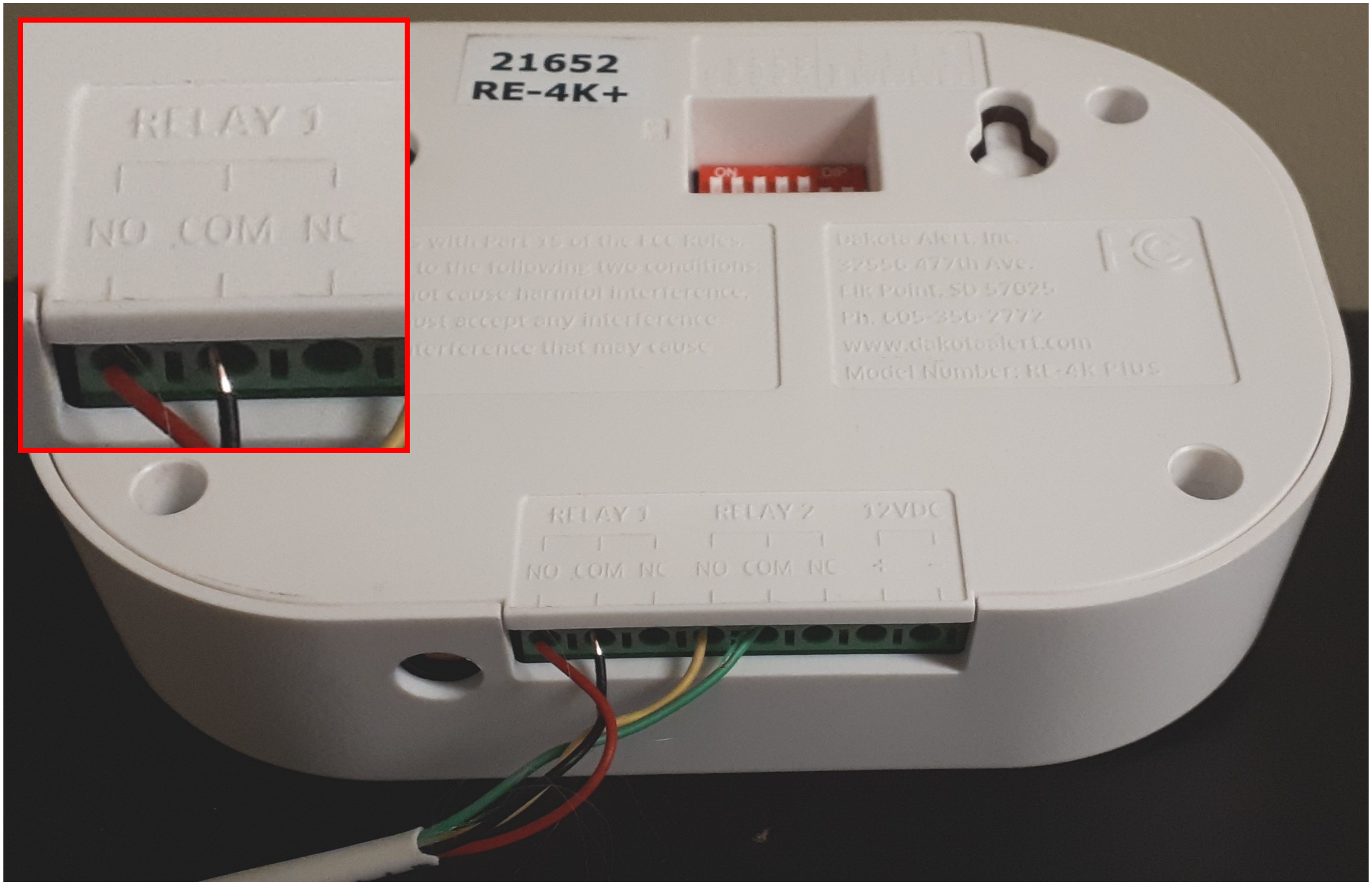
Precision
CAM
www.precisioncam.ca

Dakota Alert and NVR Configuration/Wiring Guide

Precision Cam

WIRING THE RECEIVER/NVR

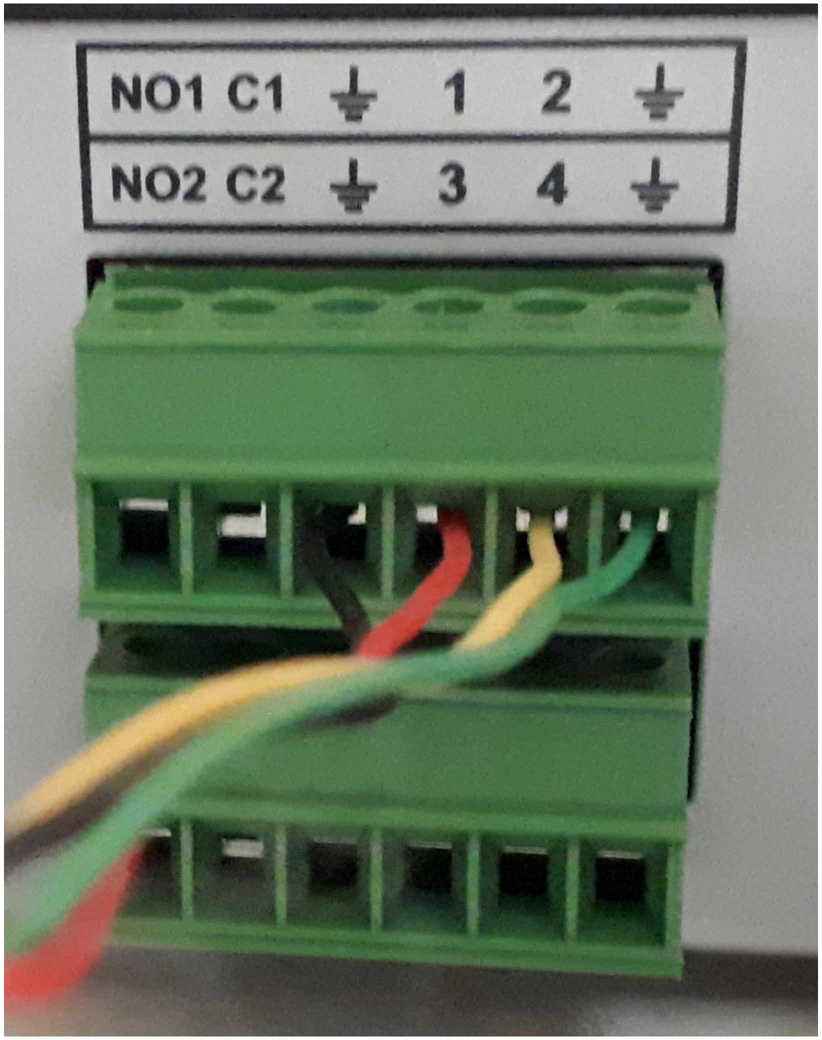
The NVR and Dakota Alert receiver will connect with two wires (red and black in this example). You can run another pair of wires if you set up another zone and transmitter with your receiver.


21652
RE-4K+
ON
DIP
RELAY 1
NO COM NC
RELAY 2
NO COM NC
12VDC
+ -
Dakota Alert, Inc.
32550 477th Ave.
Elk Point, SD 57025
Ph. 605-356-2772
www.dakotaalert.com
Model Number: RE-4K Plus

On Relay 1, the red wire goes to NO, and the black wire goes to COM. Follow the instructions that came with the receiver to properly connect the wires.

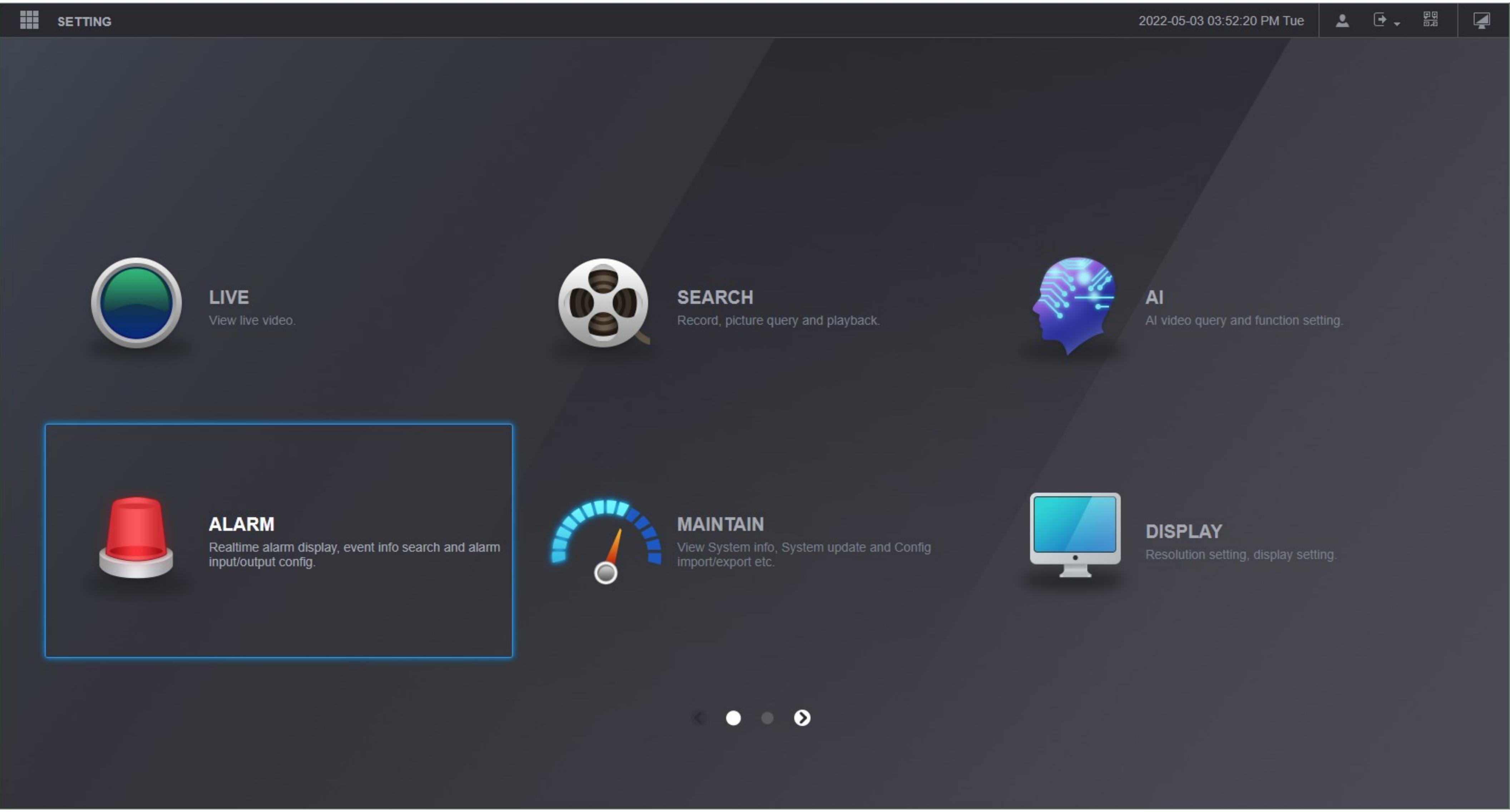
WIRING THE RECEIVER/NVR

On the back of the NVR, the red wire goes to Channel 1. The black wire goes to ground. The amount of alarm input channels you have will depend on the model of your NVR.



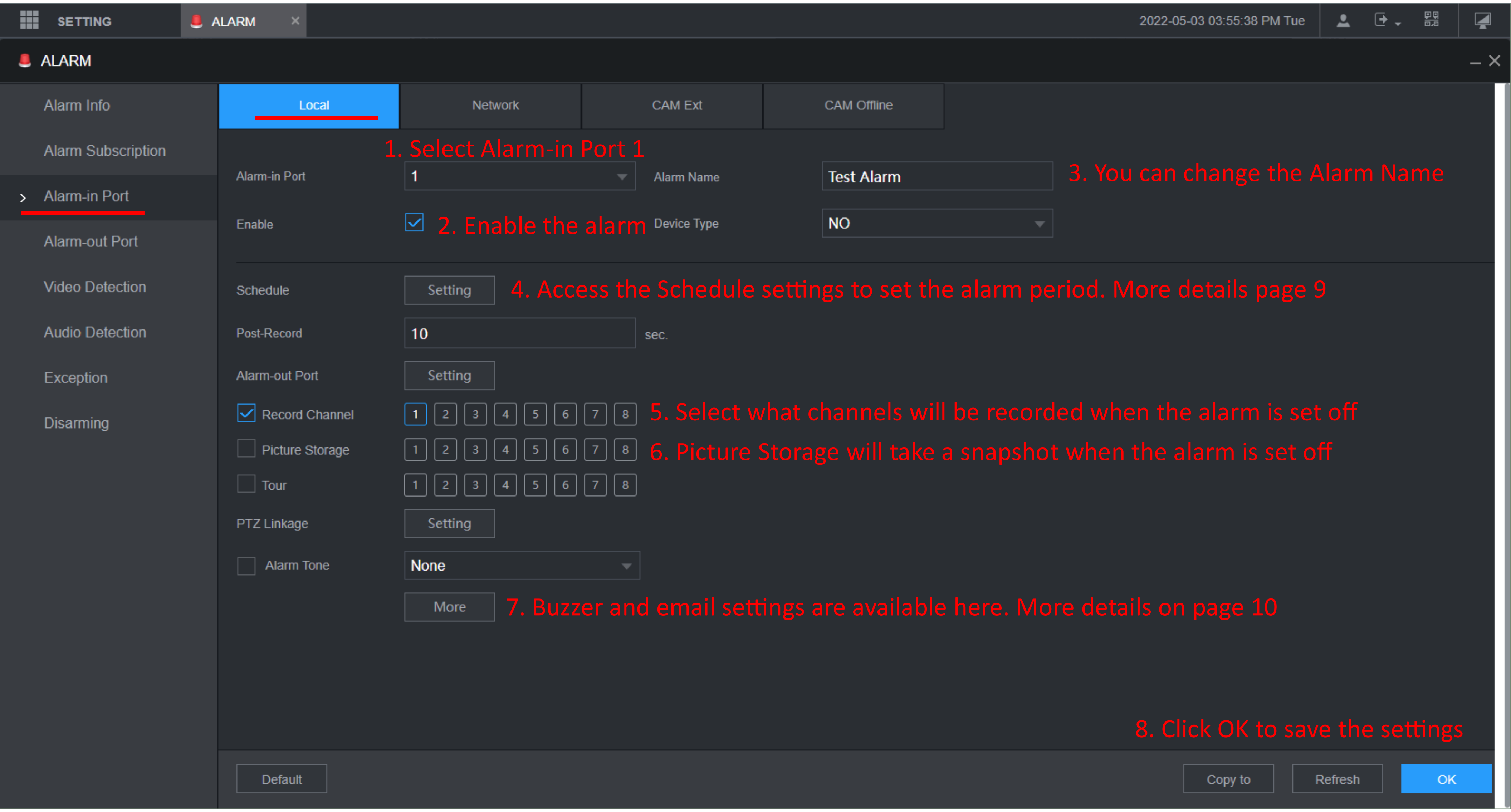
CONFIGURING THE ALARM

From the main menu on the NVR, go to the alarm settings.


SETTING
2022-05-03 03:52:20 PM Tue
LIVE
View live video.
SEARCH
Record, picture query and playback.
AI
AI video query and function setting.
ALARM
Realtime alarm display, event info search and alarm input/output config.
MAINTAIN
View System info, System update and Config import/export etc.
DISPLAY
Resolution setting, display setting.

CONFIGURING THE ALARM

Along the left side of the menu, go to alarm-in port. This will take you to the local alarm settings.


SETTING
ALARM
2022-05-03 03:55:38 PM Tue
ALARM
Alarm Info
Alarm Subscription
Alarm-in Port
Alarm-out Port
Video Detection
Audio Detection
Exception
Disarming
Local
Network
CAM Ext
CAM Offline
Schedule
Setting
Alarm-out Port
Setting
Picture Storage
Tour
PTZ Linkage
Setting
More
Default
Copy to
Refresh
OK

Alarm-in Port: 1

1. Select Alarm-in Port 1

Enable: ☑

2. Enable the alarm

Alarm Name: Test Alarm

3. You can change the Alarm Name

Device Type: NO

4. Access the Schedule settings to set the alarm period. More details page 9

Post-Record: 10 sec.

☑ Record Channel: 1

5. Select what channels will be recorded when the alarm is set off

☐ Picture Storage

6. Picture Storage will take a snapshot when the alarm is set off

☐ Tour

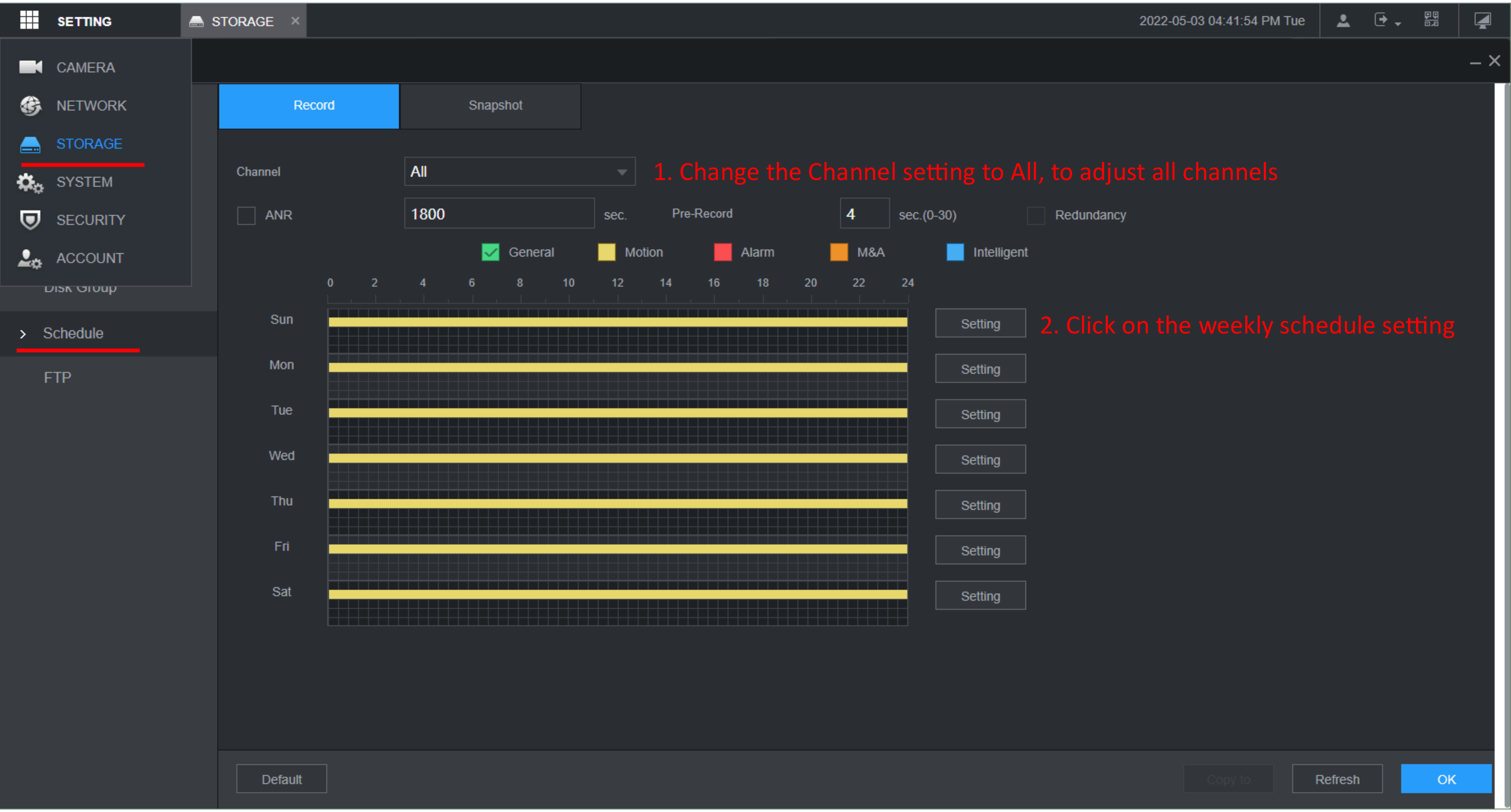
☐ Alarm Tone: None

7. Buzzer and email settings are available here. More details on page 10

8. Click OK to save the settings

TURNING ON THE ALARM

You will have to turn on the alarm option for the NVR schedule. On the NVR, go to the main menu and access the storage settings. Along the left side of the menu, go to the schedule settings.



Channel: All

1. Change the Channel setting to All, to adjust all channels

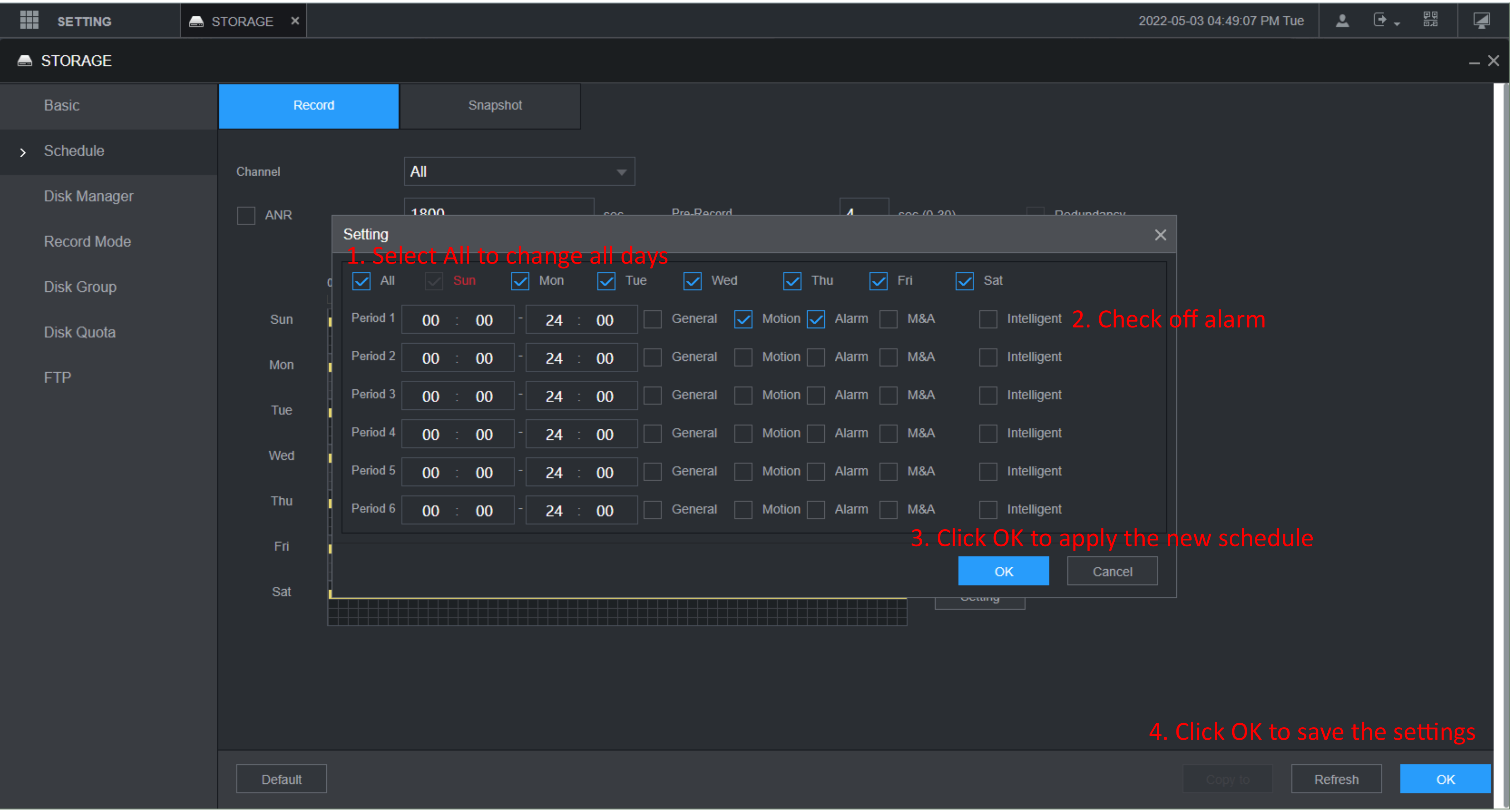
☐ ANR 1800 sec. Pre-Record 4 sec.(0-30) ☐ Redundancy

2. Click on the weekly schedule setting

SETTING
STORAGE
2022-05-03 04:41:54 PM Tue
CAMERA
NETWORK
STORAGE
SYSTEM
SECURITY
ACCOUNT
Disk Group
Schedule
FTP
Record
Snapshot
☑ General
Motion
Alarm
M&A
Intelligent
0
2
4
6
8
10
12
14
16
18
20
22
24
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Setting
Setting
Setting
Setting
Setting
Setting
Setting
Default
Copy to
Refresh
OK

TURNING ON THE ALARM

Turn on the alarm setting in the weekly schedule with the steps below.


SETTING
STORAGE
2022-05-03 04:49:07 PM Tue
STORAGE
Basic
Schedule
Disk Manager
Record Mode
Disk Group
Disk Quota
FTP
Record
Snapshot
Channel
All
ANR
1800
sec
Pre-Record
4
sec (0-30)
Redundancy
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Setting
Default
Copy to
Refresh
OK

Setting

1. Select All to change all days

☑ All ☑ Sun ☑ Mon ☑ Tue ☑ Wed ☑ Thu ☑ Fri ☑ Sat

Period 1	00 : 00 - 24 : 00	☐ General	☑ Motion	☑ Alarm	☐ M&A	☐ Intelligent	2. Check off alarm
Period 2	00 : 00 - 24 : 00	☐ General	☐ Motion	☐ Alarm	☐ M&A	☐ Intelligent	
Period 3	00 : 00 - 24 : 00	☐ General	☐ Motion	☐ Alarm	☐ M&A	☐ Intelligent	
Period 4	00 : 00 - 24 : 00	☐ General	☐ Motion	☐ Alarm	☐ M&A	☐ Intelligent	
Period 5	00 : 00 - 24 : 00	☐ General	☐ Motion	☐ Alarm	☐ M&A	☐ Intelligent	
Period 6	00 : 00 - 24 : 00	☐ General	☐ Motion	☐ Alarm	☐ M&A	☐ Intelligent	

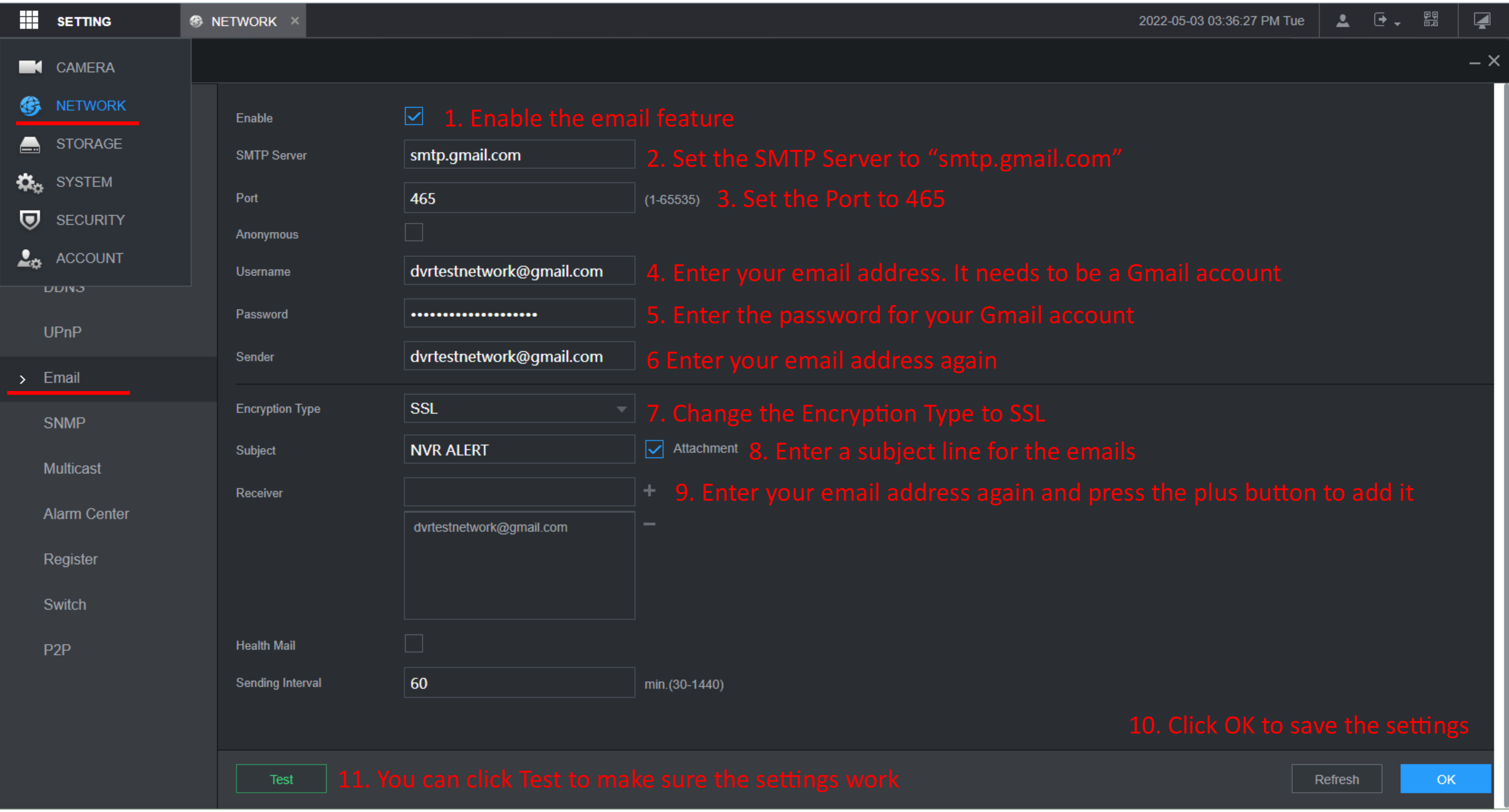
3. Click OK to apply the new schedule

OK Cancel

4. Click OK to save the settings

OPTIONAL: SETTING UP EMAIL NOTIFICATIONS

You have the option to set up email notifications for the alarm. This will require a Gmail account. If you do not want to use your personal Gmail, you can create another to use for this. On the NVR, go to the main menu and access the network settings. Along the left side of the menu, go to the email settings.


SETTING
NETWORK ×
2022-05-03 03:36:27 PM Tue
CAMERA
NETWORK
STORAGE
SYSTEM
SECURITY
ACCOUNT
DDNS
UPnP
Email
SNMP
Multicast
Alarm Center
Register
Switch
P2P
Test
Refresh
OK

Enable ☑ 1. Enable the email feature

SMTP Server: smtp.gmail.com 2. Set the SMTP Server to “smtp.gmail.com”

Port: 465 (1-65535) 3. Set the Port to 465

Anonymous ☐

Username: dvrtestnetwork@gmail.com 4. Enter your email address. It needs to be a Gmail account

Password: •••••••••••••••••••• 5. Enter the password for your Gmail account

Sender: dvrtestnetwork@gmail.com 6 Enter your email address again

Encryption Type: SSL 7. Change the Encryption Type to SSL

Subject: NVR ALERT ☑ Attachment 8. Enter a subject line for the emails

Receiver: + 9. Enter your email address again and press the plus button to add it

dvrtestnetwork@gmail.com

Health Mail ☐

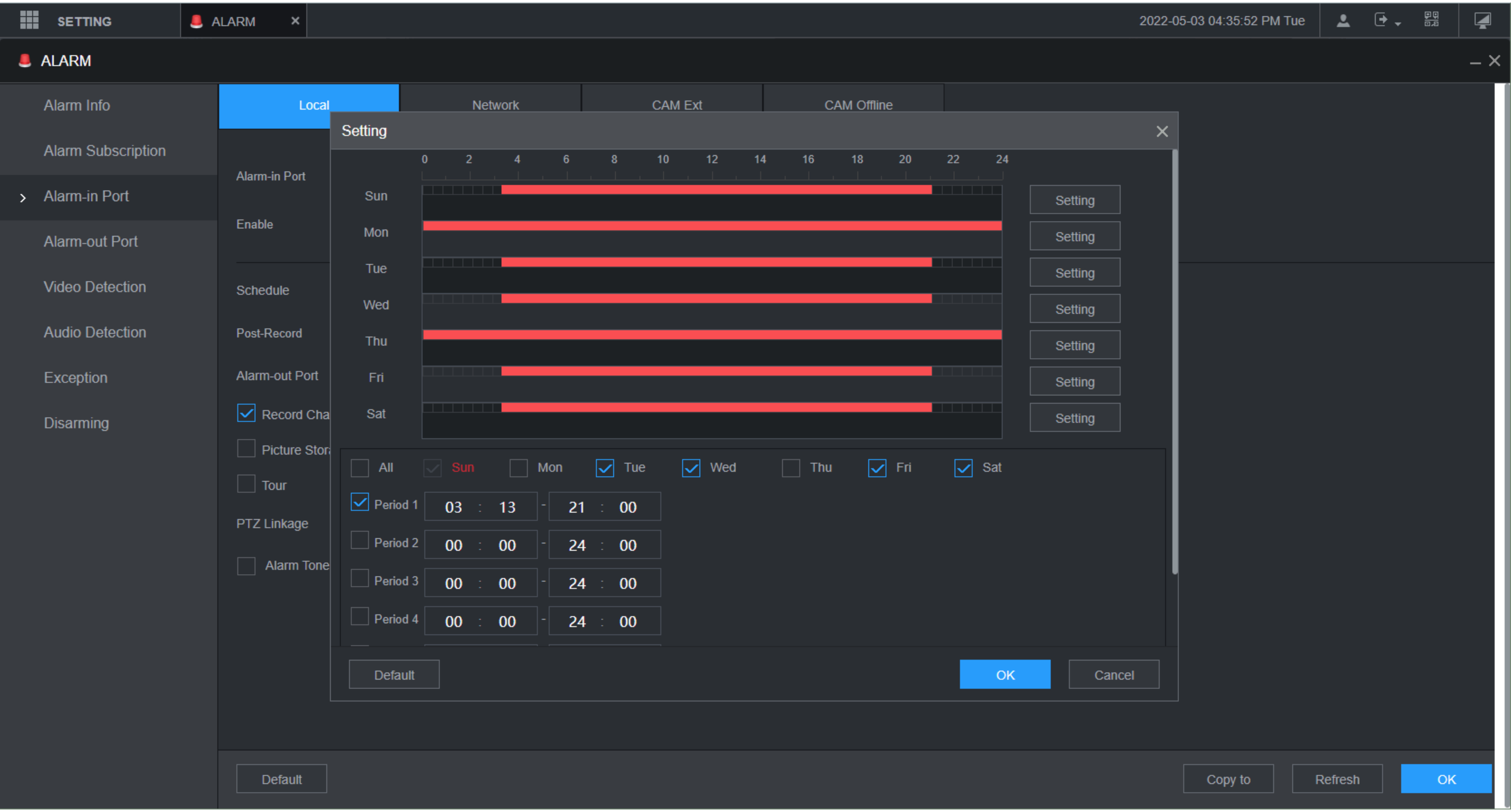
Sending Interval: 60 min.(30-1440)

10. Click OK to save the settings

11. You can click Test to make sure the settings work

OPTIONAL: SCHEDULING THE ALARM

You can adjust the schedule of the alarm. For example, you can turn it off completely for some days of the week, or only have it on in the afternoon. By default, it is on for every hour of every day.

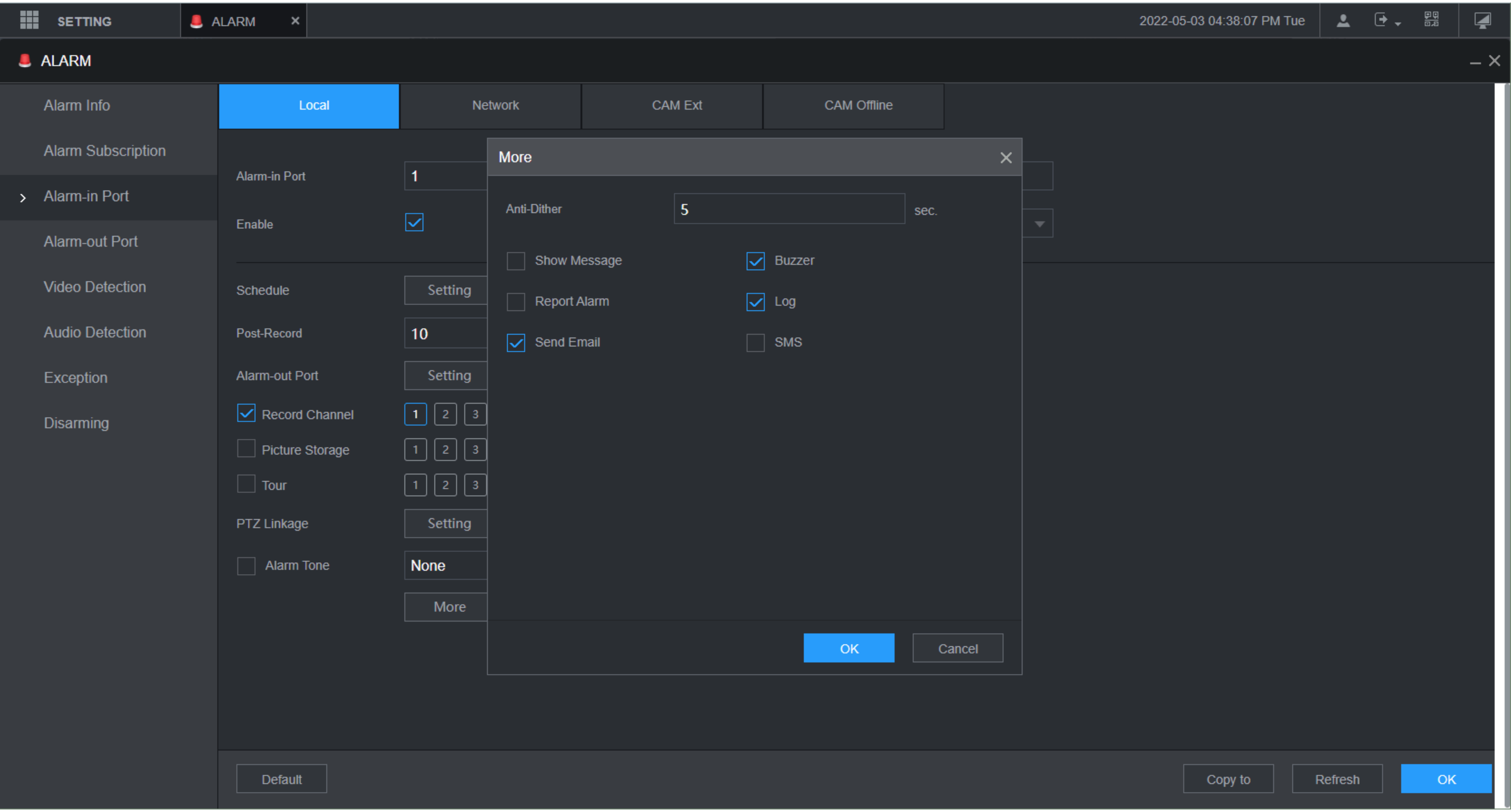

SETTING
ALARM
2022-05-03 04:35:52 PM Tue
ALARM
Alarm Info
Alarm Subscription
Alarm-in Port
Alarm-out Port
Video Detection
Audio Detection
Exception
Disarming
Local
Network
CAM Ext
CAM Offline
Alarm-in Port
Enable
Schedule
Post-Record
Alarm-out Port
Record Cha
Picture Stor
Tour
PTZ Linkage
Alarm Tone
Setting
0
2
4
6
8
10
12
14
16
18
20
22
24
Sun
Mon
Tue
Wed
Thu
Fri
Sat
Setting
Setting
Setting
Setting
Setting
Setting
Setting
Default
OK
Cancel
Default
Copy to
Refresh
OK

☐ All ☑ Sun ☐ Mon ☑ Tue ☑ Wed ☐ Thu ☑ Fri ☑ Sat

☑ Period 1 03 : 13 - 21 : 00
☐ Period 2 00 : 00 - 24 : 00
☐ Period 3 00 : 00 - 24 : 00
☐ Period 4 00 : 00 - 24 : 00

OPTIONAL: CHOOSING NOTIFICATION METHODS

You can adjust what sort of notifications the alarm will send. Different options will be available depending on your NVR. If you want the email notifications, be sure to check off the email option.


SETTING
ALARM
2022-05-03 04:38:07 PM Tue
ALARM
Alarm Info
Alarm Subscription
Alarm-in Port
Alarm-out Port
Video Detection
Audio Detection
Exception
Disarming
Local
Network
CAM Ext
CAM Offline
Schedule
Setting
Alarm-out Port
Setting
PTZ Linkage
Setting
More
OK
Cancel
Default
Copy to
Refresh
OK

Alarm-in Port: 1

Enable: ☑

Post-Record: 10

☑ Record Channel 1 2 3

☐ Picture Storage 1 2 3

☐ Tour 1 2 3

☐ Alarm Tone: None

More

Anti-Dither: 5 sec.

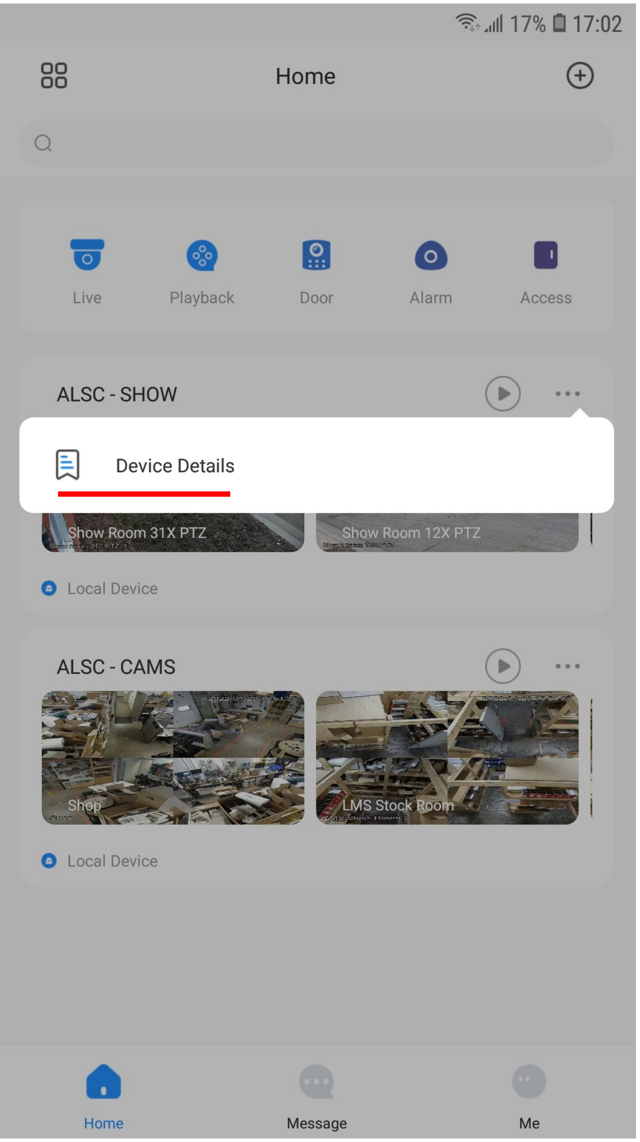
☐ Show Message ☑ Buzzer

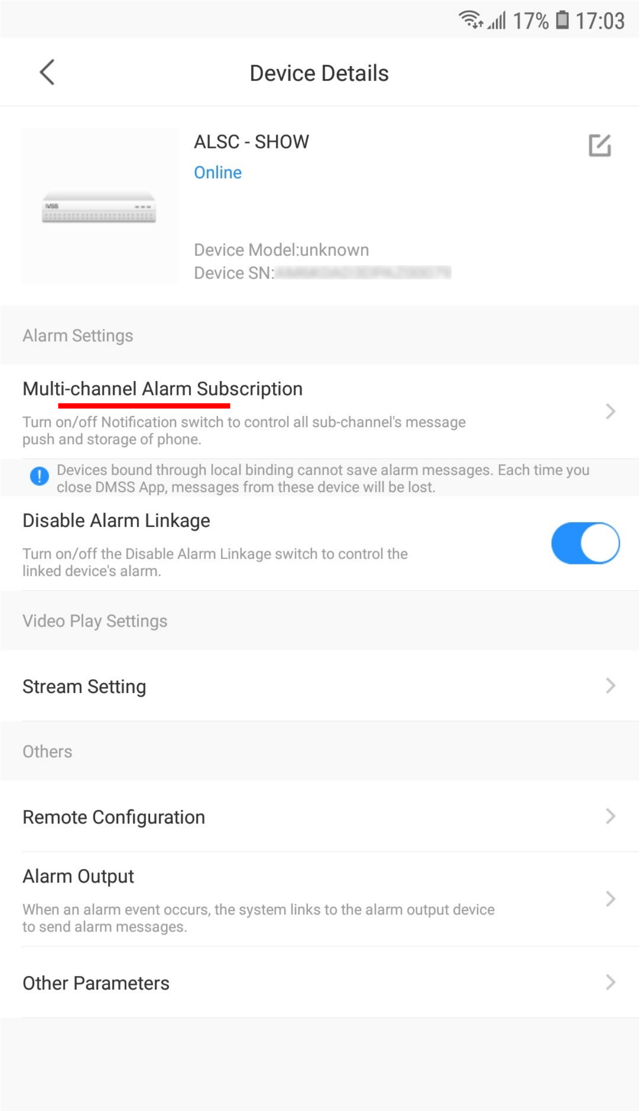
☐ Report Alarm ☑ Log

☑ Send Email ☐ SMS

CONFIGURING NOTIFICATIONS ON YOUR PHONE

You can configure your DMSS app to notify you when the alarm is activated. Open the app and go to device details of your NVR. Turn on the multi-channel alarm subscription.


17% 17:02
Home
Live
Playback
Door
Alarm
Access
ALSC - SHOW
Device Details
Show Room 31X PTZ
Show Room 12X PTZ
Local Device
ALSC - CAMS
Shop
LMS Stock Room
Local Device
Home
Message
Me


17% 17:03
Device Details

ALSC - SHOW
Online
Device Model:unknown
Device SN:[redacted]

Alarm Settings

Multi-channel Alarm Subscription
Turn on/off Notification switch to control all sub-channel's message push and storage of phone.

Devices bound through local binding cannot save alarm messages. Each time you close DMSS App, messages from these device will be lost.

Disable Alarm Linkage
Turn on/off the Disable Alarm Linkage switch to control the linked device's alarm.

Video Play Settings

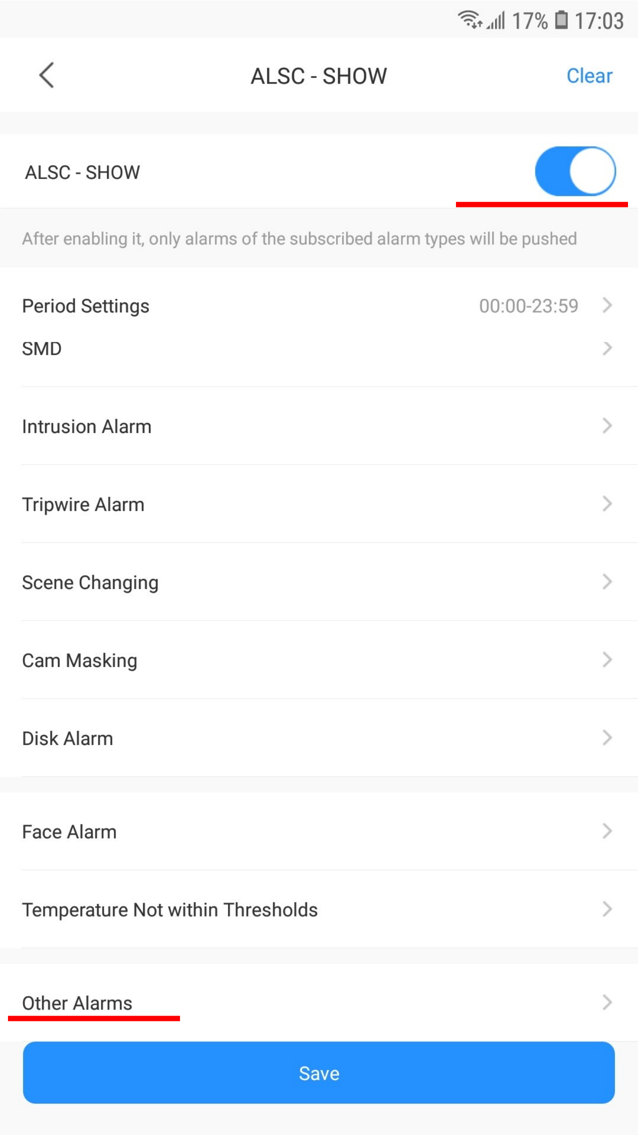
Stream Setting

Others

Remote Configuration

Alarm Output
When an alarm event occurs, the system links to the alarm output device to send alarm messages.

Other Parameters


17% 17:03
ALSC - SHOW
Clear

ALSC - SHOW

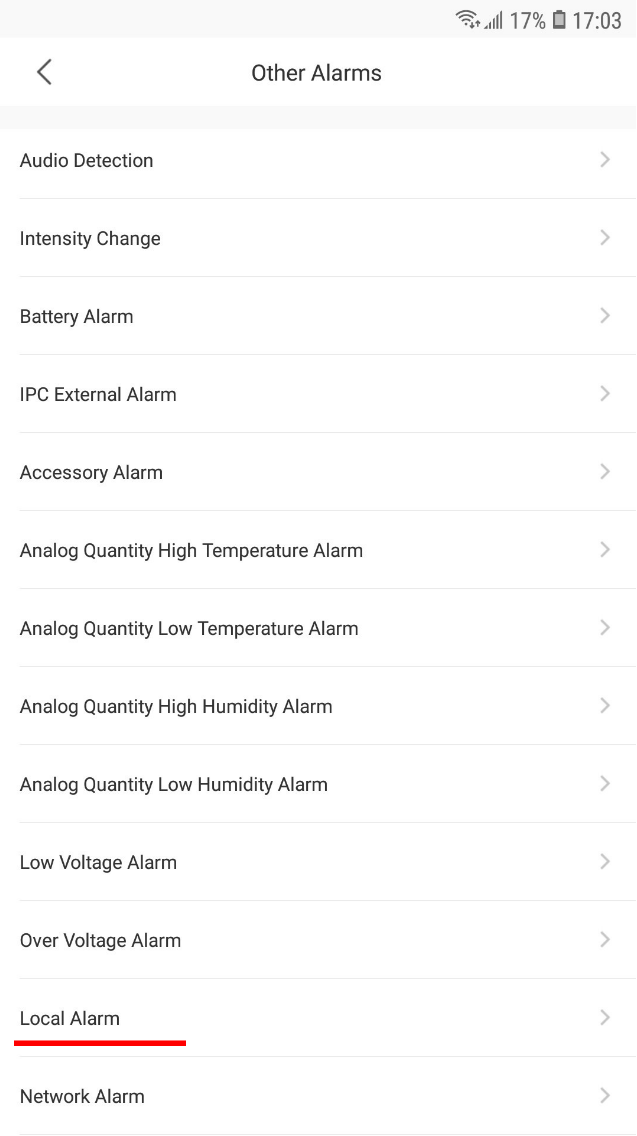
After enabling it, only alarms of the subscribed alarm types will be pushed

Period Settings 00:00-23:59

SMD
Intrusion Alarm
Tripwire Alarm
Scene Changing
Cam Masking
Disk Alarm
Face Alarm
Temperature Not within Thresholds
Other Alarms
Save

CONFIGURING NOTIFICATIONS ON YOUR PHONE

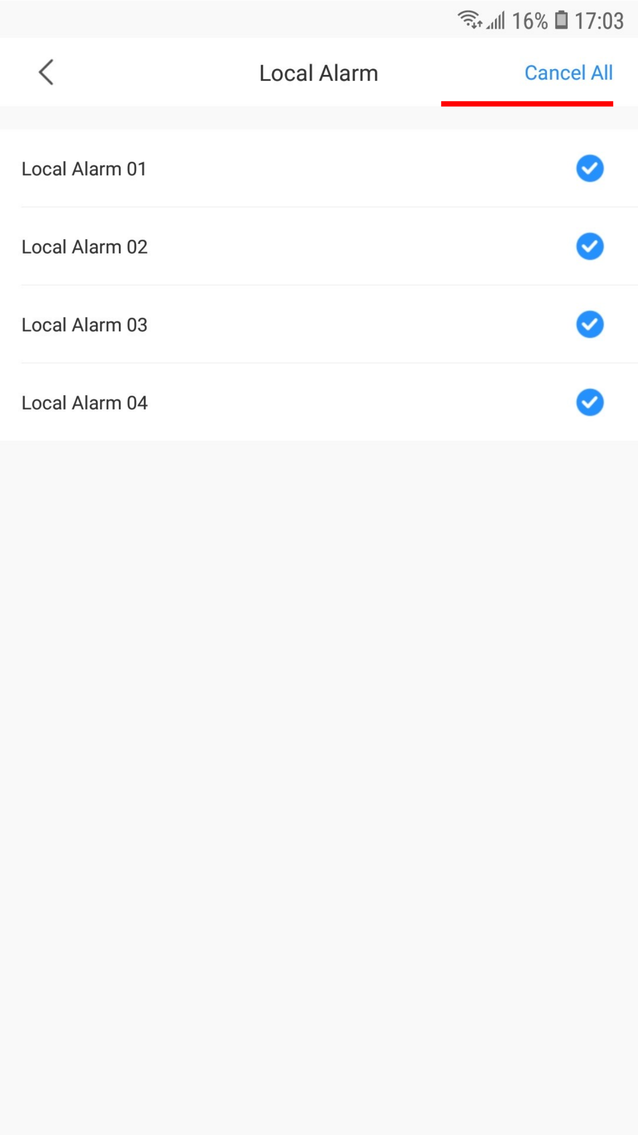
Scroll to other alarms, then down to local alarm. Select what channel you want to receive notifications for, you can just select all. Go back and save the settings.



17% 17:03

Other Alarms

- Audio Detection
- Intensity Change
- Battery Alarm
- IPC External Alarm
- Accessory Alarm
- Analog Quantity High Temperature Alarm
- Analog Quantity Low Temperature Alarm
- Analog Quantity High Humidity Alarm
- Analog Quantity Low Humidity Alarm
- Low Voltage Alarm
- Over Voltage Alarm
- Local Alarm
- Network Alarm

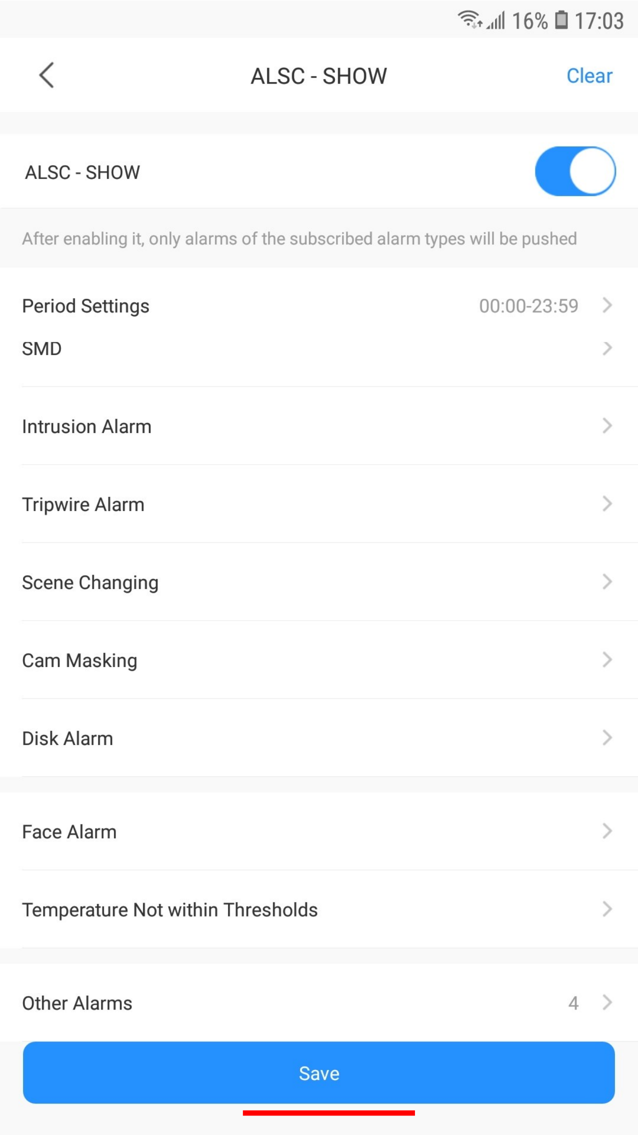


16% 17:03

Local Alarm

Cancel All

- Local Alarm 01 ✓
- Local Alarm 02 ✓
- Local Alarm 03 ✓
- Local Alarm 04 ✓



16% 17:03

ALSC - SHOW

Clear

ALSC - SHOW ●

After enabling it, only alarms of the subscribed alarm types will be pushed

Period Settings 00:00-23:59

- SMD
- Intrusion Alarm
- Tripwire Alarm
- Scene Changing
- Cam Masking
- Disk Alarm
- Face Alarm
- Temperature Not within Thresholds
- Other Alarms 4

Save