1. INTRODUCTION

Congratulation on your purchase of **AURORA TM200**. Designed to suit the world where using E-mails to communicate over the Internet is becoming a way of life, TM200 features an E-mail directory for convenient E-mail address entry and search. This light-weight compact databank also provides those useful functions such as home time / world time display, daily alarm, currency conversion and basic calculator functions. A password security function is also implemented to protect your private information. TM200 is your best companion in business, social and personal life!.

Before using your TM200, please read this manual carefully for maximum usability and keep it handy for future reference.

1.1 Features

TM200 features 3 major modes, Telephone / E-mail, Calculator and Clock modes:

Telephone / E-mail Mode

- Stores up to 64 data entries. (6-character name + 12-digit phone no.) or 24 data entries. (6-character name + 12-digit phone no. + 24-character e-mail address).
- Data arranged automatically in alphabetical and numerical order.
- Password security function for privacy.
- Quick-search function.
- E-mail search function.

Calculator Mode:

- 12-digit calculator with single memory basic functions (+, –, ×, +, %, M+, M–).
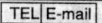- Currency exchange function (C1, C2).

Clock Mode:

- Year, Month, Day, Hour / Minute / Second and the day of the week display
- 12- / 24-hour time display.
- Built-in 100-year calendar (1995~2094).
- Daily alarm function.
- 24-city world time display.

Other Features

- Automatic power off after 5-minute idle time.
- Key touch-tone.

1.2 Brief Description of the Keys

Key	Description
ON/OFF	Power on and power off key
CAL	Calculator mode key
HT WT	Home time and world time mode key
TEL E-mail	Telephone no. & e-mail address mode key
▲ ▼	Up and down search keys.
◄ ►	Cursor movement keys.
SHIFT	Convert to number input or use the alternate functions printed on the upper part of most keys.
CAPS	Convert between upper and lower case letters.
CURRENCY	Currency exchange function key
SYMBOL	Input special characters. (See the list following this table)
SECRET @	• @ character key for E-mail address input. • Password security function key

SET EDIT	• In HT/WT mode: time setting key • In TEL / E-mail mode: data modification key
= ENTER	• Register all new input. • Equal function in calculator mode.
ALARM SPACE	• Enter the alarm mode. • Input space character.
INS	• Insert characters in data entry and editing.
1 ~ 0 Q ~ P MRC © A ~ L C1 +/- Z ~ M	• Alphabet and number keys for data input. • Calculator mode: operational function keys. • B , N : Setting the time in HT/WT mode. • C : Key touch-tone on/off function. • Z , X : Currency exchange function.
C/CE DEL	• Delete an entry under telephone/e-mail mode. • Delete characters in data entry and editing. • Clear/Clear Entry in calculator mode.

Symbol Character List:

Press the **SYMBOL** key to scroll through following characters:

•, -, :, \$, £, ¥, #, *, (,), ←, →, ', /, ?.

1.3 Before Using your TM200

Before using your new TM200 for the first time, please pull out the insulation tape (used to prevent battery power self-consumption) under the battery cover on the back panel of the unit.

2. CLOCK MODE

In this clock mode, you can check your home time, look up the local time for 24 cities around the world, and set a daily alarm to go off at a specific time everyday. Before using those functions, please set your home time first.

Press **HT WT** key to select this mode and switch between the Home Time mode and the World Time mode.

| ♪ 01 / 01 '97 WED
AM 12 - 00 05
(Home time) | ♪ 01 / 01 '97 LON
AM 12 - 00 09
(World time) |

2.1 Setting your Home Time

Example: NYC, 1997, 12 - 25, THU, 5:30 PM.

1. In the home time mode, press **SET EDIT** key. The city name will appear and flash.

♪ 01 / 01 '97 ⌐LONE
AM 12 - 00 15

1. Select a city in your time zone by using the ▲ , ▼ search keys. See next section for a list of the cities.

♪ 01 / 01 '97 ⌐NYCE
AM 12 - 00 21

1. Press **ENTER** key to set the city for your home time mode.

♪ 30⌐1 / 01 '97 NYC
AM 12 - 00 30

1. Enter the present date 'MM/DD/YY' and time with the numerical keys.
In the 12-hour mode, use the **B** key to switch between AM and PM.

♪ 01 / 01 '97 NYC
⌐PM⌐ 5 - 30⌐

1. Press **ENTER** to register the entry. The display returns to home time display and the second count starts from "00".

♪ 12 / 25 '97 THU
PM 5 - 30 00

- The **N** key allows you to toggle between 12-hour or 24-hour time display. It is not functional while setting the time.

Note: when invalid date or time is entered, the display will remain in the to time setting mode.

2.2 Looking up the World Time

1. Press the **HT/WT** key to switch to world time mode. The name of the city will appear in the display.
2. Press **▲** , **▼** keys to look up the local date and time for the 24 major cities around the world.

List of World Time Cities

NO.	City	Display	Time Difference	Remark
1	Auckland	AKL	+12	
2	Bangkok	BKK	+7	
3	Beijing	PEK	+8	
4	Buenos Aires	BRU	-3	
5	Cairo	CAI	+2	
6	Chicago	CHI	-6	
7	Denver	DEN	-7	
8	Dubai	DXB	+4	
9	Hong Kong	HKG	+8	
10	Johannesburg	JNB	+2	
11	London	LON	0	Default value
12	Los Angeles	LAX	-8	
13	Manila	MNL	+8	
14	Mexico City	MEX	-6	
15	Moscow	MOW	+3	
16	New York	NYC	-5	
17	Paris	PAR	+1	
18	Rio De Janeiro	RIO	-3	

19	Santiago	SAN	-4	
20	Seoul	SEL	+9	
21	Sydney	SYD	+10	
22	Tokyo	TYO	+9	
23	Toronto	YYZ	-5	
24	Vancouver	YVR	-8	

2.3 Using the Daily Alarm

Setting the Alarm
Example: 6:30 AM

1. In the clock mode, press **SPACE** key to access the alarm mode.

   ♪ ALARM OFF
   AM **12 - 00**

1. Press **SET/EDIT** key to enter time setting mode.

   ♪ ALARM ON
   AM **12 - 00**

1. Enter the time by pressing the numerical keys. In the 12-hour mode, use the **AM/PM/B** key to switch between AM and PM.

   ♪ ALARM ON
   AM **6 - 30**

2. Press **ENTER** key to complete the entry. The display returns to alarm mode.

- In the alarm mode, press **ALARM/SPACE** key to select between the ALARM ON (daily alarm function active) and ALARM OFF (daily alarm function disabled).

- When the alarm goes off, press the **ON/OFF**, **HT/WT**, **TEL**, **E-mail**, or **CAL** keys to turn off the sound.

3. TELEPHONE / E-MAIL MODE

The Telephone / E-mail mode offers you a convenient way to store and call out telephones numbers as well as e-mail addresses. Any private information can be protected by the password security function.

To access this mode, Press **TEL** key. Notice that "TEL" appears on the right side of the display. The remaining memory capacity is also indicated to the left of "TEL".

> ♪ NAME? `CAPS`
>
> 928 `TEL`

3.1 Entering Data

Example 1:
> Name : AURORA CORP.
> Telephone : 02-3452255

1. Enter the name. You may enter up to 36 characters. A "◀" symbol will appear (on the lower left corner) when the screen scroll to the left.

> ♪ AURORA CORP◀ `CAPS`
> `TEL`

1. Press **ENTER** key to advance to the next line.
2. Enter the telephone number. You may enter up to 24 digits.

> ♪ AURORA CORP `CAPS`
> 02-3452255◀ `TEL`

1. Press **ENTER** key to register all input data. The screen returns to the initial display.

> ♪ NAME? `CAPS`
> 910 `TEL`

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Example 2:
> Name : John Doe
> Telephone : 886-23452255
> E-mail address : johnd@mail.aurora.com.tw

1. Input the name.

> ♪ JOHN DOE◀ `CAPS`
> `TEL`

2. Press **ENTER** key to advance to the next line.
1. Enter the telephone number.

> ♪ JOHN DOE `CAPS`
> ◀86-23452255◀ `TEL`

Do not press **ENTER** *yet !*

1. Press **E-mail** key. The screen will prompt you for an e-mail address input.

> ♪ E-MAIL? `CAPS`
> `TEL`

1. Enter the e-mail address. Use **@** key for @ and **SYMBOL** key for •.

> ♪ rora.com.tw◀ `SECRET`
> `TEL`

1. Press **ENTER** key to register all input data and return to the initial display.

> ♪ NAME? `CAPS`
> 868 `TEL`

3.2 Searching Data

Alphabetical Search

Use the search keys to look up and down the listing in alphabetical order.

* "E-mail" indicator will appear and flash for entries with e-mail addresses. See *E-mail Search* below to look up e-mail addresses.

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Quick Search

Enter character string (up to 8 characters can be input) of the name to be searched. For example, enter "A", "AU", or "AUR", ..., then press either of the search keys, data begin with "A", "AU", or "AUR" will be called out.

- "E-mail" indicator will appear and flash for entries with e-mail addresses. See *E-mail Search* below to look up e-mail addresses.
- If there is no matching data in the directory, "NOT FOUND!" message will display then return to the initial display.

E-mail Search

1. Press **E-mail**

♪ NAME? `CAPS`
868

2. Use the search keys to look up and down the entries (with E-mail addresses) in alphabetical order.

♪ JOHN DOE `CAPS`
86-23452255 `E-MAIL`

$\Rightarrow$
wait
1 sec.

♪ johnd@mail.a `CAPS`
`E-MAIL`

- If there is no matching data in the directory, "NOT FOUND!" message will display then return to the initial display.

3.3 Editing Data

1. Search the entry that you want to edit using the above instruction.
2. Press **EDIT** key to enter the edit mode.
3. Use "◀" and "▶" arrow keys to move the cursor and edit the information as desired on the first line.
4. Press **ENTER** to access the second line.
5. When you finish editing, press **ENTER** again to return to the initial display.

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3.4 Deleting Data

1. Search the entry that you want to delete.
2. Press **DEL**. The display will prompt you if you want to delete the entry.

♪ DELETE(Y/N)? `CAPS`
`TEL`

1. Press **Y** to delete the entry, or **N** to return to the initial display.

♪ DELETE! `CAPS`
`TEL`

2.

3.5 Using the Password Security Function

This function allows you to protect your private information in the telephone / e-mail mode.

Creating a Password

1. In the telephone / e-mail mode, press **SHIFT** followed by **@** key. The screen will prompt you for a password.

♪ PASSWORD? `CAPS`
`TEL`

1. Enter your password up to four characters.

♪ LOS▓ `CAPS`
`TEL`

1. Press **SHIFT** and **@** key again when completed. The initial display of the telephone / e-mail mode will reappear with a symbol of a key in the lower right corner, indicating that you are in the protect mode.

♪ NAME? `CAPS`
868 `TEL`

2. You can enter information as you do in the normal telephone / e-mail mode. The information you entered in the protect mode cannot be accessed in the normal mode.

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- In the protect mode, pressing SHIFT and SECRET @ key sequence again will show the password.
- To exit the protect mode and return to the normal mode. Press SHIFT and SECRET @ key sequence twice.
- When the display is turned off, either by the ON/OFF key or automatic power off, or when you select mode other then the telephone / e-mail mode, your databank will automatically exit the protect mode.

Warning!
If you forget the password, you will not be able to access the data stored in the protect mode. Please refer to the section *Resetting your TM200* to clear the password and the protected data.

Accessing the Protected Data

To add, delete, edit or recall information in the protect mode, follow the steps below to enter the protect mode first:
1. Select telephone / e-mail mode.
2. Press SHIFT and SECRET @ key . The display will prompt you for the password.
3. Enter the password then press SHIFT and SECRET @ key . If the correct password is entered, the initial display of the telephone / e-mail mode will reappear with the key symbol at the lower right corner.

Changing the Password

1. Enter the protect mode as described above.
2. Press SHIFT and SECRET @ key .The password will appear and blink.
3. Edit as needed.
4. Press SHIFT and SECRET @ key to complete the modification.

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4. CALCULATOR MODE

This 12-digit calculator allows for basic calculations, including, +, −, ×, ÷ calculation functions, percentage and single memory operations. A helpful currency exchange function is also included for convenient conversions between two currencies.

To use the calculator, press the CAL mode key. **0.** appears in the display and it is ready for input.

4.1 Currency Exchange

Example:
    How much is USD 250 in NTD? (USD 1 = NTD 27.8)

Setting the Exchange Rate
    C1 : USD 1.0   C2 : NTD 27.8

1. Press **CURRENCY** key to use the currency exchange function.	♪ CURRENCY
1. Press **C1 Z** key . 2. Press **SET EDIT** key.	♪ C1:⊃-⊃- - RATE CAPS **1.000000**
1. Input currency name and press **ENTER** key.	♪ C1: USD RATE CAPS ⌐1.000000⌐
1. Continue to set the rate and press **ENTER** key. The exchange rate setting for C1 is done.	♪ C1: USD RATE CAPS **1.000000**
1. Press **C2 X** key and follow steps 3 to 5 to set the name of currencies and the exchange rate for C2.	♪ C2: NTD RATE CAPS **27.80000**

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Converting the Currencies

1. Press CURRENCY

   ♪ USD→1.000000

2. Press $\overset{C1}{Z}$

   250.

3. Input " 250 ".

1. Press $\overset{C2}{X}$ key to display the converted value.

   ♪ USD→NTD

   6950.

4.2 Calculation Examples

Problem	Key Input	Display
2+3−1=4	2 [+] 3 [−] 1 [=]	4.
2×(3+4)+5=2.8	3 [+] 4 [×]2 [+] 5 [=]	2.8
3×2.54=7.62	3 [×] 2.4 [C/CE] 2.54 [=]	7.62
2+3=5	2 [+] 3 [=]	5.
4+3=7	4 [=]	7.
2−3=−1	2 [−] 3 [=]	−1.
4−3=1	4 [=]	1.
2×3=6	2 [×] 3 [=]	6.
2×4=8	4 [=]	8.
2÷3=0.5	2 [+] 4 [=]	0.5
3÷4=0.75	3 [=]	0.75
2+3+3=8	2 [+] 3 [=] [=]	8.
6−2−2=2	6 [−] 2 [=] [=]	2.
2³=8	2 [×] [=] [=]	8.
20×25%=5	20 [×] 25 [%]	5.
5+20%=25	5 [+] 20 [%]	25.
20×(1+15%)=23	20 [+] 15 [%]	23.
20×(1−20%)=16	20 [−] 20 [%]	16.

2×3=	6	2 [×] 3 [M+]	M		6.
−) 3×4=	12	3 [×] 4 [M−]	M		12.
+) 4×5=	20	4 [×] 5 [M+]	M		20.
	14	[MRC]	M		14.
		[MRC]			14.

5. MAINTENANCE

5.1 Caring for your TM200

Please use proper care for your databank to ensure trouble-free use.

- Do not carry the databank in your back pocket. Sitting on it may break the fragile glass material of the screen.
- Avoid carrying the databank in your pocket or bag together with sharp or hard objects to prevent scratching to your databank.
- Be careful not to drop it or subject it to strong impact.
- Keep the databank away from extreme temperatures, humidity and dust.
- Tap the keys and handle the databank gently.
- Clean the databank with a soft, dry cloth when needed. Do not use any solvents.

5.2 Resetting your TM200

When there is no data is stored in the protect mode, the reset button located on the back panel of your databank will allow you to clear all memory and settings. *When there is protected data, the first reset will result in the deletion of only the secret data, including the password.*
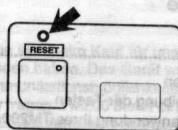
Warning!
Since data may be lost when replacing the battery or if the reset button is pushed, always make a written record of important data before performing the operations.

To reset your databank, follow the steps below:

1. Press the button marked **RESET** using a small pointed object such as the tip of a pen.

2. A prompt will appear to confirm if you want to rest your databank.

3. If yes, press $\boxed{Y}$ key. If you decide not to reset your databank, press any other key.

5.3 Replacing the Battery

Battery replacement: The display will become dim and difficult to read when the power is low. Replace the battery with new one immediately to avoid memory lost.

Warning!
To avoid losing any stored data, please finish changing battery within 2 minutes !

6. SPECIFICATIONS

Model No.	: TM200
Product Name	: Databank
Display	: LCD (STN type)
Memory Capacity	: 928 Byte
Battery Life	: Min. 2 year (When used 2 hours a day)
Dimensions	: 104L × 69W ×10H mm (Folded)
Weight	: 60 g
Accessory	: Battery: CR2032 x 1
	: This User's Manual