

ST2000

**INTERGRATED CALLER ID
SPEAKERPHONE
USER'S MANUL**

TO DEAR CUSTOMER

Thanks for your concern, that let us own such honor to provide high-quality series communication products for you, our entire automatically cost-saving Caller ID own all kinds of advance functions, let you enjoy convenient and practical communicate new life.

Its main feature is the dial manner of dialing cost-saving phone is as same as the manner of common phone. Provide more convenient operation when dialing the cost-saving phone. In addition, our products can store and display all kinds of service from Telecommunication Ministry of each area, include Caller ID number, date and time, etc. when you use this service, before picking up the phone, you can see caller's all data in advance, and store incoming information automatically, even you're not at home, you still can master all of data.

What's more we want to remind you is, Make sure that your telephone number or local area have China Telecommunication Service.

Put communication technology into requirement of life is our company's aim, meanwhile, your continuously encouragement and supply is the power of our progress.

NOTES

In order to keep your secure use and keep away from damaging because of improper use, before use it, please read our user's manual carefully first, for your secure reference in use.

Tel Inquiry:

China Telecommunication Tone Special Line 4121111---then, enter code according to tone: 666# or dial 123 directly, Ask local Telecommunication Ministry specialist to open Caller ID service application in advance.

Web inquiry:

China Telecommunication Company Web: <http://www.cht.com.tw>

2. Read and understand all instructions in this owner's manual.

3. Don't put it on the bumpy car or bumpy place please, to keep away from falling down and damaging.

4. Do not use this product near water, such as waterway, bathe room, and etc.
5. Notice that the use power must fit the specification of products.

6. When you clean this product, Pull out the area cord in area cord jack firstly, and clean it. Must notice that do not use liquid or chemical.

Identifying the Part

ST2000 FRONT VIEW

1. Handset
2. Delete
3. Check much earlier incoming call numbers
4. Double mutttons store phone numbers.
5. Set up
6. Remain
7. Cost-saving start/Cancel
8. Number button
9. LCD message indication window
10. Single memory button
11. Reply dialing incoming call or pre-dial number
12. Pause
13. Flash/Filter
14. Redial/Inquiry last ten groups dialed numbers
15. Speaker

ST2000 BACK VIEW

1. Speaker volume control.
2. DC power jack
3. Batteries compartment.
4. Area cord jack
5. Conducting cord trough
6. Handset cord jack

Installation

1. Connect one end of coiled cord to the jack of handset; connect the other end to the jack of the base set.
2. There are conducting cord troughs beside telephone line and handset line, push the cord into trough to fix electronic line surely.
3. If it appears low batteries icon on the display, show the power is weak, must replace batteries in time.
4. Open the battery compartment cover at back; load 4 A3 (7 number) batteries.
5. This product has DC power jack, user can buy transformer to use, the batteries are required even the adapter is used. They can keep the memories and settings when the power fails. Moreover, won't exhaust batteries when use DC at the same time.
6. Plug one end of flat cable to line jack at the right back of this phone, plus the other end to wall jack.
7. Plug one end of flat cable to line jack at the right back of this phone, plus the other end to line box jack.

Setting Up

Entering your area code

Area code set must cooperate with code from telecommunication room. Such as in Taipei, If received the call in the same Taipei area, showed “0227852954”, then, set the area code as “02” please. If show “27852954”, no need set area code. If show “227852954”, set the area code as “2” please.

1. Press **【MODE】** button, “STORE” will appear on the display.



2. Press **【REDIAL】** button, “AREA CODE” will appear on the display.



3. Enter your area code (0,1,2...9).



4. Press **【MODE】** button or pick up handset and hang up to end this procedure.

Clock Set

“HH:MM: MM/DD” time, date set

1. Press **【MODE】** button for three times, enter time and date
2. Press **【↑】**, **【↓】**, **【DEL】** button to set correct time, date. **【↑】**, **【↓】** is Number adjust button (1 2 3 4). **【DEL】** is move button.



3. Press **【MODE】** button or pick up handset and hang up to end this procedure .

- Time mode: 24 hrs. “HH:MM”, the first HH means hour; the second MM means minutes. “MM/DD”: the first MM means month; the second DD means date.

Programming the flash time

You can program the duration of flash in order to use the telephone company’s service such as call waiting service, and etc. (The flash time of this unit can be programmed from 1 mini second to 999 mini second.)

1. Press **【MODE】** button, “store” will appear on the display.



2. Press **【FALSE/FILTER】** button, “FLASH TIME” and flash time will appear on the display.



3. Enter (0,1,2...9) for programming flash time. (001 999, unit: 1 mini second)
4. Press **【MODE】** button or pick up handset and hang up to end this procedure.
The default flash time is 600 mini second.

Calling back a number to add code set

When you set adding response code, keep pressing **【SP.DIAL】** button for twice (in one second) continuously when call waiting. It will add “Calling back add” value (at most three digits set) automatically before dialing.

1. Press **【MODE】** button, “store ”appears on the display.



2. Press **【SP.DIAL】** button to enter into set page.



3. Enter (0、 1、 2 9) that you want to set.
4. Press **【MODE】** button or pick up handset and hang up to end this procedure.
The default “Calling back adding code” is “0”.

Replace Code Set

After setting replace code, the former area code will be substituted.

1. Press **【MODEL】** button, “store” will appear on the display.



2. Press **【DEL】** button, enter into replace code set.



3. Enter (0、 1、 2 9) for substitute code.
4. Press **【MODE】** button or pick up and hang up to end this procedure.

Pause Time Set

1. Press **【MODE】** button, “store” will appear on the display.



2. Press **【PAUSE】** button, “PAUSE TIME” will appear on the display.



2. Enter (0、 1、 2 9) to set “PAUSE TIME”. (00-99, Unit: 100 mini second)
3. Press **【MODE】** button or pick up handset and hang up to end this procedure.

The default “Pause Time” is 2 seconds.

No ring setting

When call waiting

1. Press **【FLASH】** button for over three seconds, “START” word sample will appear on the top right of the display, stop pressing to end this setting, it enter into “No ring” status.



2. If you want to cancel this status, Press **【FLASH】** button for over 3 seconds, “START” word sample will disappear on the top right of the display, stop pressing to cancel it.

- Only the numbers stored in memory can ring under the “No ring” status.

Owner’s manual for General Phone

You also can use this product as general phone, won’t through cost-saving system when dialing. The ways to cancel cost saving as below:

1. When call waiting, Hold pressing **【REMAIN】** button for over 6 seconds, “OFF-IP” will appear on the display, then, it’s general phone use. (the original status of this product is “ON-IP”)

Making a call

1. Pick up the handset (it display time, date, will calculate time after 8 seconds.)

Input (it shows "0 9" , dial content) .

Call.

Press **【SPEAKER】** to dial

1. Press **【<<▶】** button. (Display time, date, " 1").

2. Input (Display : content of dial # " 1" , begin to calculate time after 8 seconds ,) .

3.Call. (Display : "Clock Time" , " 1") .

When call waiting, press "Inquiry call number" **【Scroll data up】** or **【Scroll data down】**, can press **【SP.DIAL】** button continuously, The speaker will turn on, and dial out the number automatically.

Initialize dialing

Initialize dialing, you can dial the number on display firstly, then press **【SP.DIAL】** button to dial directly. (You may modify them provided any mistake appeared).

When call waiting

1. Enter directly, (can press **【DEL】** button to erase last dialed number) after confirming.

2. Press **【SP.DIAL】** button, the **【SPEAKER】** will turn on and dialing out.

2. Meanwhile, can speak or pick up the handset to call.

Redial the last 10 groups of dialed number

1. Press **【REDIAL】** button, the last 10 groups of dialed # will appear on the display in order.

2. Choose the NO you wish.

3. Press **【SP.DIAL】** , the speaker will turn on.

4. Meanwhile, can speak directly or pick up the handset to call.

Erase the last 10 groups of dialed numbers

When call waiting

1. Press **【REDIAL】** button, the last 10 groups of dialed numbers will appear on the display in order.

2. Select the number you wish to erase.

3. Press 【DEL】button for twice continuously to erase this group of phone numbers.

Call Remain and Release Remain

1. Calling....
2. Press 【HOLD】 key, hang up, it'll be music.
3. Pick up (other extensions) handset (or press 【SPEAKER】) to call directly, can keep releasing automatically.

Storing numbers

1. Press 【MODE】 button, “STORE” will appear on the display.
2. Input the number you want to store: 0、 1、 2 9、 *、 #。
3. Press 【STORE】 button 【M1】 【M8】 to end single button memory store, or press 【STORE】 + 0、 1、 2 9 to end double button memory store.

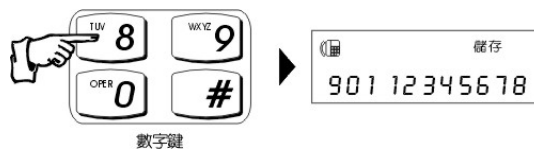
Storing confidential call number

The function is provided protecting some very important or not shared telephone numbers for you, such stored number can't be checked.

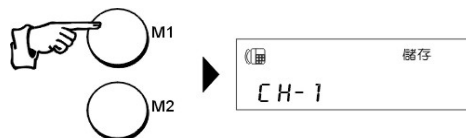
1. Press 【MODE】 button, “STORE” will appear on the display.



2. Press “ #1# ”, enter into page setting.
3. Press any of confidential codes (8 groups in total) 901、 902、 903、 904、 905、 906、 907、 908、 909、 900, Input the number you want to store at the blink cursor (at most 16 digits)



4. Press 【HOLD】 button , you'll hear one “B1” tone, These numbers will be substituted by the numbers in original M1、 M2、 M3、 M4、 M5、 M6、 M7、 M8、 M9、 M10 memory.



5. When you want to dial these numbers, Pick up the handset or press 【SPEAKER】 button, press single stored button (M1—M8) separately, “ CH-1 (2---8) ” word sample will appear on the display, not display dialing number.

6. You can repeat 1,2,3 steps to change confidential phone numbers.

Checking the stored numbers

1. Press **【MODE】** button for twice, “CHECK” appears on the display.
2. Press **【M1】 【M8】** button , or press **【STORE】** + Number button (0,1,2...9) , check the stored number.
3. The call Number will appear on the display when checking the stored number. Press **【SP.DIAL】** directly to dial it.
 - If checked confidential phone, this product only show confidential code: CH-1 (2,3,4,5,6,7,8), no content.

Delete confidential call numbers

After setting confidential call numbers, the corresponsive “STORE” button (M1—M8) can’t be operated (stored numbers) to store again. Must erase corresponsive confidential call before storing.

1. Press **【MODE】** button, “STORE” will appear on the display.
2. Press “ #1# ” .
3. Enter the confidential code (901-908) to erase.
4. Press **【HOLD】** button until you hear the “B1” tone to erase it directly, you can do (storing phone numbers) the operation.

Caller ID service

Check caller ID numbers and response directly

It can store the last 60 groups of phone # automatically, include the call you didn’t receive, also can check these data when calling.

1. Press **【↑】** button to display much earlier call numbers.
2. Press **【↓】** button to display much newer call numbers.
3. If you repeat pressing **【↑】**, **【↓】** button, and finished reading all the numbers, then, “END” will appear on the display.
4. You also can select the number you want to response, Press **【SP.DIAL】** button to response the call on the Caller ID display.

If they are the phones in the same area on caller ID list, (not display area code) Press **【SP.DIAL】** for once.

If it is long distance call, display “0 + area code + the number of Caller ID” press **【SP.DIAL】** for once; if it display “area code + the number of Caller ID”, and unset response adding code, then press

【SP.DIAL】for twice quickly, add “0” at the head, dial “area code + the number of Caller ID”; If have set response adding code, Press 【SP.DIAL】 for twice quickly, then, it will add the value at the head automatically.

Modify the Caller ID list and Store

This product can store last 60 groups of phone numbers, If there is a new call after 60 records, the earliest will be erased automatically, the new one will be stored.

1. Press or button, select the one you wish to modify on the Caller ID list.
2. Press 【MODE】 button, the first number on the display will flash.
If you do not wish to modify, Please press 【M1】 【M8】 button, or press 【STORE】 + number, this number will be stored.
3. Press ▲ or button, the move cursor will move right/left unit.
4. Press 【DEL】 button, erase one number of the phone.
- 5 Can enter new number units: 0、 1、 2 9、 *、 #.
Press 【M1】 【M8】 button, or press 【STORE】+ number, this number will be stored.
6. Pick up the handset and hang up to end this procedure.

Calling back a number from the Call ID list

You can easily call back a number from the Call ID list by pressing the 【SP.DIAL】 button.

1. Press or button to select the number you wish to dial
2. Press the 【SP.DIAL】 button, the speaker will turn on, and dial out the number automatically

Press 【SP.DIAL】for twice continuously, Add the code automatically what you have set before the dialing number on the display. If unset the “Calling back add code”, it will add dialing “0” before it automatically.

Erasing data from the Caller ID list

Erasing one data from the Caller ID list

1. Please press or button to select the number you wish to erase.
2. Press 【DEL】 for twice, this number is erased at once.

Erasing all the data on the Caller ID list, please hold pressing 【DEL】 for over 5 seconds.

Instruction for Cost-saving function

This product can be used for cost-saving phone with no need to change your usual dial custom; also can dial general phone that no need through cost-saving net.

Start or Cancel Auto-Cost-Saving function

When call waiting.

1. Press **【HOLD】** button for over 6 seconds, “ON-IP” will appear on the display, then turn on the cost-saving function automatically.
2. When starts the Auto-Cost-Saving function, “START” will appear on dial display.

When call waiting

1. Press **【HOLD】** button for about 5 seconds, “OFF-IP” will appear on the display, then cancel Auto-Cost-Saving function.

Dial Cost-Saving phone

1. Pick up the handset, “START” will appear on the display.
2. Enter the phone number you wish to dial directly.
3. If success, “START” will flash.

Using Cost-Saving system to dial the number on the Caller ID list.

1. When call waiting.
2. Press or button to check the numbers on the Caller ID list.
3. Press **【SP.DIAL】** button, can dial out the phone number.

Initialize dialing

Initialize dialing, you can dial the number on display firstly, then press **【SP.DIAL】** button to dial directly. You may modify them provided any mistake appeared.

1. When call waiting
2. Enter directly, after confirming.
3. Press **【SP.DIAL】** button, then, you can dial Cost-Saving phone.
4. Pick up the handset or press the **【SPEAKER】** to call
If mistakes appear, press **【DEL】** button, del the last number, then, enter the correct number.
If finish initialize dialing, but not press **【SP.DIAL】** button in 15 seconds, then resume normal display status.

Redial the last 10 groups of dialed number

1. When call waiting.
2. Press **【REDIAL】** button, the last dialed number will appear on the

display in order, select the number you wish to dial.

3. Press **【SP.DIAL】** button, dial the selected number out.
If already dialed **【SP.DIAL】** button, but not continuously press **【REDIAL】** button or **【SP.DIAL】** button, then will resume normal status.

Setting up Cost-Saving conference steps

1. Press **【MODE】** button, “STORE” will appear on the display.
2. Enter “#1#” (if has password, then need enter it after #1#) into the status of IP reference inquiry, “- -” appears on the display. The first two number express reference (901-919 are three number), behind it express the content of reference.
3. Enter reference and content, press **【HOLD】** button to confirm (can enter setting up continuously.)

Inquiry Cost-Saving reference steps

1. Press **【MODE】** for twice, “Inquiry” will appear on the display.
2. Enter “#1#” (if has password, then need enter it after #1#) into the status of IP reference inquiry, “- -” appears on the display.
3. Enter reference and content, the content you wish to check will follow appears on the display. (If it excess 8 number, can press **【 】** or **【 】** to check, also can enter inquiry continuously).

Reference Table

	1 PATH	2 PAT H	3 PATH	4 PATH	5 PATH	ORIGINAL VALUE	LENGTH	UNIT	REMARK
THE FIRST SEGMENT OF SYSTEM CODE	01	02	03	04	050,051, ...0 59 (TEN SEGMENTS)	123456789* 0# (PATH5 NO)	1-16		DTMFDETECT => 14->AUTO 15->1 SYS CODE ->NO ACK ->ORIGINAL CODE
THE FIRST SEGMENT OF PAUSE TIME	06	07	08	09	10	06	2	1SEC	16->JUMP PATH DIAL OUT 1 SYS CODE->NO ACK ->ORIGINAL CODE
TWO TIMES DIAL TONE DETECT	11	12	13	14	15	20	2	100MS	17->JUMP PATH DIAL OUT
DTMF DETECT	16	17	18	19	20	AUTO	1-8		1 SYS CODE->NO ACK ->NOT DIAL ORIGINAL CODE
THE SECOND SYSTEM CODE	21	22	23	24	25	1234	1-16		REFERENCE

THE SECOND PAUSE TIME	26	27	28	29	30	05	2	100MS	NUMBER20 CAN BE SET AS 18 , THE DTMF DETECT TIME WILL DEPEND ON REFERENCE NO.10
DTMF DETECT	31	32	33	34	35	AUTO	1-8		
THE THIRD SYSTME CODE	36	37	38	39	40	OFF	1-16		
THE THIRD PAUSE TIME	41	42	43	44	45	05	2	100MS	
THE FOURTH SYSTEM CODE	46	47	48	49	50	OFF	1-16		
THE FOURTH PAUSE TIME	51	52	53	54	55	05	2	100MS	
ADD # BEHIND OBJECTIVE CODE	56	57	58	59	60	OFF	1-2	100MS	THE FIRST CODE TIME THE SECOND CODE
DEPARTMENT ACCOUNT	61	62	63	64	65	OFF	2	BLANK CANCEL	SELECT WHICH SEGMENT TO ADD AFTTER (1 OR 2 OR 3 OR 4)-THE FIRST CODE ; WHICH CODE TO ADD AFTER-THE SECOND
EFFECTIVE START CODE	66	67	68	69	70	NO	1-6		
REDUCE CODE	71	72	73	74	75	NO	1-6		ONLY CAN SET UP ONE REDUCE CODE IN EACH PATH, USE * TO SHOW COMMON REDUCE CODE
INEFFECTIVE START CODE (ADDITIONAL CODE)	76					NO	1-6		
MOVE EFFECTIVE AND INEFFECTIVE CODE (ADDITIONAL CODE)	77					NO	1-6		
DTMF TONE ON TIME	78					10	2	10MS	
DTMF TONE OFF TIME	79					10	2	10MS	
BYPASS SET UP VALUE	82					#2#	1-4		
PBX CODE	83					OFF	1		
PBX CODE PAUSE TIME	84					10	2	100MS	
REMOTE CONTROL	85					1111	1-8		REMOTE CONTROL MUST DIAL # 1 # FIRSTLY
EEPROM	86					01	8		

VERSION									
FLASH TIME	87					60	2	10MS	
ENTER INTO DIALING PASSWORD SET UP	88					NO	1-8		
START CRAD MODE	89					NO	2-6		THE FIRST WORD SHOW SEGMENT, TWO, THREE, FOUR, FIVE, SIX WORD SHOW PATH, AND THE CONTENT OF CARD MODE WILL SUBSITUTE FOR THE CONTENT OF 89 SETTING ADDRESS.
CONFIDENTIAL MEMO SET UP	90X						1-16		AFTER X=0-9 SETTING UP, THE CONTENT OF CORRESPONDING MEMO CAN'T CHECK, ALSO WON'T APPEAR ON THE DISPLAY WHEN DIALING.
AUTOMATICALLY ON LINE	910 ... 912					NO	1-16		
CALLER ON LINE	913 ... 915					NO	1-16		
COLCK SET UP	916					NO	8		MONTH, DATE, TIME, MINUTE, TWO NUMBER EACH
ON LINE TIME	917					NO	6		
ON LINE FAIL TIME	918					NO	2		
ON TIME SURPLUS TIME	919					NO	2		
READ CPU VERSION	95					01	2		
RESET SYSTEM VALUE	98								
MOVE DDN ADDITIONAL CODE AND RESET SYSTEM VALUE	99								

In Case OF Difficulty

- No Dial Tone

1. Make sure all plugs are connected properly; inspect the line cord connections at the modular jack and at the telephone. Also inspect the coiled handset cord connection at both ends.
2. If there is still no dialing audible frequency, the problem may on telephone, area cord, cord line of Telephone Company, exchange center or the corresponsive cord in your family, Please check the line in your family or inform Telephone Company to check.

二. No any data display when receiving call

1. Please make sure that whether your phone has Caller ID Service, if not, it can't display any information, China Electronic Line Tone inquire Tel: 412-111, Enter code 666#, Enter the pre-inquiry Tel or add code area before the Tel #.
2. Make sure all the lines are selected followed all the instructions in this booklet.
3. Inspect whether the batteries are loaded correctly.
4. Turn on the Caller ID service application in advance; call the specialist of Telecommunication ministry to settle.

三. No incoming and return tone in handset

1. Inspect the line cord connections at the handset and at the telephone, whether it's correctly connected followed the instruction in this booklet.
2. Inspect the connections at the coil cord jacks and at the handset of the telephone are fixed tightly.

GUARANTEE

Guarantee for one year since purchase day: products in our company are all through strict check and trial, please use it securely. If in case of difficulty on the condition of normal use during guarantee time. We are responsible for free repair.

Any part in this product, if not the technician of our company to repair, and result in the case of difficulty, we won't responsible for this.