

USER'S MANUAL

Bozztel NAR5000 ,NAR4000,

EMBEDDED SYSTEM

VOICE LOGGER

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EMBEDDED SYSTEM VOICE LOGGER

USER'S MANUAL

The manual includes NAR5000 & NAR4000 series. NAR5000 & NAR4000 have its own features and appearance. Both of product series use same PC client program,

PRODUCE OVERVIEW

Thanks for purchasing YISHI NAR5032 32CH embedded system voice logger.

NAR5032 is consisted by 667MHz CPU, latest Samsung ARM chip and innovative hardware frame and specific call recording software. Each NAR5032 voice logger starts from 8 channels and is expandable to 32 channels. NAR5032 voice logger is a simple stand- alone call recording device with touch screen, speNAR5000-phone, and network connection. No PC required, NAR5032 supports touch screen operation. It achieves playback recording file, instant monitor and search function. NAR5032, the genuine embedded system voice logger is a perfect recording solution for various industries.

NAR5000 Features

1. System boots in 20 sec
2. Support high capacity SATA HDD 500G/1T/2T
3. Expandable from 8 to 16, 24 and 32 channels
4. Touch screen operation
5. Remote control by network
6. Instant playback through speNAR5000er
7. Removable & hot swappable recording card
8. Removable HDD
9. Full embedded device, no PC required
10. Lower power dissipation supports 7x24x365 running

NAR4000 Features

1. System boots in 20 sec
2. Support high capacity SATA HDD 500G/1T/2T
3. Optional SD card model, max 64GB
4. Expandable from 8 to 16, 24 and 32 channels
5. Touch screen operation
6. Optional model without touch screen (SD/HDD)

7. Remote control by network
8. Instant playback through speNAR5000er
9. Full embedded device, no PC required
10. Lower power dissipation supports 7x24x365 running

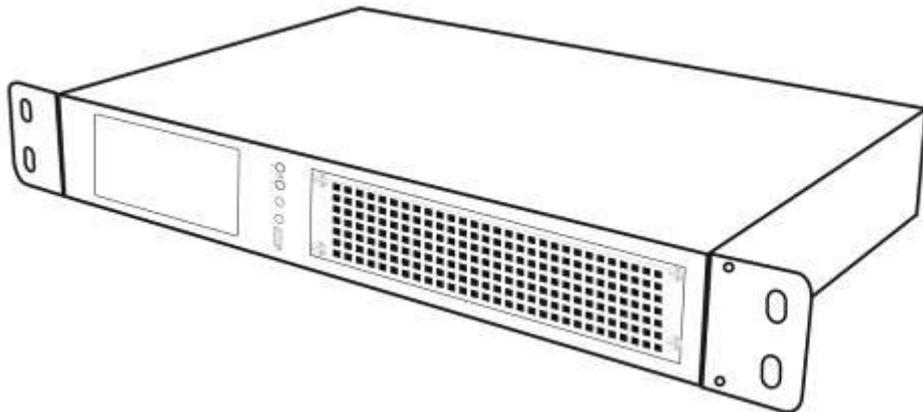
NAR5000 HDD Recording Hour

11. 500GB : 36,000 Hour
12. 1000GB(1T) : 72,000 Hour
13. 2000GB(2T) : 144,000 Hour

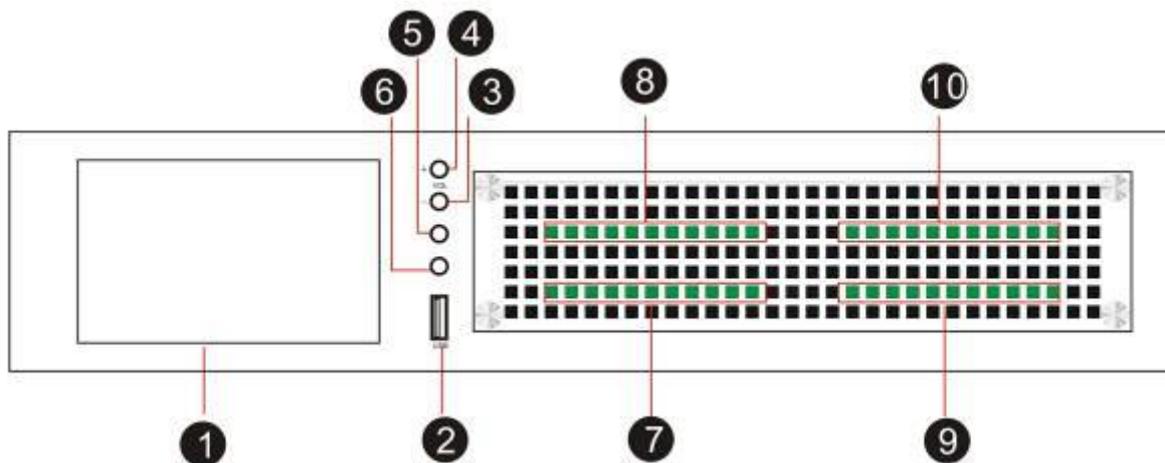
NAR4000 HDD Recording Hour /SD Recording Hour

1. 500GB 36,000 Hour
2. 1000GB(1T) 72000 Hour
3. 2000GB(2T) 144000 Hour
4. 8GB 560 Hour ([SD Card](#))
5. 32GB 2240 Hour ([SD Card](#))
6. 64GB 4480 Hour ([SD Card](#))

NAR5000 Appearance

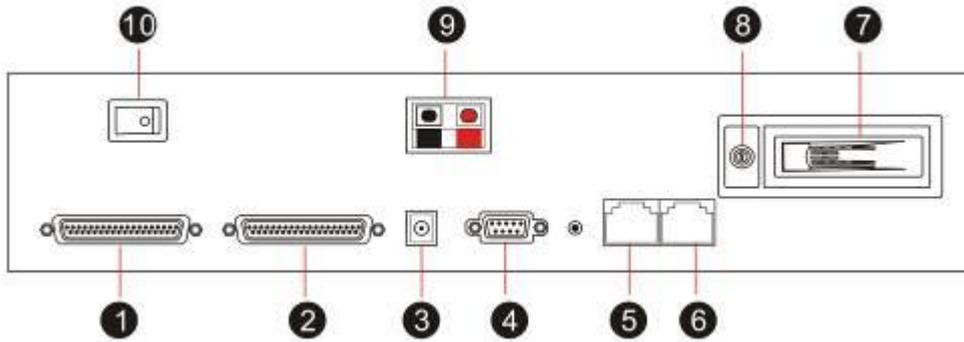


NAR5000 Front



1. 5" touch screen, 800 * 480
2. USB Host for upgrade or backup HDD
3. Volume -
4. Volume +
5. Earphone (Main)
6. Earphone (Sub)
7. [Card 1 \(Channel 01-08\)](#)
8. [Card 2 \(Channel 09-16\)](#)
9. [Card 3 \(Channel 17-24\)](#)
10. [Card 4 \(Channel 25-32\)](#)

NAR5000 Rear

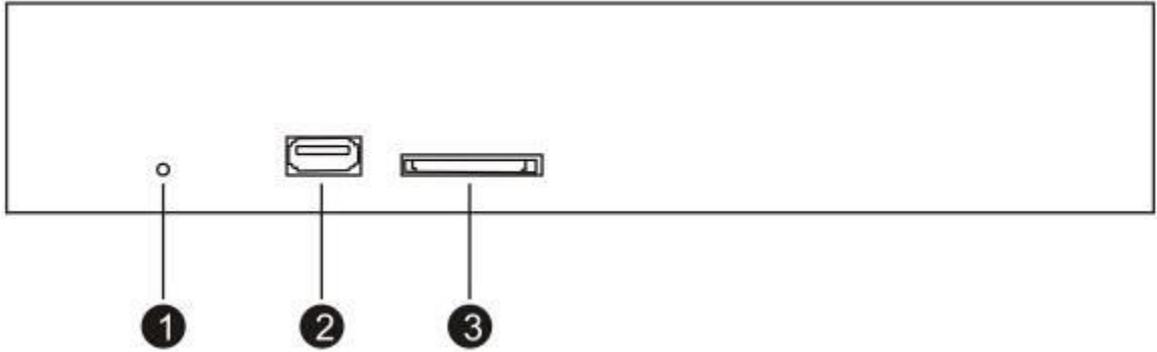


1. DB37 for Channel 17-32
2. DB37 for Channel 1-16
3. Power input : DC-19V
4. RS232 for SMDR
5. RJ45 for LAN
6. RJ45 for WAN (SIP record)
7. SATA HDD
8. HDD lock
9. External power
10. Power switch

NAR4000 Appearance

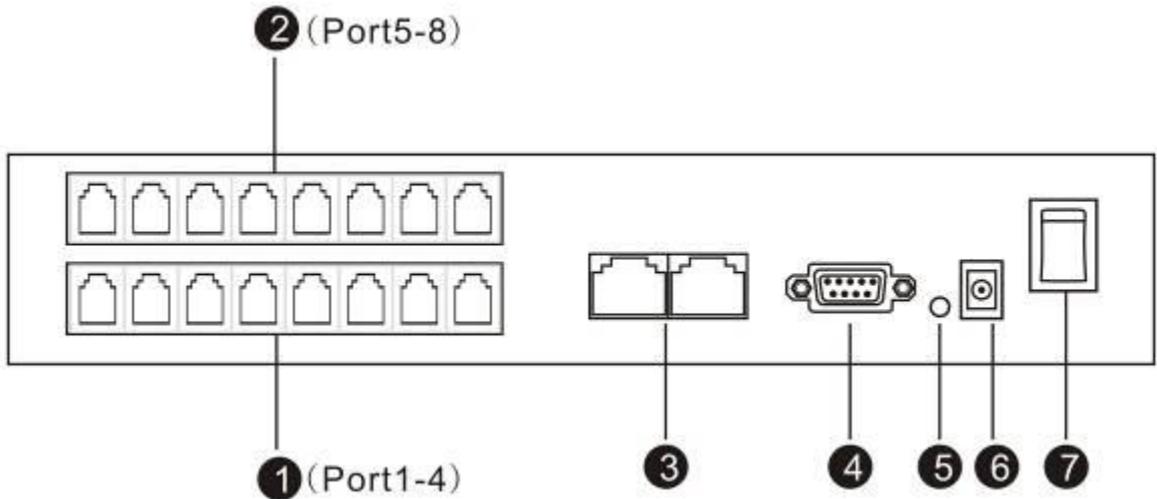


NAR4000 Front



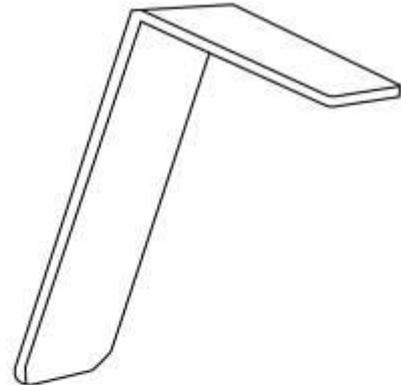
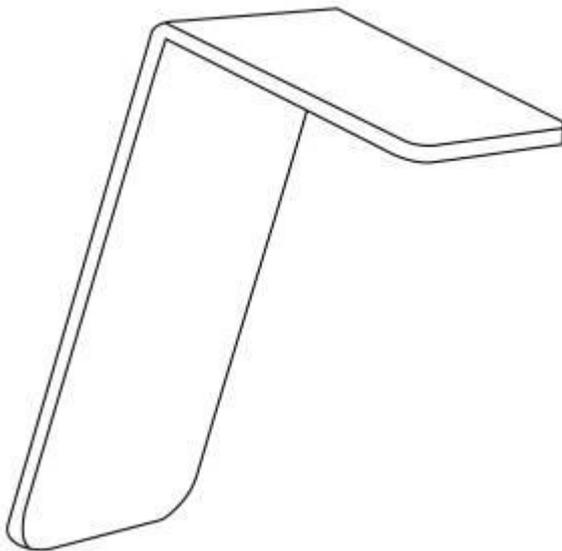
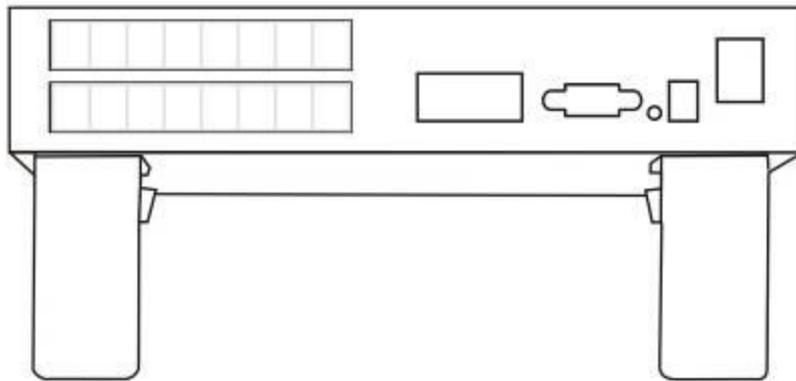
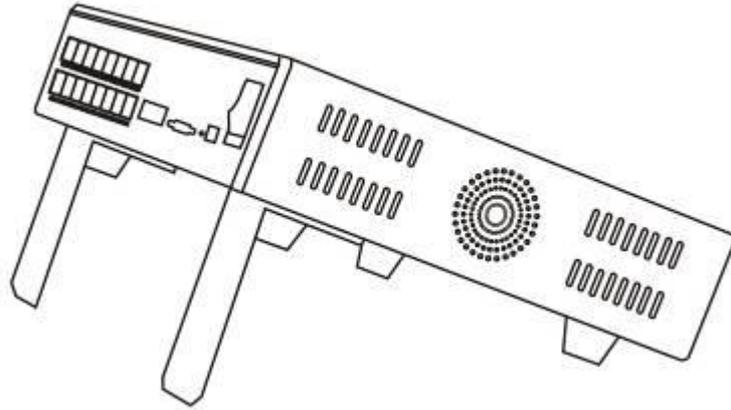
1. Power LED
2. USB Host for backup or system upgrade
3. SD Slot for optional SD card model. No use for HDD model

NAR4000 Rear

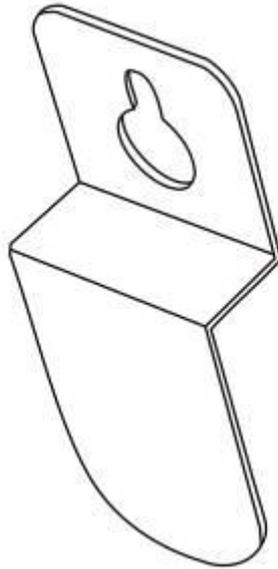
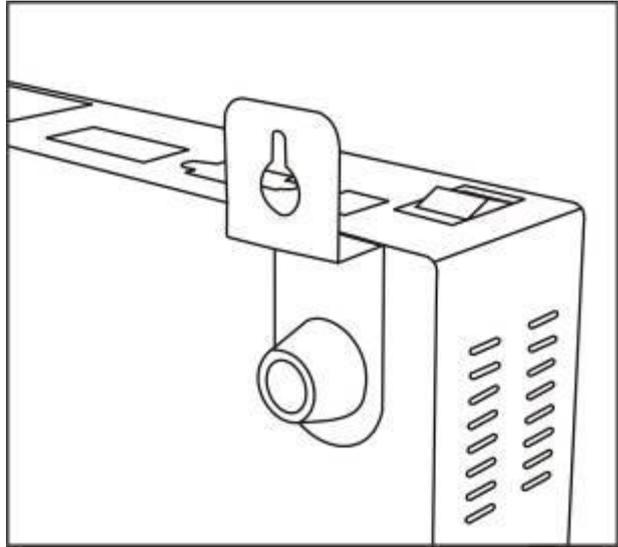
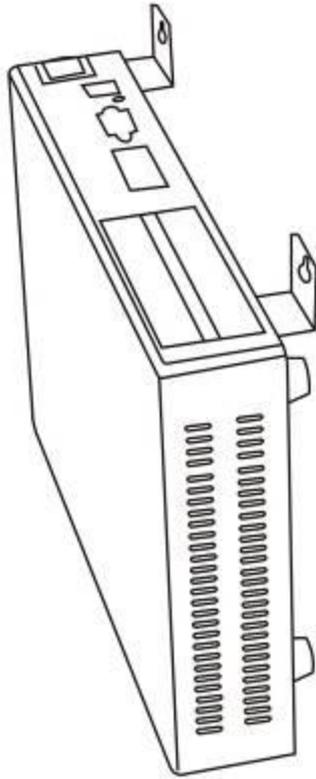


- 1 Card 1, Channel 1-4 (RJ11)
- 2 Card 2, Channel 5-8 (RJ11)
- 3 RJ45 Port x 2
- 4 RS232 Port for SMDR data
- 5 RS232 data indicator
- 6 Power input : DC-19V
- 7 Power switch

NAR4000 Rack (Remove NAR4000 rubber stand first and screw it with rack again)



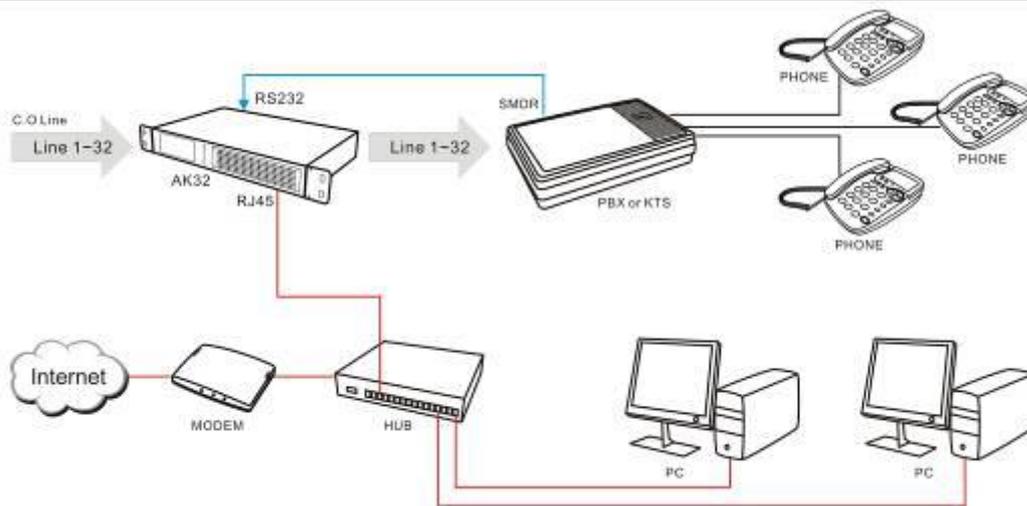
NAR4000 Wall mount (Remove rubber stand and screw it with wall mount again)



Program System Requirement

1. Windows7/Vista/XP/2000
2. Pentium 400MHZ CPU
3. 256MB RAM
4. 1GB HDD
5. Network RJ45 port
6. Audio output (Play & Monitor)

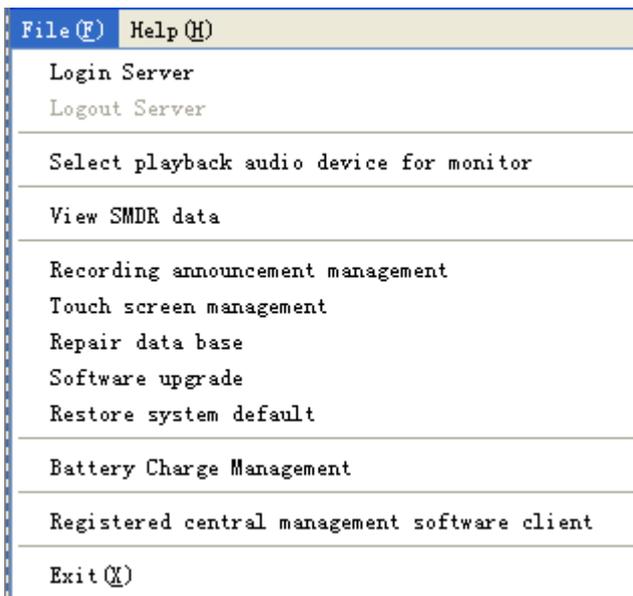
Connection



PC Program

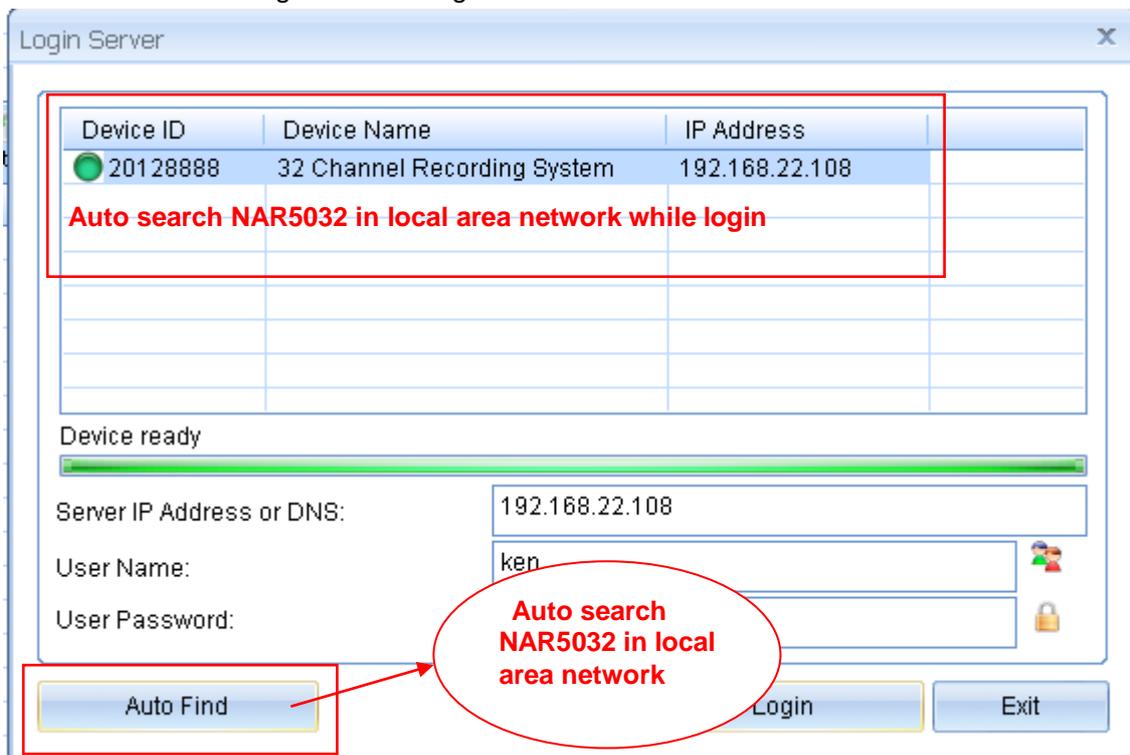
PC Program introduction

Menu



Login Recording system server

Connect with recording device through network



The IP address of selected the device will be saved. It will be display automatically in next login.

User Name: admin (default)

Password: 1111 (default)

- a. NAR5032 located in same LAN, you can log in with complete LAN IP address, user name and password.

- b. NAR5032 located in remote site, you can log in remotely with complete IP address or Domain name, user name and password.

For remote log in, you have to configure the IP sharing prior to NAR5032 site.

Bundle IP sharing port 6066

From followed example, the IP sharing can be configured as a virtual server so that remote users accessing WEB service via public IP address can be automatically redirect to local NAR5032 (192.168.0.103) in the LAN.

The screenshot displays the 'Virtual Server' configuration page on a D-Link DI-704P router. The page is titled 'Virtual Server' and includes a description: 'Virtual Server is used to allow Internet users access to LAN services.' The configuration options are as follows:

- Enabled: Enabled, Disabled
- Name: NAR5032
- Private IP: 192.168.0.103
- Protocol Type: TCP
- Private Port: 6066
- Public Port: 6066
- Schedule: Always, From (Time: 00:00 To 00:00, day: Sun to Sun)

Buttons for 'Apply', 'Cancel', and 'Help' are visible. Below the configuration fields is a 'Virtual Server List' table:

Name	Private IP	Protocol	Schedule
<input type="checkbox"/> AK32	192.168.0.103	TCP 6066/6066	always

WAN IP address

- a. Static IP address. The IP address is fixed, will not be changed.
- b. Dynamic IP address: Internet user is assigned a new IP address by ISP each time logon. For remote accessing to NAR5032, user has to create a domain name for WAN connection.

To figure out local WAN IP address, user may visit some professional website to verify i.e. <http://www.myip.cn/>

Log out recording server

Log out for disconnection with recording server.

SMDR Data

You can enable/disable SMDR configuration.

Enable SMDR (Station Message Detail Recording), NAR5032 will receive data from PABX and pop up details on client program. You may adjust the exact data of the form.

The screenshot shows a configuration window for SMDR. It is divided into three main sections: 'Outbound SMDR', 'Inbound SMDR', and communication settings. Each section contains input fields for Symbol, Extension position, Extension length, Channel position, Channel length, Number position, and Number length, all currently set to 0. To the right, there is a checkbox for 'Device is connected with PBX' and several dropdown menus for 'Com' (COM1), 'Baud rate(D)' (110), 'Binary(P)' (5), 'Parity(S)' (NOPARITY), and 'Stop' (1). At the bottom right, there are buttons for 'Read', 'IP SMDR', and 'Update'.

SMDR Configuration example:

```
$TO:11/05/30 14 14 01 0229524929
$TO:11/05/30 14 14 01 0229524929
$TO:11/05/30 14 14 01 0229524929          0000 17:54:59 00046 00000
$TO:11/05/30 14 14 01 0229524929          0000 17:54:59 00046 00000
$TO:11/05/30 19 19 07 0225859650          0000 17:53:29 00033 00000
$TO:11/05/30 24 24 01 09328              0000 17:53:56 00002 00000
$TO:11/05/30 12 12 04 123                 0000 17:53:07 00002 00000
$TO:11/05/30 12 12 03 123                 0000 17:52:46 00016 00000
$TO:11/05/30 12 12 01 123                 0000 17:52:15 00012 00000
```

It shows extension number is 14, Channel is 01

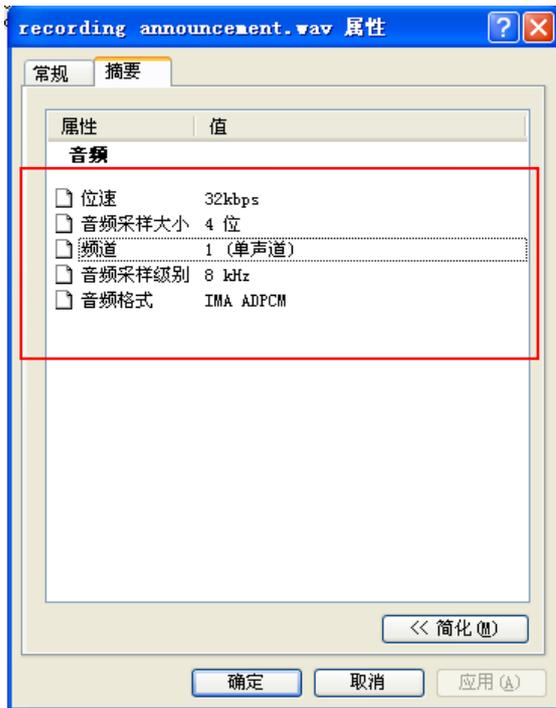
You can count extension number position starts from the 14th digital, length is 2. Input the data to corresponded space.

The same methods, it shows channel position starts from the 24th digital, length is 2. Input the data to corresponded space.

NAR5032 supports Caller ID, telephone number information from SMDR will be ignored. .

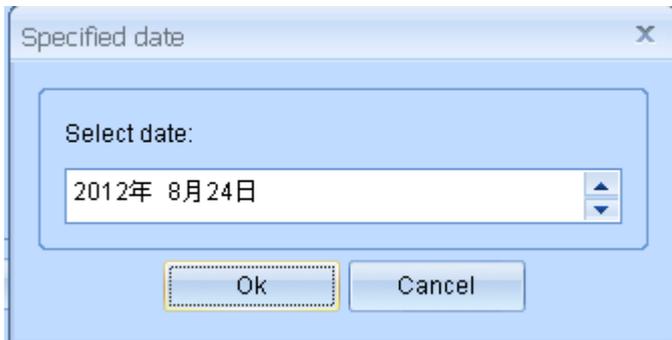
Recording Announcement Management

You can upload recording announcement to NAR5032, it will be broadcasted to both parties while the call is established.

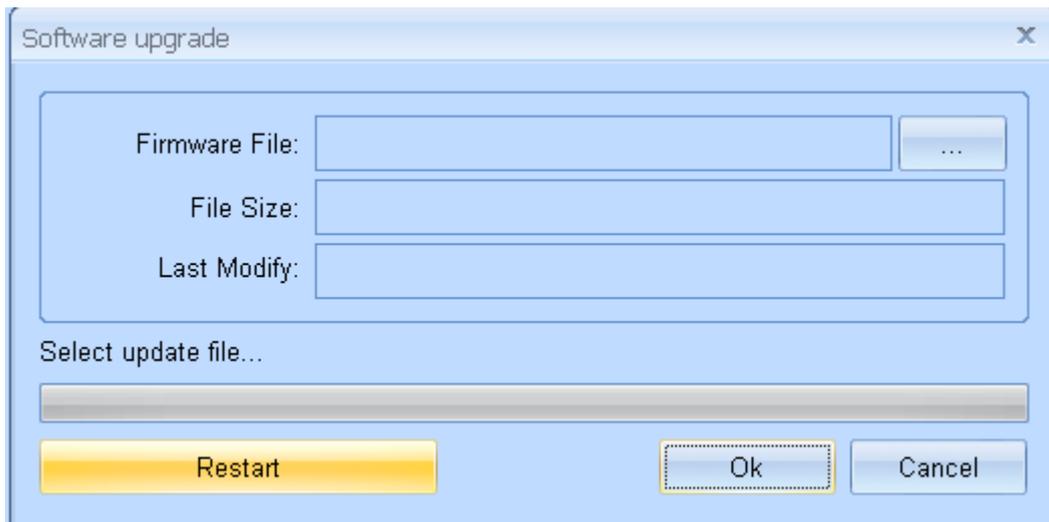


Repair database

NAR5032 uses SQLITE database, it saves files to \\Hard Disk\\SQLite\\2012\\201207\\CDR20120730.db daily. You can repair database by these files in case the channel's power off or records disappeared.



Software upgrade



The image shows a 'Software upgrade' dialog box with a light blue background. At the top, the title bar contains the text 'Software upgrade' and a close button (X). The main area is divided into two sections. The upper section contains three input fields: 'Firmware File:' with a text box and a browse button (three dots), 'File Size:' with a text box, and 'Last Modify:' with a text box. Below these fields is a section titled 'Select update file...' with a horizontal scrollbar. At the bottom of the dialog, there are three buttons: a yellow 'Restart' button, a blue 'Ok' button with a dashed border, and a blue 'Cancel' button.

You can upload specified file to NAR5032 for system upgrade. System restart is required after upgrade completed. Avoid to power off and keep channels idle during upgrade processing. .

Restore system default

Time Date	Remarks

Caution: Default setting requires administrator login to carry out the task. Administrator needs to re-enter the password to avoid abuse. Each operation is unable to be recovered and system log is unable to be removed.

1. Tool Bar



2. Current operation



3. Function column



4. NAR5032 ROM and CPU capacity indicator with date time
5. HDD used capacity percentage.

Used memory: 26.44% CPU:42%
Used HDD 4.36%
2012年8月24日 11:34:20

Card 1, 4 Installed properly
Card 2, 3 Error or not installed



Status Monitor



Start Monitor

Select a Channel to start monitoring conversation while the user account is authorized.

Stop Monitor

Terminate the monitoring.

Refresh

Refresh current status to PC

Display:

Program will display time, channel status, recording file, etc. User can hide some of them.

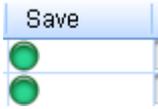
Channel	Name	Play	Sil.	Me.	Se.	AGC	Status	Voltage	CallerID	Name	Date-Time	Rec-Condition	file flag
01		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mute	00V 00				Wave Trigger	<input checked="" type="checkbox"/>
02		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
03		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
04		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
05		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
06		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
07		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
08		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
09		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	59V 00				Voltage	<input checked="" type="checkbox"/>
10		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
11		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	04V 00				Voltage	<input checked="" type="checkbox"/>
12		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	01V 00				Voltage	<input checked="" type="checkbox"/>
13		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
14		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
15		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	01V 00				Voltage	<input checked="" type="checkbox"/>
16		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Off	00V 00				Voltage	<input checked="" type="checkbox"/>
17		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	59V 00				Voltage	<input checked="" type="checkbox"/>
18		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	59V 00				Voltage	<input checked="" type="checkbox"/>
19		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	60V 00				Voltage	<input checked="" type="checkbox"/>
20		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	61V 00				Voltage	<input checked="" type="checkbox"/>
21		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	58V 00				Voltage	<input checked="" type="checkbox"/>
22		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	58V 00				Voltage	<input checked="" type="checkbox"/>
23		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	58V 00				Voltage	<input checked="" type="checkbox"/>
24		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	58V 00				Voltage	<input checked="" type="checkbox"/>
25		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	90V 00				Voltage	<input checked="" type="checkbox"/>
26		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	98V 00				Voltage	<input checked="" type="checkbox"/>
27		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	90V 00				Voltage	<input checked="" type="checkbox"/>
28		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	98V 00				Voltage	<input checked="" type="checkbox"/>
29		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	90V 00				Voltage	<input checked="" type="checkbox"/>
30		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	98V 00				Voltage	<input checked="" type="checkbox"/>
31		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Charging	00V 00				Voltage	<input checked="" type="checkbox"/>
32		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Idle	93V 00				Voltage	<input checked="" type="checkbox"/>

<table border="1"> <thead> <tr><th>Channel</th></tr> </thead> <tbody> <tr><td>01</td></tr> <tr><td>02</td></tr> <tr><td>03</td></tr> <tr><td>04</td></tr> </tbody> </table>	Channel	01	02	03	04	<p>Channel No.01-32. Black label is for Card No. 1-4. Card 1: Channel 01-08 Card 2: Channel 09-16 Card 3: Channel 17-24 Card 4: Channel 25-32</p>
Channel						
01						
02						
03						
04						

<table border="1"> <thead> <tr><th>Play</th></tr> </thead> <tbody> <tr><td><input type="checkbox"/></td></tr> </tbody> </table>	Play	<input type="checkbox"/>	<p>Recording announcement enabled indicator.</p>
Play			
<input type="checkbox"/>			

<table border="1"> <thead> <tr><th>Silence</th></tr> </thead> <tbody> <tr><td><input checked="" type="checkbox"/></td></tr> <tr><td><input checked="" type="checkbox"/></td></tr> <tr><td><input checked="" type="checkbox"/></td></tr> </tbody> </table>	Silence	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<p>Mute enabled indicator. Enabled/Disabled by specific hot key Green: Disable Red: Enable</p>
Silence					
<input checked="" type="checkbox"/>					
<input checked="" type="checkbox"/>					
<input checked="" type="checkbox"/>					

<table border="1"> <thead> <tr><th>Monitor</th></tr> </thead> <tbody> <tr><td></td></tr> </tbody> </table>	Monitor		<p>Monitor indicator. Only one channel can be monitored by a PC Headset symbol: Being monitored.</p>
Monitor			
			



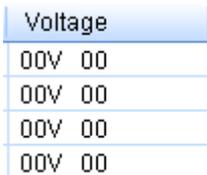
Save or not save indicator.
 NAR5032 will not save the calls for following situations
 a. Hot-t key recording. The call is unable to be saved until the specified hot-key is pressed
 b. Polarity reversal recording. The call is unable to be saved until polarity reversal signal received.
 C. Not record phone and extension number. Be out of recording time section.



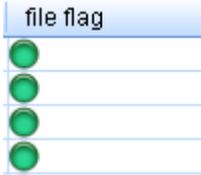
AGC indicator
 AGC: Automatic Gain Control



Channel Status
 Indicate channel status. Include: idle, power off, dialing, etc



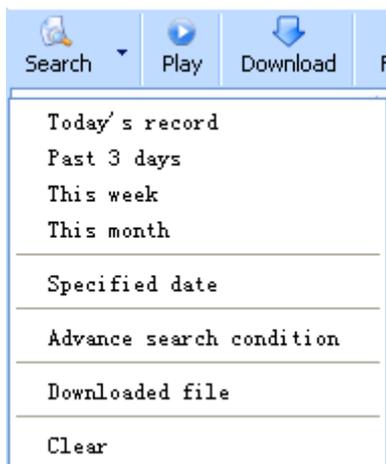
Current channel voltage
 No landline in: 1-3 V Power off
 Idle: >30V
 Dialing: 5-24V



Create recording file establishing indicator
 Indicate whether NAR5032 is recording calls properly. If the HDD is disconnected or unformatted, the indicator will not appear.
 Suggest: Record the calls 1min after NAR5032 power on.

Recording



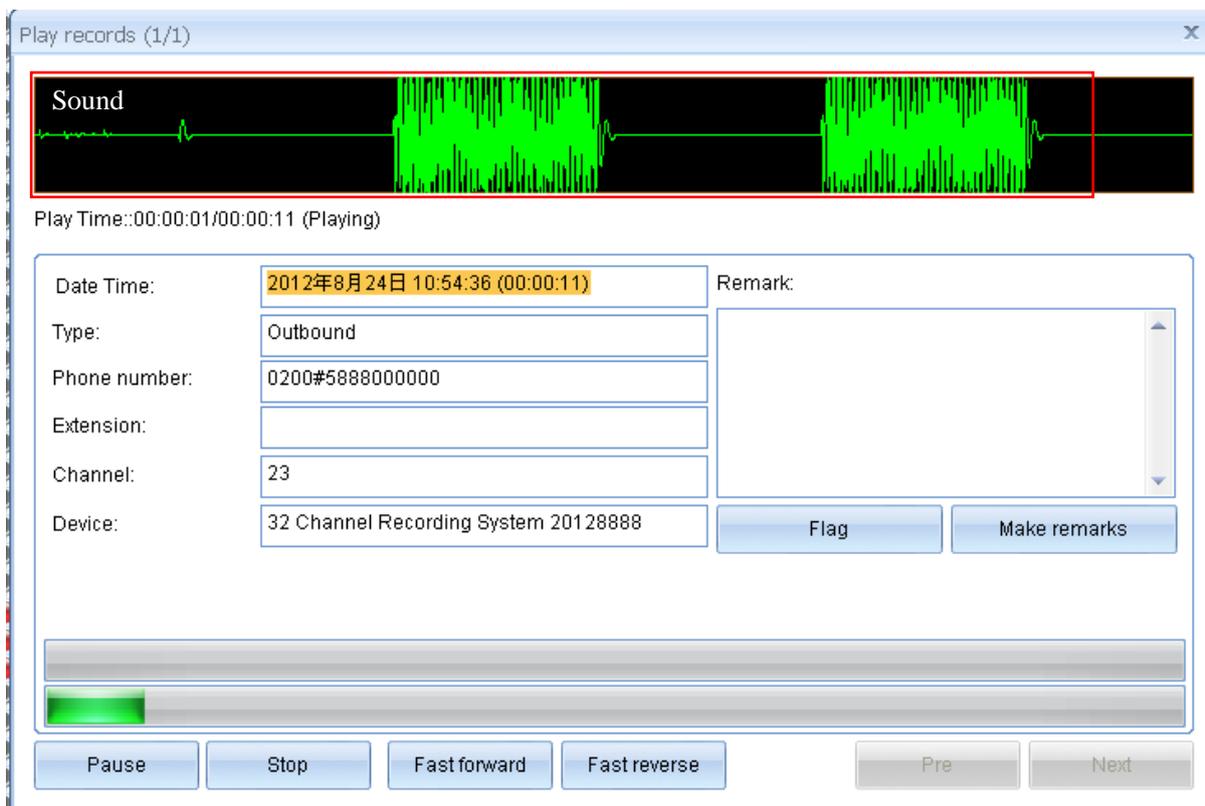


There are several time spans for quick search. If the records are searched before, the program will compare with database with last search.

- a. Databases are different, the program will synchronize with NAR5032 again.
- b. Databases are the same, the program will look-up local synchronized database.

查看本机下载记录 Open local PC download path, list the downloaded files.

 Select single or multi recording files to playback. Recording files will be downloaded to local PC simultaneously for next playback.



Download NAR5032 recording files to local PC. Downloaded file will not be downloaded twice.
Suggest: a. Carry out this task while system is idle.
b. Do not change download directory to avoid duplicated download.



Add remarks to recording files



Important recording files mark. The flagged file will not be deleted directly by mistake operation unless restore system to default.



Delete the recording file from NAR5032, 2 options:
a. Delete the audio file and remain the CDR
b. Delete both audio file and CDR
The operation will be listed in system log



Export CDR to Excel



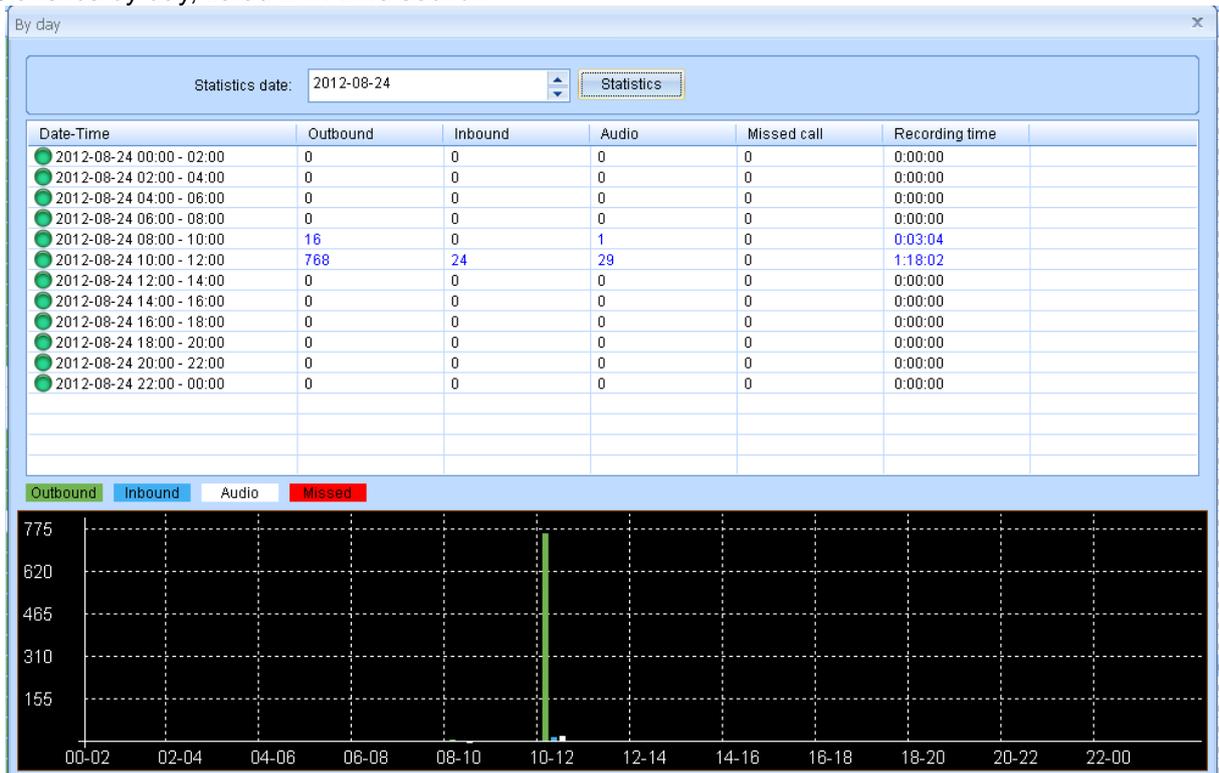
Send selected recording file to specified email address. Please note the file size.


Statistics ▾ Statistics recording files by day/week/month, including inbound/ outbound/ missed calls.

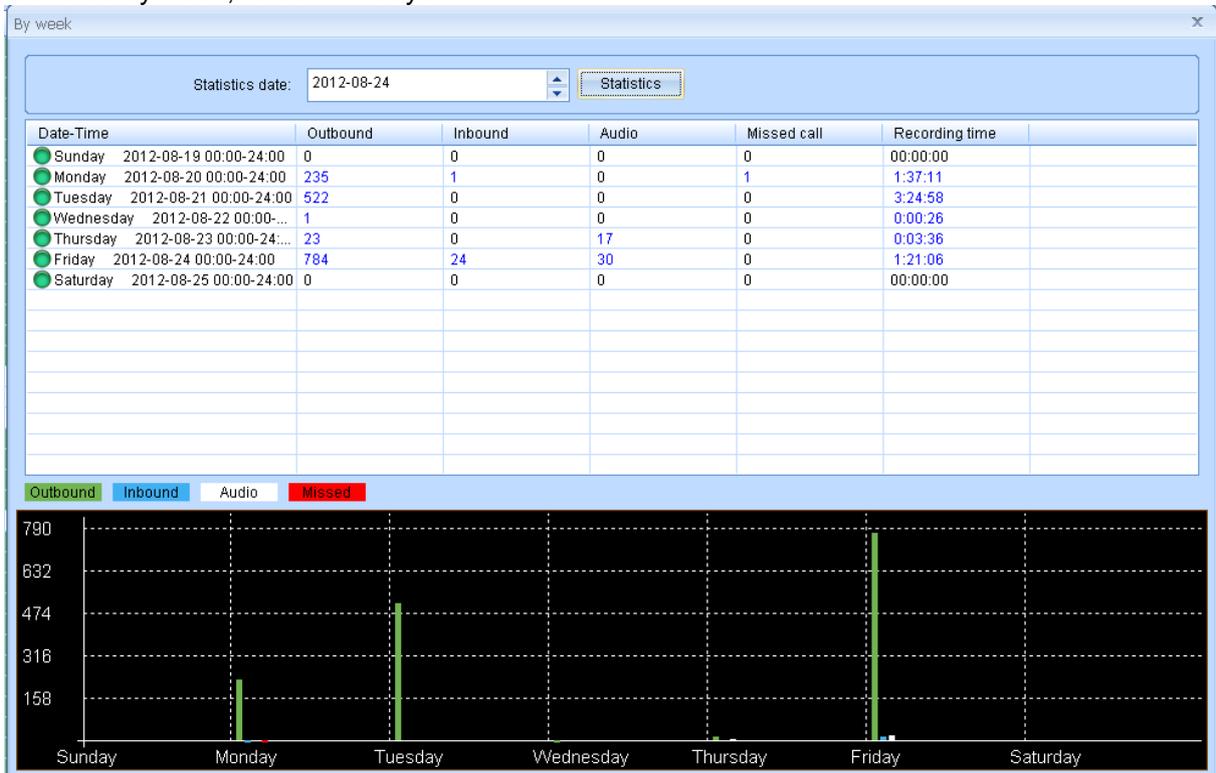
Call types are distinguished with different color.

Outbound
Inbound
Audio
Missed

Statistics by day, listed with time section



Statistics by week, listed with days



B Statistics by month, listed with dates



 Auto backup ▼ Online user can set auto backup in program. The recording files and CDR in NAR5032 will be downloaded to local PC on specific time for backup.

Auto backup is carried out by day/week/month from NAR5032 or not backup.

By day: Automatic backup daily on specific time

By week: Automatic backup weekly on specific day (Sun-Sat)

By month: Automatic backup monthly on specific date.

Not backup: Disable the auto backup function.

Start: 22:00 ▲▼ End: 08:00 ▲▼ Start and stop time for daily backup. Recommend: off-work time or system idle to reduce NAR5032 system and network occupation..

Start from date: 2012年 7月 1日 ▲▼ Last backup date: 2012年 8月24日 ▲▼ Start date: User can setup a date to start backup, normally it is the system initial date. Last date: System will display previous backup date

Phonebook

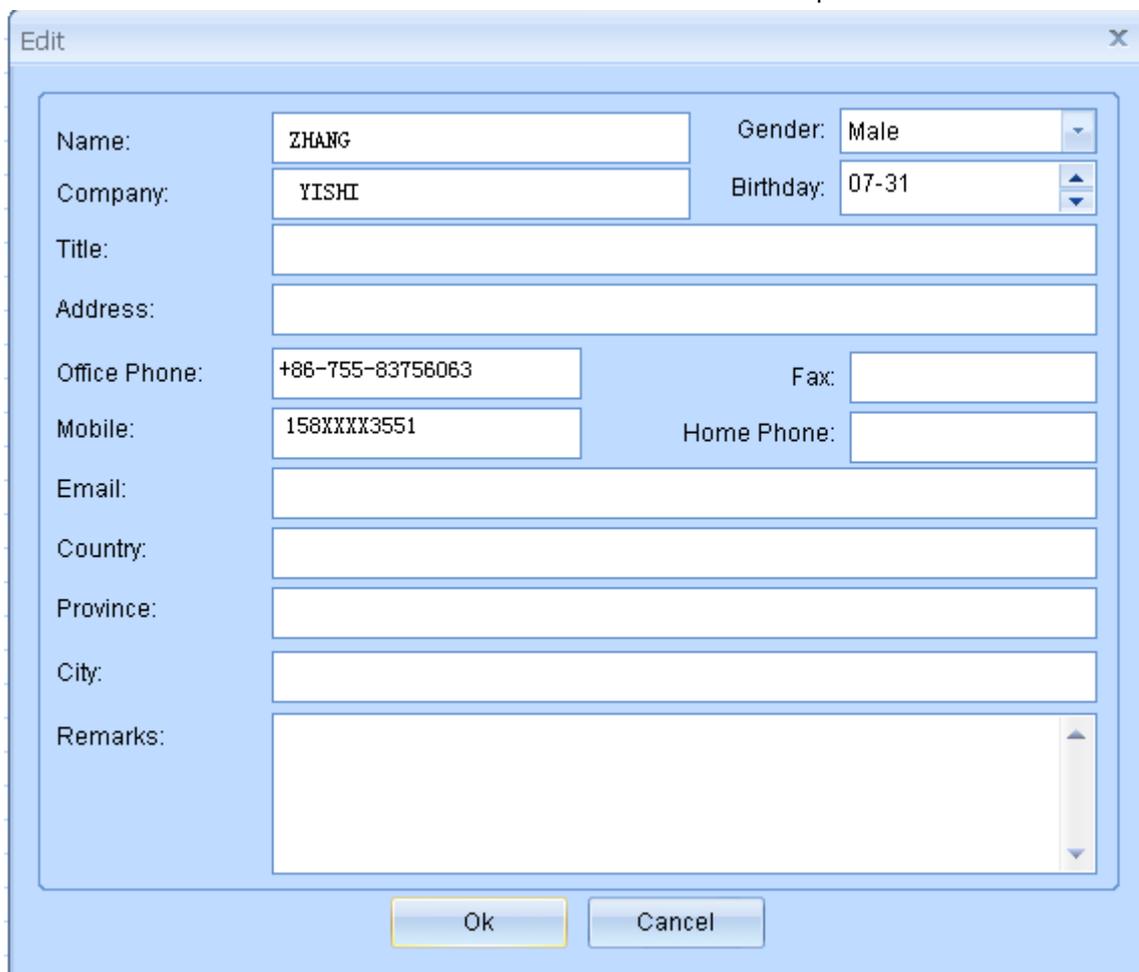
It includes Extension setting, Phonebook, Exception extension numbers and exception phone numbers.



Extension setting: The parameter works with SMDR function. The recording file will include extension number and name if the setting completed.

Name	Number	Remark
 222	ken	

Phonebook: Inbound and outbound number will be saved with phonebook information.



The image shows an 'Edit' dialog box for a contact entry. The fields are as follows:

Name:	ZHANG	Gender:	Male
Company:	YISHI	Birthday:	07-31
Title:			
Address:			
Office Phone:	+86-755-83756063	Fax:	
Mobile:	158XXXX3551	Home Phone:	
Email:			
Country:			
Province:			
City:			
Remarks:			

Buttons: Ok, Cancel

Name	Company	Title	Address	Office Phone	Mobile	Email
 张三	xxxx电话录音公司	经理	广东省深圳市	123456789	136xxx11422	

Excepted extension number: It works with SMDR. You can configure specified extension number not be recorded.

Excepted phone number: You can configure specified phone not to be recorded

Blacklist: Alert message will be generated once inbound /outbound number is in blacklist

System Setting

1. **System Parameter** Channel Parameter Voice Trigger Network Hard Disk/Log Recording Section PBX SMDR Other System

The parameter is effective to entire system instead of single channel.
2. Pause time for Rec after dialing(s):

It is the pause time from first digit dialing to start recording. If the value is 0, the call will be recorded entirely from pick up.
3. Min.Recording Time(s):

The parameter setting is to avoid misdialing recording.
Recommend: 5s
4. Max.Recording Time(m):

It limits recording time to avoid large size audio file.
5. Waiting time after dialing finished(s):

User can set interval time between two DTMF digits. If the interval time is more than 7s, the latter DTMF digit will not be saved and shown in program. If the interval time is 0, all the DTMF digits will be displayed. Recommend: 7s
6. Ring END time (Missed call):

It is the interval time between ring tones. If the interval time is more that 7 s, the call will be determined as a missed call. Recommend: >5s
7. Inbond number receiving completed(ms):

This parameter for inbound call DTMF receiving only .
8. Audio file format:

The recording file will be saved as followed format

 - A. wav Normal audio file to be played by any PC.
 - B. avl Encrypted audio file to be played by specified PC program
 - C. xtr Encrypted audio file to be played by specified PC program.
9. Save missed call:

Enable /Disable to save missed call.

10. Save non-record number: Yes
 Enable/disable to save non-record number of outbound call.
11. Save DTMF during incoming call: Yes
 Enable/Disable to save DTMF during incoming call. Yes to save all including extension number dialing from inbound call.
12. Partition file for exceed time record: Yes
 The parameter works with parameter 11. You can split the recording file to save in HDD
 Recommend: Yes
13. Save TMP to HDD: Yes
 Enable/Disable to save tmp file. Beside recording file, system will generate a tmp file with CDR information for each call. Recommend to enable this function, it will be useful for system repairing.
14. Device Timer: 2012-08-24 11:51:13 Synchronize device
 User can set-up current NAR5032 system time.
15. Time Synchronization: Auto with admin logon
 a. Synchronize with admin's PC, admin login required.
 b. Synchronize with FSK Caller ID
 c. No synchronization
16. Hot key for start recording:
17. Hot key for stop recording:
 Command for start or stop manual recording by DTMF hotkey
18. Start hide dialing digital:
19. Hide dialing digital length: 0
 Command for hide DTMF digital particular for credit card number and the length of it. The numbers will be replaced by ***
 For example, (18)=556 (19)=10. As long as system receives 556 during the calls, it will show 10times * in the program instead of private card information.
20. Start mute recording:

21. Stop mute recording:

Command for Start/Stop mute recording manually.

Start: Red light

Stop: Green light.

Recommend: Set up particular DTMF digit to avoid mis-dialing.

22. Filter ABCD among number:

Filter ABCD in DTMF Caller ID.

23. Compare phone book number length(better >6dig)

Basis of Caller ID comparison with phone book

24. Use buffer:

Use buffer to reduce times of HDD write.

Recommend: Yes

25. Minimum length of the incoming phone number

Basis of inbound call determination. It is able to identify the call signals from the noise

Recommend:3

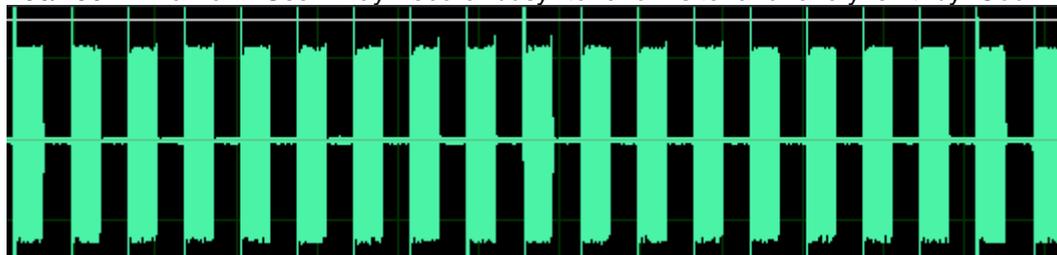
26. Save Port power off log

Power off: Without landline in channel. The parameter determines if save the status in system log.

Recommend: No.

27. 忙音ON/OFF时间:单位MS(10-1000)

Identify busy tone ON/OFF time (ms) on the landline. Mostly ON/OFF = 500/500in China and 250/250 in Taiwan. User may record busy tone on site and analyze it by Cool Edit.



28. 忙音侦测音量等级:

Identify busy tone in auto-answer mode. Besides busy tone ON/OFF time, user has to set up busy

tone volume level to distinguish sound and soundless. Therefore, misjudgment during talking would be avoided.

29. 周六全天开通自动应答 是
- Enable/Disable auto-answer on Saturday. Enable it for auto-answer all day long on Saturday and auto-answer time sections setting will be ignored.

30. 周日全天开通自动应答 是
- Enable/Disable auto-answer on Sunday. Enable it for auto-answer all day long on Sunday and auto-answer time sections setting will be ignored.

31. 不录音号码比对方法 模糊比对
- Non-Record numbers comparison.
- a. Fuzzy: Call will not be recorded if the non-records numbers is included in whole number string.
Example: 200 is Non-record number, the calling number 92001 would NOT be recorded.
- b. Precise: Call will not be recorded if the calling number is exactly match with original setting.
Example: 200 is Non-record number, the calling number 92001 would BE recorded.

Configure it carefully to save the necessary call record.

Channel Parameter

1. Channel Name:
- You can create a name for each channel. The name will be along with recording file, it also will be shown on monitor page.
For example "Accounting 0755-27746xxx"
2. PBX Channel: 0
- This parameter works with PABXSMDR. NAR5032 channel must be corresponded with PABX channel.
3. Recording condition: Voice Trigger
- Normally we use Voltage for most analog lines.
- A. **Key recording:** Manually recording by press hot key.
Refer system setting 16, 17
- B. **Voice trigger:** Start recording while sound reaches specified level. Otherwise, the call will not be recorded. Particular parameter for microphone & interphone recording. DTMF signal will be not recorded.

C. **Continuous Recording:** Non-stop recording. Usually for microphone and interphone recording. DTMF during the call will not be recorded.

D. **Polarity Reversal:** Start recording while polarity reversal signal received.

Remark: You need to subscribe polarity reversal signal service from local telecom service provider.

4. Record volume level: Volume: 11

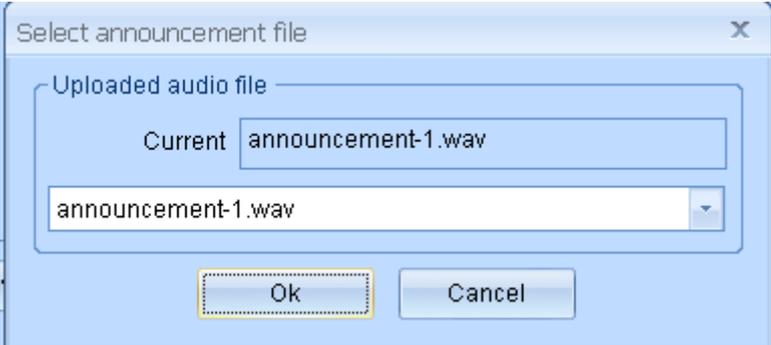
The greater level comes with greater volume of recording file and noise.

5. Play volume level: Volume: 11

The greater lever comes with greater volume of playing volume and noise.

6. Recording announcement: Off

Enable/Disable recording announcement. Recording announcement will be broadcasted to both side of a call and it will be saved in recording file.

7. 

Upload an existed announcement file to NAR5032.

8. Recording reminder Off

Enable to play recording reminder to both side during a call. .

Reminder file " **rec-remind.wav**" is less than 2second and unable to modify.

9. Recording reminder interval(s): 15

10. Power-off Max. voltage: 3

This is voltage level to verify if the channel is plug with landline.

Recommend: 3V

11. Hook On Min.voltage:
 This is minimum voltage setting to verify if telephone is hook on.
 Recommend: 25V
12. Auto AGC :
 AGC: Automatic Generation Control. To average the sound of both parties in a call.
 Recommend: Disable this function in voice trigger recording.
13. On hook detection(100ms-2000ms):
14. Off hook detection(50ms-1000ms):
 Time elapse setting for specified voltage of ON/OFF hook.
15. Ring ON time(100ms-500ms):
16. Ring OFF time (100ms-500ms):
 Time setting for specific voltage to verify ringtone ON and OFF.
17. Power-off detection(500ms-3000ms):
 Definition of landline plug in.
 Power on: <value
 Power off: >value
18. Polarity reversal time:(50ms-1000ms):
 Definition of polarity reversal lasting time.
19. The card is re-specified number of times:
 Read only.
20.

Recording section

<input checked="" type="checkbox"/> Section1	<input checked="" type="checkbox"/> Section5
<input checked="" type="checkbox"/> Section2	<input checked="" type="checkbox"/> Section6
<input checked="" type="checkbox"/> Section3	<input checked="" type="checkbox"/> Section7
<input checked="" type="checkbox"/> Section4	<input checked="" type="checkbox"/> Section8

 Generally NAR5032 record the phone call in all section. Time setting see recording time section.

自动应答功能 开启

自动应答时间段一: 开启 12:40 13:20

自动应答时间段二: 开启 20:00 08:20

自动应答时间段三: 关闭 00:00 00:00

自动应答时间段四: 关闭 00:00 00:00

最大留言时间 (30秒-300秒)

自动应答启动等待铃声次数:

自动应答播放语音宣告: 开启 声音

21.

自动应答时间段一:	开启	12:40	13:20
自动应答时间段二:	开启	20:00	08:20
自动应答时间段三:	关闭	00:00	00:00
自动应答时间段四:	关闭	00:00	00:00

Channel setting for auto-answer.

Time Section: 24Hours range

Voice message: 30-300s from start prompts..

Auto- answer ring: Ring times before auto-answer

Auto-answer announcement: Load specified auto-answer announcement to device.

Recommend file time: Less than 1 min

Voice Trigger parameter

User needs to configure sound level and sensitivity when the channel is set voice trigger recording.

Sound lasting time (ms): The specific level sound lasts time for start recording. The lower value comes with higher sensitivity.

Silent lasting time (ms): The silent sound lasts time for stop recording. Configure a large value to avoid multiple recording files caused by silent during conversation.

Volume level: Voice trigger sound lever. The lower value causes easier triggered.

Sound lasting time:	<input type="text" value="100"/>
Silence lasting time:	<input type="text" value="2000"/>
Volume level:	<input type="text" value="11"/>
<input type="button" value="Read"/> <input type="button" value="Update"/>	

Network Setting

User can configure network setting same as PC.

<input checked="" type="radio"/> Obtain an IP address automatically	IP Address:	<input type="text" value="192 . 168 . 22 . 108"/>
<input type="radio"/> Use the following IP address	Subnet mask:	<input type="text" value="255 . 255 . 255 . 0"/>
	Default gateway:	<input type="text" value="192 . 168 . 22 . 1"/>
	Alternate DNS server:	<input type="text" value="192 . 168 . 22 . 1"/>
	Preferred DNS	<input type="text" value="202 . 96 . 134 . 33"/>
	Network MAC Address:	<input type="text"/>
		<input type="button" value="Read"/> <input type="button" value="Update"/>

HDD Parameter and system log

HDD reserved space: It is for HDD read/writer buffer.

Recommend: 10%

Loop recording: Enable this function, the latest record will cover the initial recorder when HDD is full. Disable it, NAR5032 will stop recording when HDD is full until it is exchanged.

Reserved space:	<input type="range" value="10%"/>	10%
Loop recording:	<input type="text" value="On"/>	
Loop recording results:	<input type="text" value="No loop recording in system"/>	

It indicates HDD current space, total operation time and remaining time. Remaining time is calculated by average parameter of used HDD. Exact remaining time is based on actual conditions.

HDD capacity:	1863.00 GB
Use HDD space:	81.21 GB 4.36%
Total run time:	902 Hour 33 Minute 15 Second
Est.Remaining time:	55498 Day,Estimated to: 08-05-2164 HDD full

Time Date	IP Address	User Name	Command	Content
2012年8月24日 0:02:25	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 892:50:00 Online users: 1
2012年8月24日 0:41:52	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 893:20:00 Online users: 1
2012年8月24日 1:21:22	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 893:50:00 Online users: 1
2012年8月24日 2:00:45	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 894:20:00 Online users: 1
2012年8月24日 2:40:09	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 894:50:00 Online users: 1
2012年8月24日 3:19:40	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 895:20:00 Online users: 1
2012年8月24日 3:59:02	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 895:50:00 Online users: 1
2012年8月24日 4:38:25	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 896:20:00 Online users: 1
2012年8月24日 5:17:59	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 896:50:00 Online users: 1
2012年8月24日 5:57:22	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 897:20:00 Online users: 1
2012年8月24日 6:36:45	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 897:50:00 Online users: 1
2012年8月24日 7:16:18	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 898:20:00 Online users: 1
2012年8月24日 7:55:42	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 898:50:00 Online users: 1
2012年8月24日 8:35:06	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 48 MB/65 MB Run time: 899:20:00 Online users: 1
2012年8月24日 8:43:59	192.168.22.111 192.168.22.111	admin	User logon	
2012年8月24日 8:46:23	192.168.22.111 192.168.22.111	admin	User logout	
2012年8月24日 8:46:53	192.168.22.111 192.168.22.111	admin	User logon	
2012年8月24日 8:53:38	192.168.22.111 192.168.22.111	admin	Start monitoring	Channel: 0
2012年8月24日 8:54:05	192.168.22.111 192.168.22.111	admin	Stop monitoring	Channel: 0
2012年8月24日 8:57:29	192.168.22.108	Record Device	Port power-down	Port power-down: 30 00V (03V - 25V)
2012年8月24日 8:58:10	192.168.22.111 192.168.22.111	admin	File download	\\Hard DiskRecordBackup\20120824085732-O-L09-EN-0200#wav
2012年8月24日 9:15:35	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 47 MB/65 MB Run time: 899:50:00 Online users: 1
2012年8月24日 9:55:03	192.168.22.108	Record Device	System self-check	HDD capacity: 1782 GB/1862 GB Used capacity: 47 MB/65 MB Run time: 900:20:00 Online users: 1

System log: The critical operation will be recorded in system log.

Recording Time Section

Flexible combined with 8 recording time sections. It is used in channel setting, special for recording storage option.

The image shows a configuration window with a light blue background. It is organized into eight sections, labeled Section1 through Section8, arranged in two columns and four rows. Each section contains two time input fields: 'Start' and 'End'. All time fields are currently set to '00:00'. Below the sections, there are three buttons: 'Default', 'Read', and 'Update'.

PABX SMDR

There are 2 methods to gain the SMDR data from PABX

1. RS232
2. TCP/IP

User needs to analyze original data of PABX channel number, extension number from followed main parameters and input them to program setting.

Outbound call

1. Call symbol: The mark to distinguish the call type (Outbound/Inbound call) in character string. Most PABX show "TO " to indicate outbound call.
2. Extension position: User have to count the extension number starting position in character strings.
3. Extension number length: Extension number length.
4. PABX channel number position: User has to count the channel number starting position in character strings.
5. Channel number length: PABX channel number length.

From followed example, user can read out outbound call information

1. Call symbol: \$TO
2. Extension position: 14th
3. Extension number length: 2.
4. PABX channel position: 24th

5. Channel number length: 2

Remark: NAR5032 is able to decode DTMF for call number itself, the phone number from SMDR will be ignored.

Outbound call:

Same as Inbound call verification.

```
$TO:11/05/30 14 14 01 0229524929 0000 17:54:59 00046 00000
$TO:11/05/30 14 14 01 0229524929 0000 17:54:59 00046 00000
$TO:11/05/30 14 14 01 0229524929 0000 17:54:59 00046 00000

$TO:11/05/30 14 14 01 0229524929 0000 17:54:59 00046 00000
$TO:11/05/30 19 19 07 0225859650 0000 17:53:29 00033 00000
$TO:11/05/30 24 24 01 09328 0000 17:53:56 00002 00000
$TO:11/05/30 12 12 04 123 0000 17:53:07 00002 00000
$TO:11/05/30 12 12 03 123 0000 17:52:46 00016 00000
$TO:11/05/30 12 12 01 123 0000 17:52:15 00012 00000
$TO:11/05/30 39 39 01 2479163 0000 17:49:41 00062 00000
$TO:11/05/30 39 39 01 2586630 0000 17:49:23 00015 00000
$TO:11/05/30 21 21 04 0929560498 0000 17:48:17 00010 00000
$TO:11/05/30 17 10 07 022562211822 0000 17:44:37 00173 00000
```

The screenshot shows a configuration window with three main sections: 'Outbound SMDR', 'Inbound SMDR', and 'Device is connected with PBX'. Each section contains several input fields for Symbol, Extension position, Extension length, Channel position, Channel length, Number position, and Number length, all currently set to 0. The 'Device is connected with PBX' section has a checked checkbox and dropdown menus for Com (COM1), Baud rate (110), Binary (5), Parity (NOPARITY), and Stop (1). There are 'Read', 'Update', and 'IP SMDR' buttons at the bottom right.

PABX SMDR Protocol

This is a close-up of the 'Device is connected with PBX' checkbox, which is currently unchecked. Below it are dropdown menus for Com (COM1), Baud rate (110), Binary (5), Parity (NOPARITY), and Stop (1).

Do not check this option if there's no SMDR connected.

Please refer PABX user's manual about serial communication configuration for windows HyperTerminal operation

Gain SMDR data through TCP/IP

Most PABX support TCP/IP SMDR. Please refer PABX user's manual about SMDR output parameter.

1. PABX IP address: The IP address assigned to PABX

2. Connect Port: Port for PC connection (Provided by PABX)
3. Output Port: Normally it is same as connection port. Otherwise, user can set separately.
4. User Name: User name to login PABX.
5. Password: Password to login PABX

Inbound hold ,rev smdr create new item

Inbound Call on hold. Program will create new call record while the inbound call is on hold and transferred to another extension when SMDR is received.

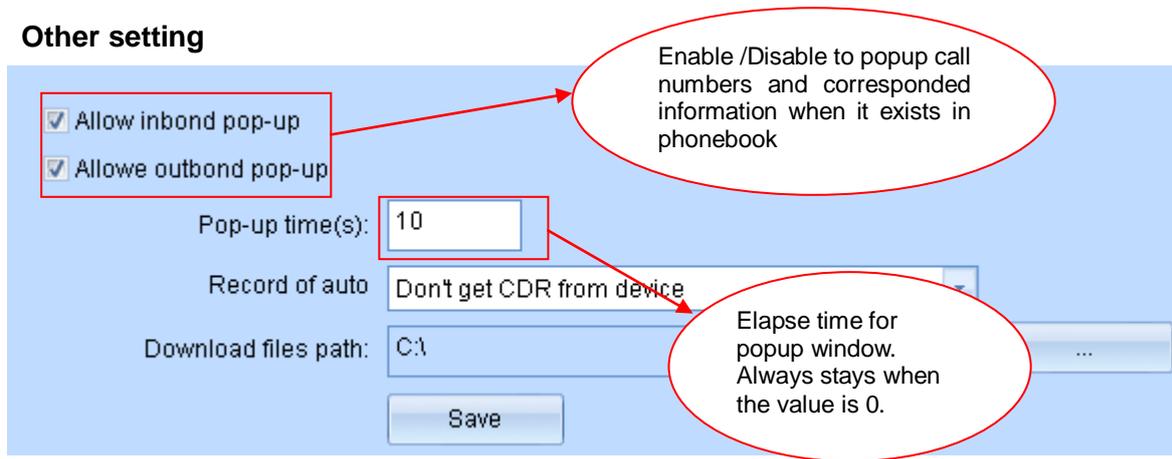
Outbound hold,rev smdr create new item

Outbound Call on hold. Program will create new call record while the outbound call is on hold and transferred to another extension when SMDR is received.

Extension hold time: Unit ms:2000ms-8000ms

Identify the extension is on hold or hang up for above call record settings.

Other setting



Software open automatic pop-up login window

Enable/Disable to pop-up login window while running PC program

Boot automatically run

Enable/Disable to run program while PC restart

When disconnected from the network sw automatically connect

Enable/Disable to re-connect network automatically while it is disconnected

Network disconnect then auto clear screen

Enable/Disable to clear screen while network is disconnected

Port for a long time to mention machine warning window pop up

Enable/Disable to remind long time hook off. It caused by a. Line error b. Handset is not hang up properly.

Port power-down pop-up warning window

Enable/Disable to remind power-off

Port call, long timeout warning window pop up

Enable/Disable to remind Channel time out.

Play sound when warning message happens

Enable/Disable to play alert on PC.

Black warning play sound

Enable/Disable to generate alert message for blacklist

Popup small inbound window

Enable/Disable inbound call pop-up window

Auto Sync.: Auto synchronization method if NAR5032 recording file and CDR are different with program's.

Downloaded files path: Do not change it frequently to avoid duplicated downloading and speed slowing down.

Online user



Online user: User who is log in NAR5032 now

Showing online time, online duration, IP address, software version and MAC address

User Name	Online time	Online duration	IP Address	Software Ver	MAC Address
 admin	2012-8-24 11:33:09 上午	02:10:02	192.168.22.111 / 192.168.22.111	Version1.0	0E-85-96-78-54-F2

User Management

Administrator can add new user to log in NAR5032

Default user: admin

Default password:1111.

User Name	Download permi...	Delete permission	Monitor permissti...	Play permission	System setting	Channel setting	User management
 admin	✓ Enable	✓ Enable	✓ Enable	✓ Enable	✓ Enable	✓ Enable	✓ Enable
 ken	✓ Enable	✓ Enable	✓ Enable	✓ Enable	✓ Enable	✗ Disable	✗ Disable

Add new account

User name: Max. 16 characters

Password: Max 16 characters

Enable the authorization for

1. Download recording records
2. Delete recording records
3. Play recording records
4. Monitor talking real time
5. System setting
6. Channel setting
7. User management
Add/Delete user account

User can assign various authorization levels for supervisor and staff in a firm.

For example, user can check all channels for supervisor's account and single channel only for staffs. When staff login NAR5032, only one line status is visible in his client program.

User name: ken

Password: ****

Confirm password: ****

Change password

All/Clear

- Download recording records
- Delete recording records
- Play recording records
- Monitor talking real time
- System setting
- Channel setting
- User management

All/Clear

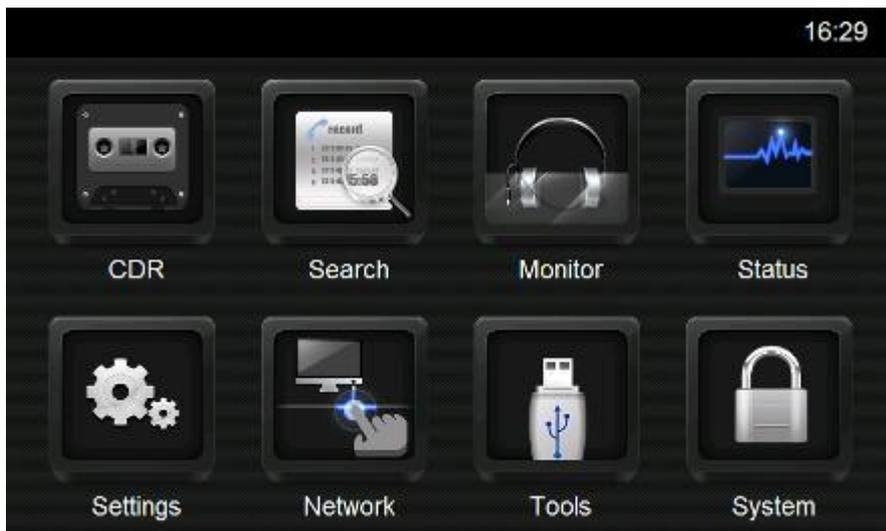
Visible channel

<input checked="" type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH9	<input checked="" type="checkbox"/> CH17	<input checked="" type="checkbox"/> CH25
<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH10	<input checked="" type="checkbox"/> CH18	<input checked="" type="checkbox"/> CH26
<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH11	<input checked="" type="checkbox"/> CH19	<input checked="" type="checkbox"/> CH27
<input checked="" type="checkbox"/> CH4	<input checked="" type="checkbox"/> CH12	<input checked="" type="checkbox"/> CH20	<input checked="" type="checkbox"/> CH28
<input checked="" type="checkbox"/> CH5	<input checked="" type="checkbox"/> CH13	<input checked="" type="checkbox"/> CH21	<input checked="" type="checkbox"/> CH29
<input checked="" type="checkbox"/> CH6	<input checked="" type="checkbox"/> CH14	<input checked="" type="checkbox"/> CH22	<input checked="" type="checkbox"/> CH30
<input checked="" type="checkbox"/> CH7	<input checked="" type="checkbox"/> CH15	<input checked="" type="checkbox"/> CH23	<input checked="" type="checkbox"/> CH31
<input checked="" type="checkbox"/> CH8	<input checked="" type="checkbox"/> CH16	<input checked="" type="checkbox"/> CH24	<input checked="" type="checkbox"/> CH32

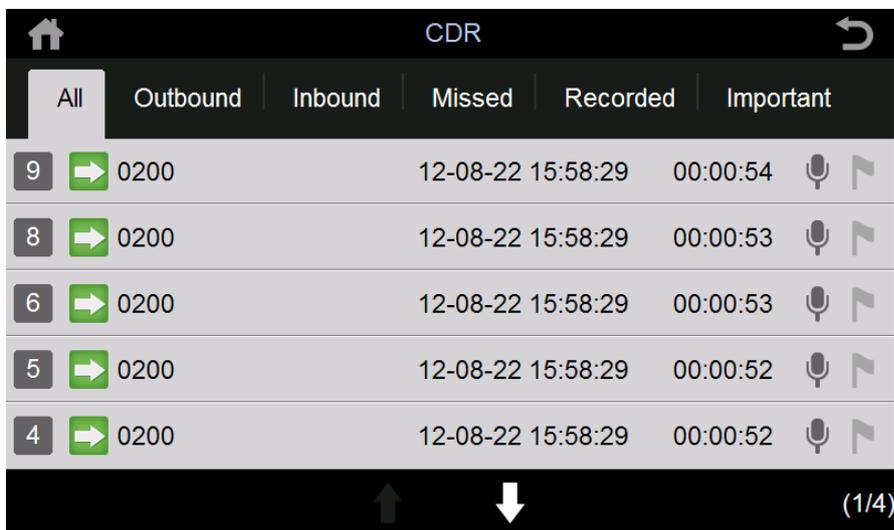
Ok Cancel

Touch screen

There are 8 function divisions on touch screen, including CDR, Search, Channel Monitor, Status, Settings, Network, Tools and System. .



CDR (Call Detail Recording)



1. Back
2. Back to main menu
3. Recording of Channel
4. Outbound call
5. Inbound call
6. Missed call
7. **0200** Telephone number 0200
8. **12-08-22 14:55:56** Start time and date
9. **00:01:25** Recording elapse HH:MM:SS

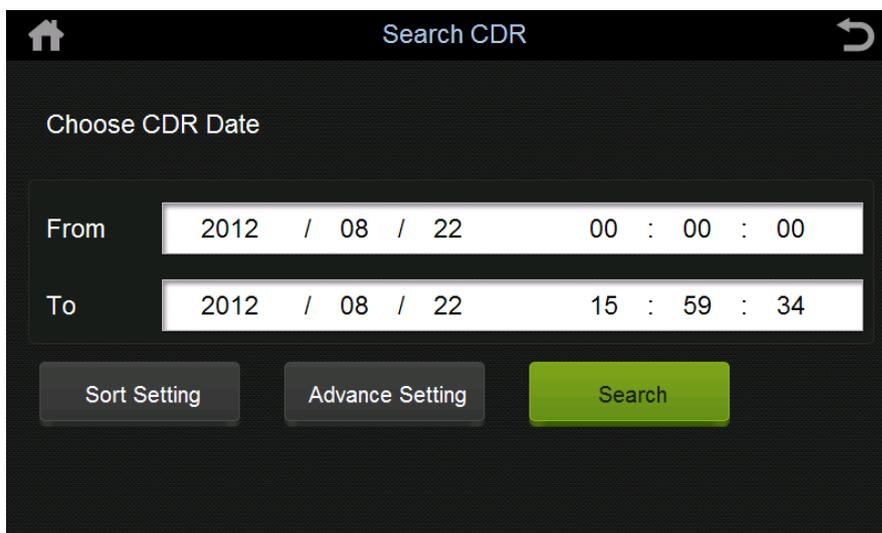
10.  Audio file
11.  Flag symbol for important call. Red: flagged Grey: None
12.  Page Down & Page Up. (Effective on bright one)
13.  Current page/Total page

Search CDR

Search the records by various conditions.

Recommend: Database is saved daily. Search speed depends on time span.

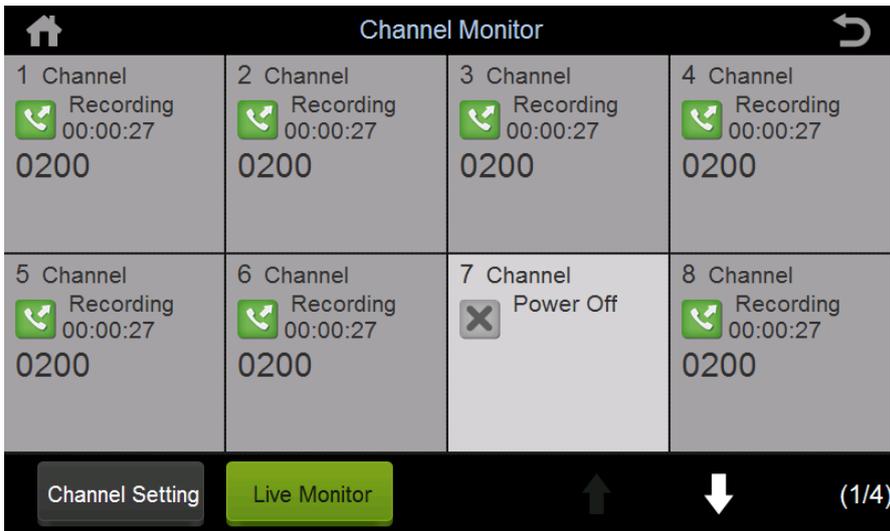
NAR5032 supports SQL searching as well.



The screenshot shows a mobile application interface for searching Call Detail Records (CDR). At the top, there is a home icon on the left, the title "Search CDR" in the center, and a refresh icon on the right. Below the title, the text "Choose CDR Date" is displayed. There are two input fields for date and time: "From" and "To". The "From" field contains the date "2012 / 08 / 22" and time "00 : 00 : 00". The "To" field contains the date "2012 / 08 / 22" and time "15 : 59 : 34". Below these fields, there are three buttons: "Sort Setting", "Advance Setting", and "Search". The "Search" button is highlighted in green.

Channel Monitor

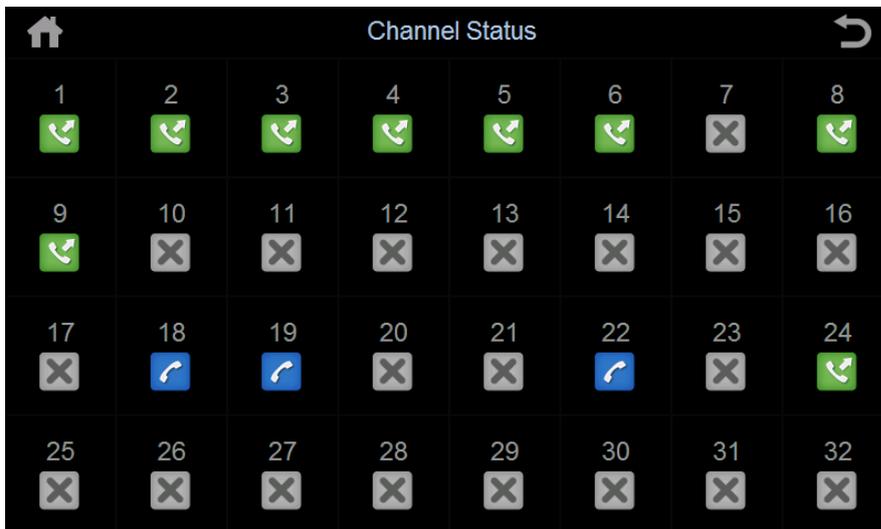
You can check one card (8 channels) in one page. It shows Channel number, status telephone number, recording time and status.



Channel Status

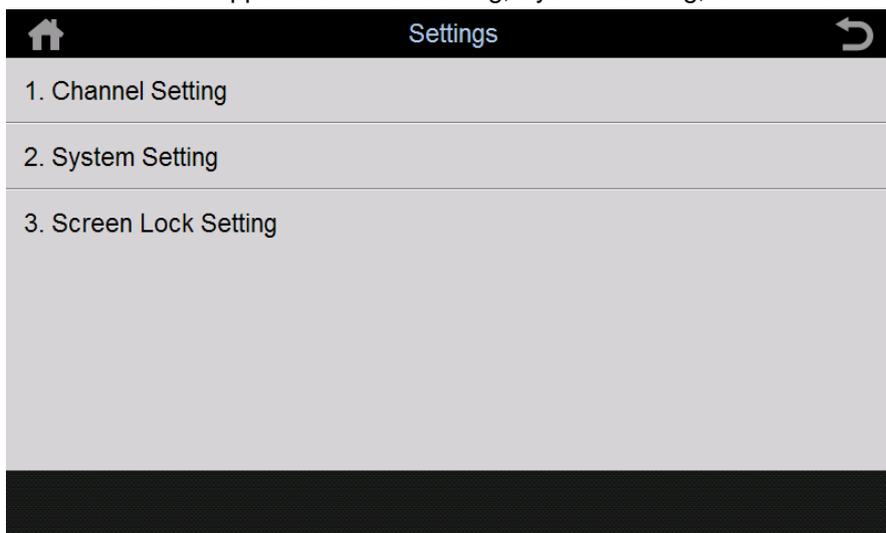
It shows instant status of 32 Channels. Symbol only.

1.  Dialing
2.  Idle
3.  Inbound call
4.  Outbound call
5.  Power off (Landline disconnected)
6.  Ringing



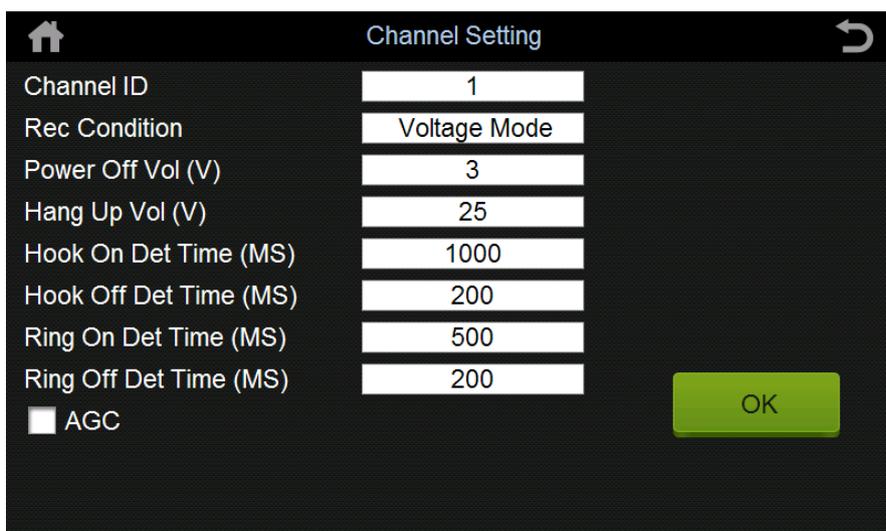
Setting

Touch screen supports Channel Setting, System Setting, Screen Lock Setting



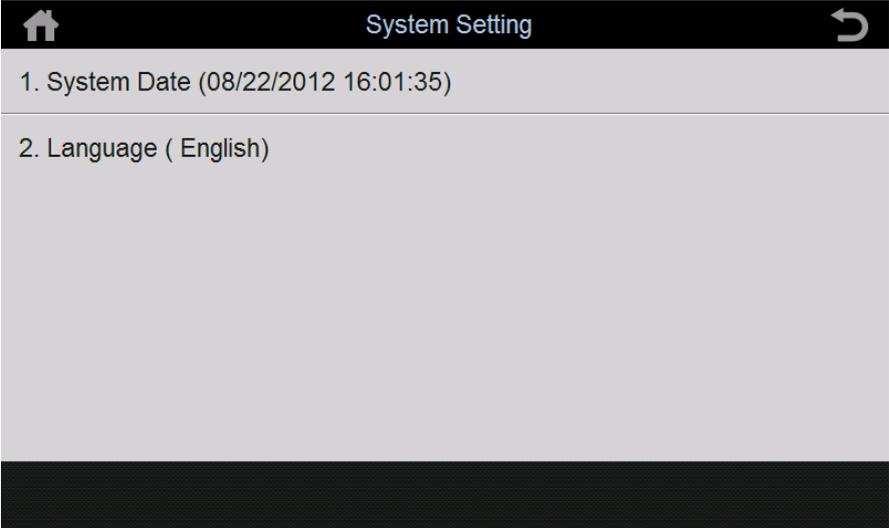
Channel Setting

Set up Channel 01-32 parameter (See PC program setting)

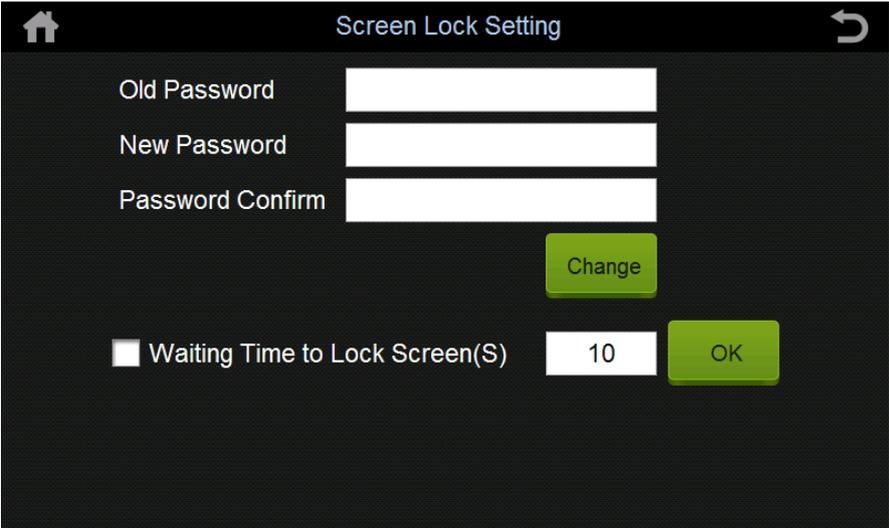


System Setting

Touch screen supports date and language setting only.



Screen Lock Setting



Network Configuration

Configure NAR5000 32 network detail. Restart NAR5032 after configuration.

IP Address Setting	DNS Address Setting	MAC Address Setting		
Automatically Assign IP	<input checked="" type="checkbox"/>			
IP Address	192	168	22	128
Subnet Mask	255	255	255	0
Default Gateway	192	168	22	1

Save

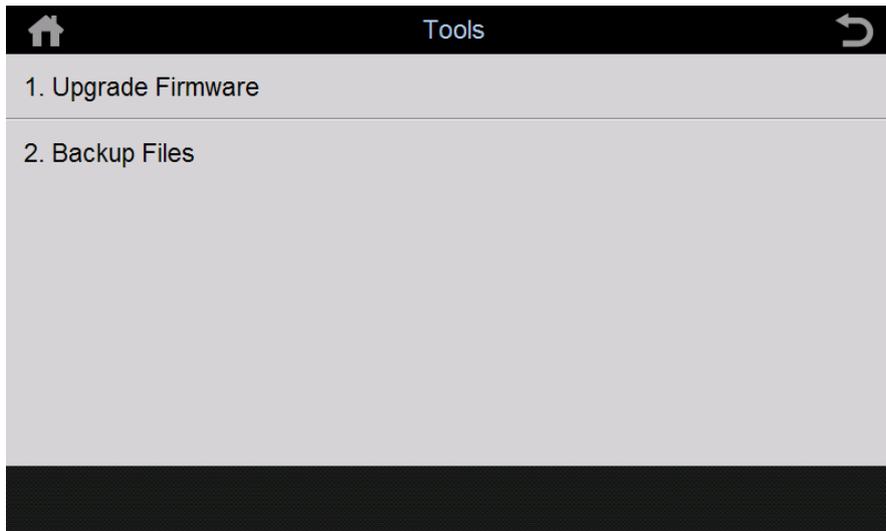
1 2 3 4 5 6 7 8 9 0 .

Tools

Plug in USB storage device to upgrade firmware (upgrade file enclosed) or backup.

Restart NAR5032 after upgrade file transfer completed.

FW_UPDATE directory ([phoneTouch.exe](#) [PhoneRec.exe](#))



System

Display system default information and program version.