ARTECH

AR400 USER MANUAL

Version1.0.0

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1 INTRODUCTION

Thanks for using Artech AR400. AR400 is very easy to install and work, no need to work with the pc. SD memory card is work as it's media store, 1G SD card support to save up to 80 hours recording and cycle recording also available. Touch Screen LCD. recording, playing and monitoring for whole day without a pc. The recording will be store in the memory card and here are the details.

- All talking records show the start/finish time and record model.
- Talking time, in/out No, channel no.
- Search the records by record model, time/date, start/finish the call, talking time. Tel no., No. name
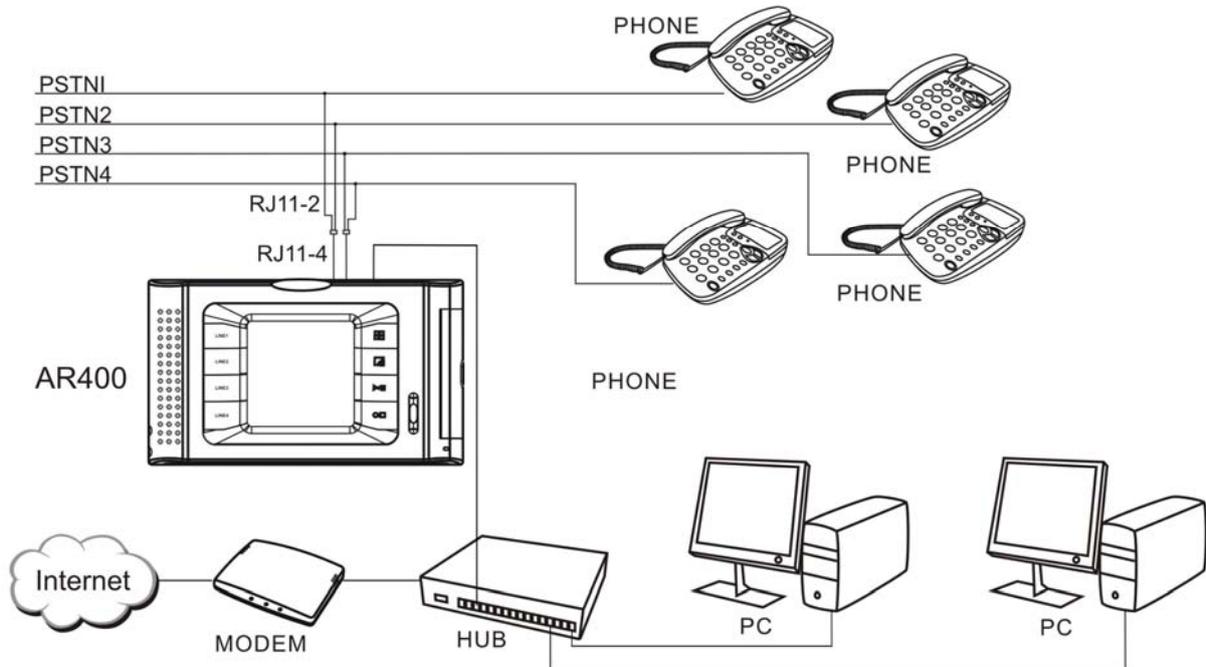
2 PACKING

1. AR 400
2. Installation CD
3. Twin-jack cables x 2 pcs
4. User Manual
5. DC18V adaptor
6. 2G SD memory card

3 SYSTEM REQUIREMENTS

Pentium 4 400 MHz CPU   or Higher

Windows XP/2000/NT, VISTA（Incompatible with Windows98, Win me OS）

100MB or more hard disk storage（more hard disk space required if back up is done via PC）

128 MB RAM

CD-ROM

LAN, ADSL, ISDN, 33.6K

Standard USB port

Standard RJ11 phone jack

4 AR400EXTERNAL FEATURES

Read this manual before switching ON AR400

Front View
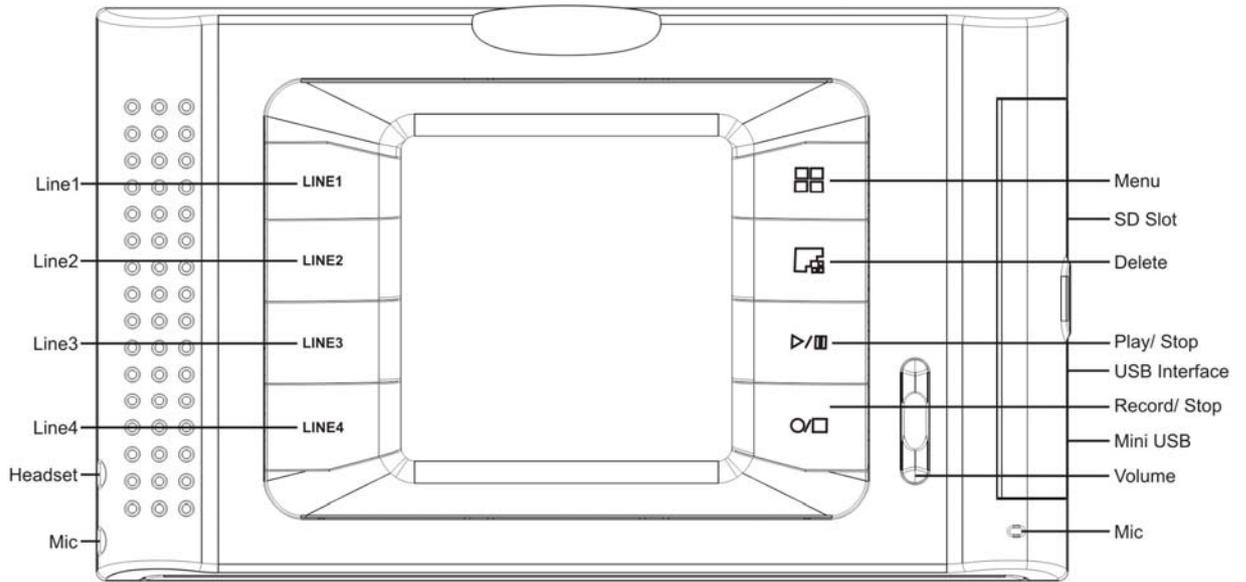
Line 1-4: When yellow light, it indicates incoming call; red light blinking slowly indicates call is being recorded
SD Slot: to insert SD card
USB port: Connects to external hard-disk or USB storage
Mini USB port: Not available for use
Note: Double-tap on icon to select

Back view
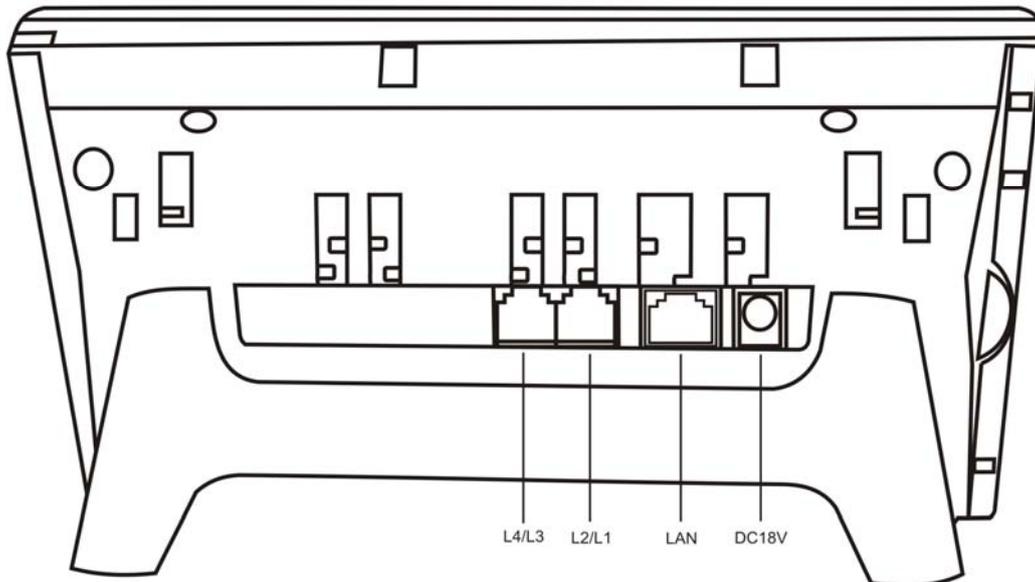
Main Functions:

4.1 CALL DATA RECORDS (CDR)

Records all call data including date, time, type of call, caller ID, duration, phone number and channel no..

Tap [icon] Return to previous menu   [icon] Outgoing call record

Tap [icon] Play selected record   [icon] Incoming call record

Tap [icon] Go to previous record   [icon] Missed call

Tap [icon] Go to next record   [icon] Voice recorded

Tap [icon] To mark important call

4.2 SEARCH

Search for desired records stored in SD memory card by various of conditions/ parameters.

Tap ⟲ Return to previous menu

Tap ◀ Go to previous page

Tap ▶ Go to next page

4.3 LIVE MONITORING

Calls that are in progress can be monitored by tapping on [icon]. Line status will be displayed as

Tap [icon] to return to previous menu

Tap [icon] to begin or stop live monitoring

Tap [icon] Go to previous page

Tap [icon] Go to next page

ANSWERING MACHINE：THIS FUNCTION IS CURRENTLY NOT AVAILABLE

4.4 CALL DATA RECORDS (CDR)

Call date records (CDR) is being displayed in the window. However, any changes such as edit, cancel or print can only be executed when logged into AR software.

Tap [icon] Return to previous menu

Tap [icon] Go to previous page

Tap [icon] Go to next page

VOICE MEMO：THIS FUNCTION IS CURRENTLY NOT AVAILABLE

4.5 TOOLS

Calculator, calendar, alarm clock and call statistics are available in this section. Other functions are not available. To access double-tap to select the desired tools.

4.6 SET UP

4.6.1 CHANNEL SETTING

Setting for each channel or line is unique, therefore they must be configured individually and settings cannot be copied to other channels.

Channel Voltage setting: when meet the min preset voltage of preset accept talking/Idle, then system accept talking/idle, shows the current channel voltage at the same time

Channel record setting: start recoding when meet the preset requirement, record requirements: timing dial recoding. Voice trigger, Polarity reversal, Control key recording, timing talk record, timing dial recording: waiting time from you pick up the phone when longer than [waiting time for dialing], system start to record; Voice Trigger: checked the volume louder than [voice trigger volume level] when pick the phone, then system start to record; Polarity reversal: received the polarity reversal from the Tele company, system start to record; Control key record: when control key condition, users can set whether record external line or not by [record this talking key] and[cancel talking record key]; timing talk record: waiting time from when you pick up the phone longer than[waiting time for talking],then system start to record

Channel volume setting: adjust the channel volume, shows like 1-32

SMDR preference: not available for setting

AM2000 setting: required only if external gadget (AM2000) is used to convert digital signal/ walkie talkie/ audio output from mobile phone to AR400.

4.6.2 PREFERENCE (Recording Conditions)

Dial out waiting time: under the record condition, dial out waiting time longer than preset time, then system start to record, setting range:00-20S

Minimum time of recording: when record time shorter than preset time, record files will not save to the hard disk, only store the complete talking records, Minimum time of recording will set as:01-120S

Maximum time of recording: when record time longer than preset time, then select whether split the file, maximum time of recording will set range: 01-600Min

Off hook timing: Set the off hook time, range:50-500MS

On hook timing: Set the on hook time, range :200-2000MS

Ring off time: Set the ring off time, range:1000-10000MS

Save unanswered calls into SD card: Set as YES, then all the unanswered records will store into SD card, Set as No, all the unanswered phone records will not store in SD card

Save exception calls into SD card: Set as YES, all the non-record out-call will store into SD card; set as No, all the non-record will not store into SD card

Vox time: in condition of voice trigger, if searched the voice in the preset time, start recording, range: 100-10000MS

Max Silent intermission recording time: in condition of voice trigger, if can't searched the voice in the preset time, stop recording,range:100-10000MS

Vox level: in condition of voice trigger, when voice volume louder than preset voice trigger volume, the system accepted voice record; when voice volume lower than preset voice trigger volume, then system accept no voice stop recording, this setting can work as the requirements starting voice trigger,range:1-32

Fixed time after off hook: In the condition of fixed time after off hook, the time after off hook longer than preset time, then start recording

Split recording file: when recording is longer than every longest recording, you can select whether split the file or not, select YES, then that recording file and the complete recordings will saved when the logging time reach to the max, other continues recording will start a new timing: select No, when recording is longer than every longest recording, the records will not save into hard disk, available select YES/NO

Insufficient SD card memory alarm: when SD card memory is insufficient, select whether need to feedback the alarm signal to PC, available to set YES/NO

Circulating record?: If set as circulating record, when SD space less than the pre-saved space, then the newest records will replace the oldest ones; set No, when SD space less than the pre-saved space, the records will not save to SD card.

Insufficient SD card memory alarm numerical value: when SD space less than the pre-saved space, system will send signal to PC, range: 10-81920MB

Reversed memory space for SD card: when SD space less than SD card preset numerical value, then it will not space the SD card, range: 10-81920MB

Hotkey for start/ stop recording

Hotkey for starting recording: in the condition of key control, if the pc software shows: out line is off hook, as long as the phone which connected with AR logging system is in off hook, every side in talking can press the start recording key by phone key, then software shows: logging, hotkey can set 0-9.*.#,at most 8 hotkeys

Hotkey for stop recording: In condition of key control, if the pc software shows: recording ,as long as the phone which connected with AR logging system is in off hook, every side in talking can press the stop recording key by phone key, then software shows: talking, hotkey can set 0-9.*.#,at most 8 hotkeys

4.6.3 DATE/ TIME

Date：MM/DD/YYYY

Time：HH/mm/ss

Clock synchronize：select PC Time/ Caller ID clock/ Local device time

4.6.4 LANGUAGE

System supports Chinese (Traditional/ Simplified), English, Arabic and Turkish

4.6.5 EXCEPTION NUMBERS

Define up to 200 numbers – where both incoming and outgoing calls are NOT recorded.

4.6.6 HOST

For remote log in via LAN, correct IP address must be defined.

4.6.7 NETWORK

If the company/ user's internal LAN supports DHCP, device will automatically be detected. Otherwise, obtain an allocated IP from LAN network administrator. [C] cancel

Obtain IP address automatically: click [●] ,then will obtain an Ip address automatically(this function have to be supported by the net of logging host),then click [●] cancel obtain automatically, set the voice logger's IP address independtly subnet mask and default gateway

Obtain the DNS service address: click [●] then the server will assign a DNS service address, then click [●] canceled to obtain the DNS address automatically, just set the normal DNS server and other DNS servers MAC address: every MAC address are exclusively

4.6.8 POWER MANAGEMENT

Power management: include external input adapter and the battery power, when inputting power by DC19V, then shows [external adapter],when no external DC connected, system start to using battery for the input power, then shows[battery],when the external adapter input the power for system, the battery will also inputted by that

Input setting: when the external adapter input the power for system, the battery will also inputted by that. Non-input for low-power: when battery's volt less than the [low power protection] then no power supply from external battery. Slow recharge: when battery's volt less than set volt of [low power protection] then external power supply mode is slow recharge. Stable rapid recharge: when battery's volt is larger than the set volt of [slow recharge] and less than [stable rapid recharge], then external power supply mode is stable current or rapid recharge. Small recharge: when battery's volt is larger than the set volt of [stable rapid recharge] and smaller than the setting of [small recharge] then the power supply mode is small recharge

Alert setting: Low voltage alert: set low power alert, range (0%-100%). When select [when voltage reaches to this level, start the low voltage alert] then when power reach to this alert data, the pc software will send out alert, otherwise no alert. Low power alert: set low power alert data, range (0%-100%), when select [when the power reach to this level, start the low power alert], then when reached to this level, the pc software will send out alert, otherwise no alert

Recharge mode: when set the recharge as [No recharge], when connect with the external power and battery, there will be no recharge for the machine When set the recharge as[rapid recharge], only the battery's volt bigger than setting of [slow recharge area]and also less than the volt of[fixed current/rapid recharge area] then the mode for external recharge is rapid recharge. Other volt data up to the setting of recharge. When set the recharge as[fixed current recharge] only the battery's volt bigger than the volt setting of [slow recharge area] and less than the volt of [fixed current /rapid recharge area] the external power supply mode is fixed current recharge, other settings are up on the recharge setting USER MANAGEMENT
Display the status (online/ offline) of various users. Any changes (edit, cancel, add) must be executed through the PC software on LAN.

4.6.9 SD MEMORY CARD
Display used available and total SD memory card.

4.6.10 SELF TEST
Sound : set the keys volume
Back light : set the LED Brightness
Microphone : check whether MIC have sound input
Button : check all the keys are working
Led : check all the keys lights
Pc transfer port : this function is not yet available
Panel Alignment : this function is not yet available
Memory Card : this function is not yet available
USB Host : this function is not yet available
Display : test the display color
Memory Utilization ratio : display the memory utilization ratio

4.6.11 SYSTEM INFORMATION

Display device ID, serial number, firmware version, firmware date and hardware version. Select [icon] to

modify。Select [icon] to cancel；select [icon] to confirm.

4.6.12 FIRMWARE UPDATE
If there is any firmware update required, the device is able to detect the .exe file automatically (stored on

SD card/ external USB device). Select [icon] to begin update.

4.7 LOG OUT

- **PASSWORD**：When password is enabled, user must enter password upon start up or after device is idle for a pre-defined period, to access data stored or modify settings.
  Enable/ disable password：
  Change password：
  Password protection timing：Define the idle time period when device will be locked automatically by password
  Password secured：have to enter the system by the password, our preset password is 1234

- **RESET**：tap icon for device to reset automatically

- **SHUT DOWN**: tap icon to shut down

- **REMOVE SD CARD**: when click this, system will remind you" make sure to remove?" then click ✔️ means removing now, users will remove SD card "

5 AR 400 Software (Log in via LAN from other PC)

Double click "AR Series Voice Logger" logo on PC desktop after installation. Log in using default user name and password:

Username: admin　　Password: 1111
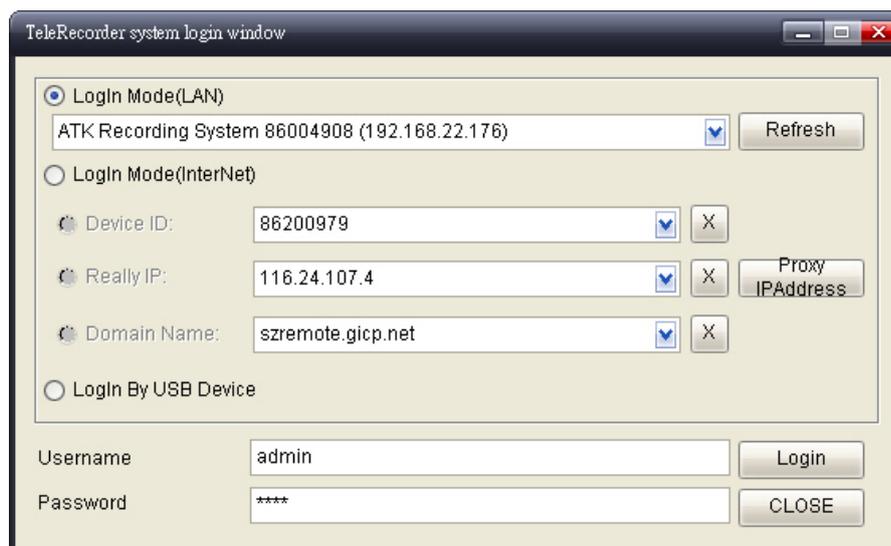
There are 3 ways to connect to AR400 main unit through a PC:

1. LAN（local）：
When AR400 is connected to company's internal LAN DHCP Server，AR400 device ID will be detected automatically. Log in using factory default username and password (admin/ 1111 respectively).

2. INTERNET（remote）：
Users may access the AR400 via internet provided it is a static/fixed IP or dynamic IP link to a virtual fixed IP.

User can login Voice Logger via remote access by WAN connection when IP of Voice Logger must be configured as virtual fixed IP (ex. 192.168.1.13), and it's necessary to set virtual server on your Router, specifying TCP 5053-5057 ports to Voice Logger. The router external IP can be a dynamic IP.

How to:
Log in window – check Internet (remote access)：
- **Device ID**：Log in by device-specific ID, enter factory default username/ password
- **Real IP**：Log in by WAN/ Fixed IP, enter factory default username/ password

3. Via RJ45 Cross cable ：
Connect the AR Voice Logger to PC via RJ45 cross cable, configure a static/fixed IP for both AR voice logger and the PC; the netmask and default gateway should be same. Run the AR program, and the login window will popup and display Voice Logger device ID, input username and password to login.

(Note: For instructions of how to use the AR software, refer to "AR Software Manual")