



Gold Apollo Co., Ltd.

Alpha-Numeric Display Pager

MODEL : AL-A27



PAGER PROGRAMMING GUIDE

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Getting Started

The ALA27 Pager Programming software, provides the flexibility to program ALA27 pagers to meet individual requirements. To obtain the best results from the product, please take a few minutes to read this instruction guide.

Equipment Required

To install and operate the programmer, you need a system that meets the following minimum requirements:

- An personal computer (PC) with printer port, or compatible
- Windows 98 SE or above operating system (XP Recommended)
- 256 MB of RAM
- ALA27 Programmer
- A DB25 male-male printer cable
- ALA27 Pager Programming Software

Equipment Setup

Refer to Figure 1 while performing the follows:

1. At the rear of the PC, connect the DB25 male-male interface cable to the printer port on your computer.
2. Plug end of the DB25 cable into the ALA27 programmer.
3. Hardware installation is complete.

* Be sure to remove & re-insert the battery after programming the pager to save the data.*

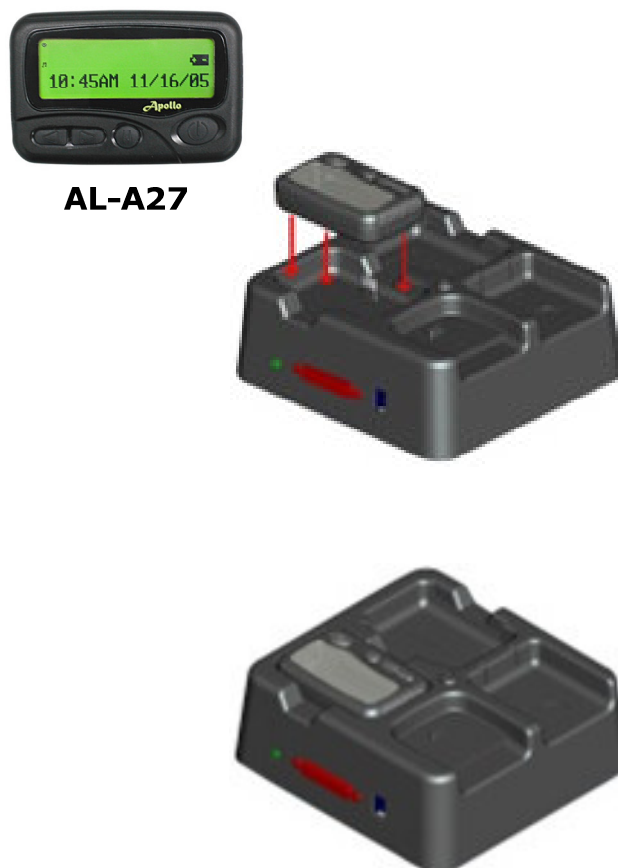
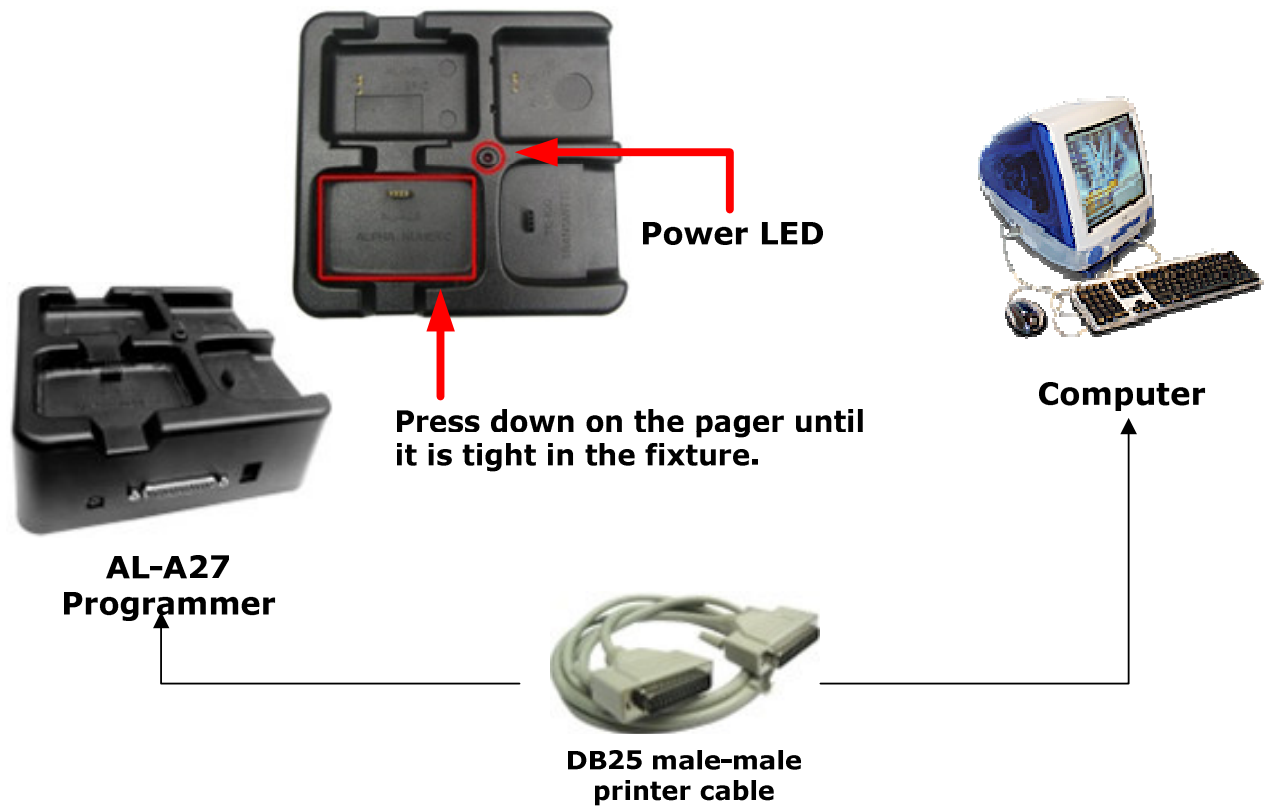


Figure 1 Programmer Hardware Connections

Installing Programmer Software

Installation

Install the programmer software into a PC as follows:

1. Uncompress the ALA27V369.zip and save them in a temporary directory.
2. Double click the setup.exe file. Click on "Y".



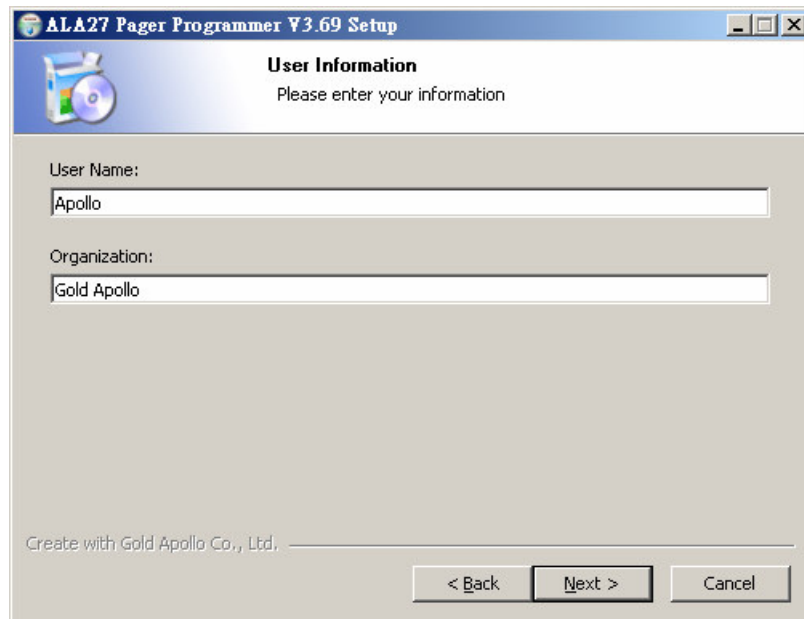
3. Click "Next" on the Welcome screen.



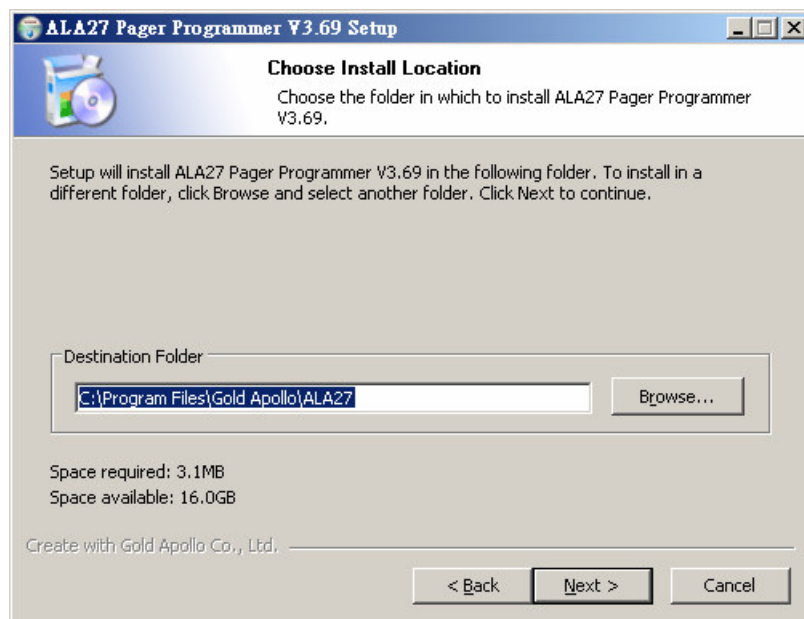
4. Enter your user information and click "Next".

(Note: you must enter at least a single character "into the company field)

Installing Programmer Software

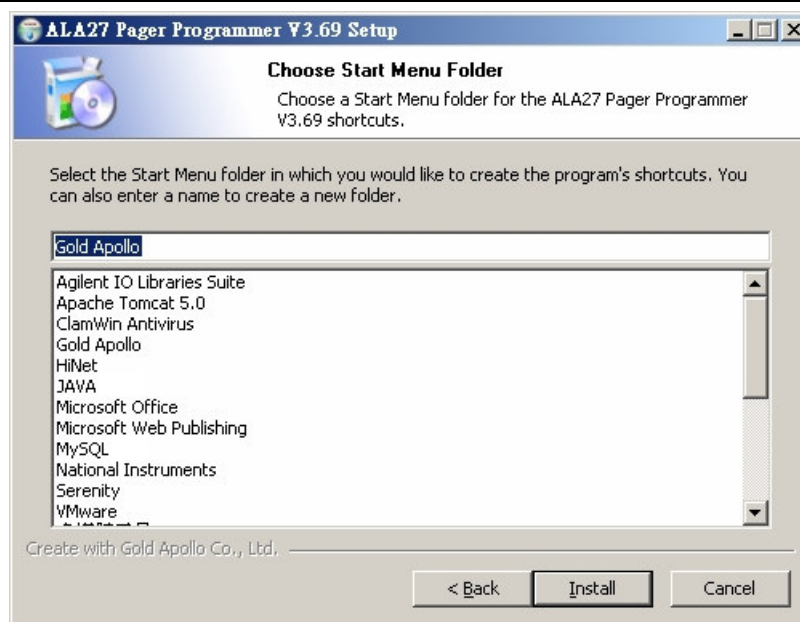


5. Choose where the program should be installed and click “Next”.

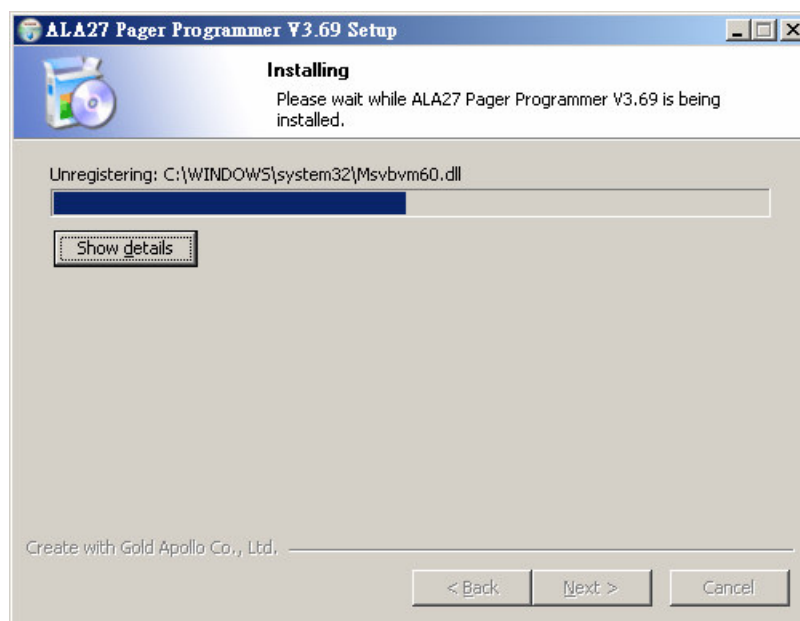


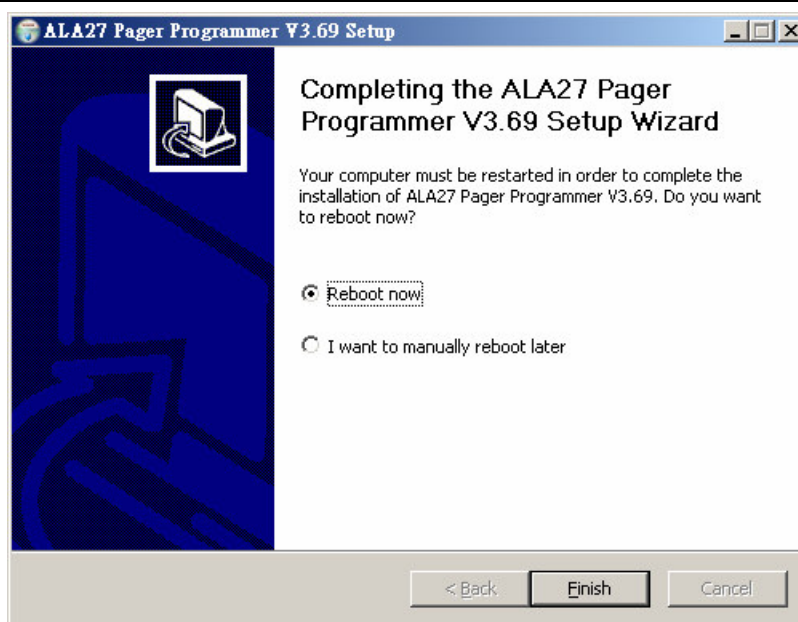
6. On the Select Program Folder screen choose where you would like the program to show up in your start menu and click “Install”.

Installing Programmer Software



7. Click “Finish” on the Setup Complete screen.





Running

**You now have the program installed. To run it from the Start menu/
Programs/ Gold Apollo /ALA27 Pager Programmer**

ALA27 Programming

Introduction

Preparing a Pager for Reading or Programming:

- Establish a computer hardware configuration.
- Run the programming software of ALA27.
- A Power LED illuminates on the Programming Interface to indicate proper contact. If the Power LED did not illuminate then you must check the configuration and restart the programming software of ALA27.
- Align the pager contact pin holes with the contact pins of the ALA27 Programmer.
- Press down on the pager until it is tight in the fixture.
- Turn the pager off or wait the pager until standby mode. The pager is now ready to read or program.

Starting the Programmer

The application can be launched from **Start → Programs → Gold Apollo → ALA27 Pager Programmer**. The following window appears



Input your password. If key in wrong password for 3 times, the system shuts off automatically. If the password is correct, the following window appears :



Now, the system examines that the ALA27 programmer is well installed. If any questions, the following window appears :



Please re-check the ALA27 programmer and printer port are well installed or not. If the connection with the ALA27 Programmer are OK. The system enters the Code and Features Menu •

Code and Features Menu

ALA27 Pager Programmer V3.69

File Pager Help

Code and Features Alerts and Status Prompts Edit

Frequency

Range Of Frequency: 130-180MHz Frequency Of Pager: 1530000 00Hz

POCSAG Signal Baud Rate: 1200 bps

Capcode (Decimal Address)

Cap	Address	ON	Fun. Bit	En	Priority	Disp	Type
Cap #1	1234567	<input checked="" type="checkbox"/>	ON	Fun. Bit	En: vvvv	Priority: ----	Disp: AAAA Type: PPPP
Cap #2	1234560	<input type="checkbox"/>	ON	Fun. Bit	En: vvvv	Priority: ----	Disp: AAAA Type: PPPP
Cap #3	1234561	<input type="checkbox"/>	ON	Fun. Bit	En: vvvv	Priority: ----	Disp: AAAA Type: PPPP
Cap #4	1234562	<input type="checkbox"/>	ON	Fun. Bit	En: vvvv	Priority: ----	Disp: AAAA Type: PPPP
Cap #5	1234563	<input type="checkbox"/>	ON	<input type="checkbox"/> Priority	Display: Alpha	Type: Personal	
Cap #6	1234564	<input type="checkbox"/>	ON	<input type="checkbox"/> Priority	Display: Alpha	Type: Personal	

Message Type Status (PG:Personal & Group M:Mail Drop)

	PG	M1	M2	M3	M4	M5	M6	M7	M8	M9	MA	MB	MC	MD	ME
Alert Length	08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
History	15	09	09	09	00	00	00	00	00	00	00	00	00	00	00
Memory(KB)	03	3.0	3.0	3.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Auto Increase 1 After Write

☐ 1st Capcode Auto Increase ☐ 2nd Capcode Auto Increase

Frequency

Frequency

Range Of Frequency: 130-180MHz Frequency Of Pager: 1530000 00Hz

POCSAG Signal Baud Rate: 1200 bps

- **Range Of Frequency**

You can select the range of frequency and all setting will load default value.

- **Frequency Of Pager**

The frequency is on which the pager operates.

- **POCSAG Signal Baud Rate**

The baud rate is on which the pager operates..

Capcode (Decimal Address)

Capcode (Decimal Address)									
Cap #1	1234567	<input checked="" type="checkbox"/> ON	Fun. Bit	En:vvvv	Priority:----	Disp:AAAA	Type:PPPP		
Cap #2	1234560	<input type="checkbox"/> ON	Fun. Bit	En:vvvv	Priority:----	Disp:AAAA	Type:PPPP		
Cap #3	1234561	<input type="checkbox"/> ON	Fun. Bit	En:vvvv	Priority:----	Disp:AAAA	Type:PPPP		
Cap #4	1234562	<input type="checkbox"/> ON	Fun. Bit	En:vvvv	Priority:----	Disp:AAAA	Type:PPPP		
Cap #5	1234563	<input type="checkbox"/> ON	<input type="checkbox"/> Priority	Display:	Alpha		Type:	Personal	
Cap #6	1234564	<input type="checkbox"/> ON	<input type="checkbox"/> Priority	Display:	Alpha		Type:	Personal	

- **Cap #1**

Please input 1st Capcode (7 Dec digits between 8 and 2097151).

- **ON**

Enable or disable 2nd Capcode (address).

- **Fun. Bit**

Click to set function bit(A 、 B 、 C 、 D) message control.

- En: vvvv

Function Bit(A、B、C、D) Enable Control: V is Enable, - is disable.

- Priority: ----

Function Bit(A、B、C、D) Priority Alert: V is Enable, - is disable.

- Disp: AAAA

Function Bit(A、B、C、D) Message Display:

N: Standard Number.

P: PRC Number.

A: Alpha number.

I: Ideographic.

- Type: PPPP

Function Bit(A、B、C、D) Message Type:

P: Personal.

1 to 9: Mail Drop 1 to Mail Drop 9.

A to E: Mail Drop A to Mail Drop E.

G: Group.

Message Type Status

Message Type Status (PG:Personal & Group M:Mail Drop)		PG	M1	M2	M3	M4	M5	M6	M7	M8	M9	MA	MB	MC	MD	ME
Msg Status Select	Alert Length	08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	History	15	09	09	09	00	00	00	00	00	00	00	00	00	00	00
	Memory(KB)	03	3.0	3.0	3.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

- **Msg Status Select**

Click to set personal and mail drop(1~9、A~E) messages status.

Personal and Mail Drop Status Control

Personal and Group Status

Personal: Alert Length 8 sec Memory 3KB

Mail Drop Status (A:Alert Length H:History M:Memory)

Drop 1: A [Disable] H 9 M 3.0KB	Drop 8: A [Disable] H 0 M 0.5KB
Drop 2: A [Disable] H 9 M 3.0KB	Drop 9: A [Disable] H 0 M 0.5KB
Drop 3: A [Disable] H 9 M 3.0KB	Drop A: A [Disable] H 0 M 0.5KB
Drop 4: A [Disable] H 0 M 0.5KB	Drop B: A [Disable] H 0 M 0.5KB
Drop 5: A [Disable] H 0 M 0.5KB	Drop C: A [Disable] H 0 M 0.5KB
Drop 6: A [Disable] H 0 M 0.5KB	Drop D: A [Disable] H 0 M 0.5KB
Drop 7: A [Disable] H 0 M 0.5KB	Drop E: A [Disable] H 0 M 0.5KB

Total History 58% Total Memory 64%

Ok

Personal and Mail Drop Status Control

Personal and Group Status

Personal: Alert Length 8 sec Memory 3KB

Mail Drop Status(A:Alert Length H:History M:Memory)

Drop 1: A: Disable H: 9 M: 3.0KB	Drop 8: A: Disable H: 0 M: 0.5KB
Drop 2: A: Disable H: 9 M: 3.0KB	Drop 9: A: Disable H: 0 M: 0.5KB
Drop 3: A: Disable H: 9 M: 3.0KB	Drop A: A: Disable H: 0 M: 0.5KB
Drop 4: A: Disable H: 0 M: 0.5KB	Drop B: A: Disable H: 0 M: 0.5KB
Drop 5: A: Disable H: 0 M: 0.5KB	Drop C: A: Disable H: 0 M: 0.5KB
Drop 6: A: Disable H: 0 M: 0.5KB	Drop D: A: Disable H: 0 M: 0.5KB
Drop 7: A: Disable H: 0 M: 0.5KB	Drop E: A: Disable H: 0 M: 0.5KB

Total History 58% Total Memory 64%

Ok

Personal and Mail Drop Status Control

Personal and Group Status

Personal: Alert Length 8 sec Memory 3KB

Mail Drop Status(A:Alert Length H:History M:Memory)

Drop 1: A: Disable H: 9 M: 3.0KB	Drop 8: A: Disable H: 0 M: 0.5KB
Drop 2: A: Disable H: 9 M: 3.0KB	Drop 9: A: Disable H: 0 M: 0.5KB
Drop 3: A: Disable H: 9 M: 3.0KB	Drop A: A: Disable H: 0 M: 0.5KB
Drop 4: A: Disable H: 0 M: 0.5KB	Drop B: A: Disable H: 0 M: 0.5KB
Drop 5: A: Disable H: 0 M: 0.5KB	Drop C: A: Disable H: 0 M: 0.5KB
Drop 6: A: Disable H: 0 M: 0.5KB	Drop D: A: Disable H: 0 M: 0.5KB
Drop 7: A: Disable H: 0 M: 0.5KB	Drop E: A: Disable H: 0 M: 0.5KB

Total History 58% Total Memory 64%

Ok

Personal and Mail Drop Status Control

Personal and Group Status

Personal: Alert Length 8 sec Memory 3KB

Mail Drop Status(A:Alert Length H:History M:Memory)

Drop 1: A: Disable H: 9 M: 3.0KB	Drop 8: A: Disable H: 0 M: 0.5KB
Drop 2: A: Disable H: 9 M: 3.0KB	Drop 9: A: Disable H: 0 M: 0.5KB
Drop 3: A: Disable H: 9 M: 3.0KB	Drop A: A: Disable H: 0 M: 0.5KB
Drop 4: A: Disable H: 0 M: 0.5KB	Drop B: A: Disable H: 0 M: 0.5KB
Drop 5: A: Disable H: 0 M: 0.5KB	Drop C: A: Disable H: 0 M: 0.5KB
Drop 6: A: Disable H: 0 M: 0.5KB	Drop D: A: Disable H: 0 M: 0.5KB
Drop 7: A: Disable H: 0 M: 0.5KB	Drop E: A: Disable H: 0 M: 0.5KB

Total History 58% Total Memory 64%

Ok

- PG
Alert Length 08

The available selections for all personal and group call messages alerts are:

02: 2 sec.

08: 8 sec.

16: 16 sec.

32: 32 sec.

CT: continuous.

- PG M1
Alert Length 08 --

The available selections for mail drop messages alerts are:

--: Disable.

BP: Short Beep.

01: 1 sec.

16: 16 sec.

- **History**

The selections are only available on mail-drop addresses. The pager can keep up several history messages. Valid selections are: 0~9.

- **Memory**

The available selections for mail-drop memory size are: 0.5 KB, 1.0 KB, 1.5KB, 2.0 KB, 2.5 KB, and 3.0 KB.

The available selections for personal memory size are: 3 KB ~ 15KB.

Auto Increase 1 after write

Auto Increase 1 After Write

☐ 1st Capcode Auto Increase

☐ 2nd Capcode Auto Increase

- ☐ 1st Capcode Auto Increase

1st capcode always increment by one after write.

- ☐ 2nd Capcode Auto Increase

2nd capcode always increment by one after write.

Alert and Status

ALA27 Pager Programmer V3.69

File Pager Help

Code and Features **Alerts and Status** **Prompts Edit**

Alerts and Status

☐ Alert and Vibrate Paging Display Mode **Page Count**

☐ Discard Error Msg ☒ Disp Source Addr ON Sequential Lockout **disable**

☒ Lowcell Alert ON Polarity **Normal** Reminder Duration **2 minutes**

Battery Gauge Level-High **2.54V** ☒ Duplicate Msg. Out-of Service **Disable**

Battery Gauge Level-Med **2.46V** Read Time Out **12 sec** Password(4 Dec) **0000**

Battery Gauge Level-Low **2.40V** Screen Contrast **4** **Screen**

☒ Long Message Control Enable ☒ Counter Out Enable

Menu Of Pager

☐ Set Scroll Disable ☐ Set Alarm Disable ☐ Zoom In Disable

☐ Pager Off Disable ☐ Set Time Disable

☐ Auto Sleep Disable ☐ Set Alert Disable

Manual Write

☒ Manual Write Enable ☒ Password Required Enable

☒ Frequency Modification Enable ☒ Password Modification Enable

Prompts

Power Up Logo **APOLLO** **L C R** Logo Font **English(Large)**

Prompt Language Type **English** Date Display Method **mm-dd-yy**

Alerts and Status

- ☐ Alert and Vibrate

If it is selected, beep and vibration will active together.

- ☐ Discard Error Msg

If it is selected, error message will be discarded.

- ☒ Lowcell Alert ON

If it is selected, the pager emits a, low battery cell alert when the battery reaches a low cell state.

- Battery Gauge Level-High **2.54V**

This value represents the battery voltage level necessary for the battery gauge to display a full battery. If the battery voltage is higher or equal to this value, the full battery gauge icon is displayed. Valid selections are: 2.54V, 2.50V, 2.48V, 2.46V, 2.43V, 2.40V, 2.38V, 2.35V, and 2.30V. The High level must be greater than the Med level, and the Med level Must be greater than the Low level. None of the levels can be equal to each other.

-

This value represents the battery voltage level necessary for the battery gauge to display a full battery. If the battery voltage is higher or equal to this value, the full battery gauge icon is displayed. Valid selections are: 2.54V, 2.50V, 2.48V, 2.46V, 2.43V, 2.40V, 2.38V, 2.35V, and 2.30V. The High level must be greater than the Med level, and the Med level Must be greater than the Low level. None of the levels can be equal to each other.

-

This value represents the battery voltage level necessary for the battery gauge to display a full battery. If the battery voltage is higher or equal to this value, the full battery gauge icon is displayed. Valid selections are: 2.54V, 2.50V, 2.48V, 2.46V, 2.43V, 2.40V, 2.38V, 2.35V, and 2.30V. The High level must be greater than the Med level, and the Med level Must be greater than the Low level. None of the levels can be equal to each other.

- ☒ Long Message Control Enable

If it is selected, then the message most length is 2,000 characters, otherwise only can 300 characters.

-

If “Direct” is selected then the message will show on the display at a message received. Otherwise it only shows a message location icon on the display.

- ☒ Disp Source Addr ON

If it is selected, the message will show the address source at last.

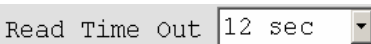
-

It select the RF signal polarity is normal or invert.

- ☒ Duplicate Msg.

If it is selected, duplication detection is performed on all personal messages with the same message type as the new message, on a character by character basis. Error characters are ignored during the check. If all non-error characters in both messages match, the existing matching message is flagged as a duplicate. The message with the least number of errors is stored and the

other messages are discarded. Duplication is not performed on mail-drop messages.


- Read Time Out 12 sec

The current pager display changes after the selected time frame has expired.

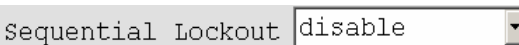
Valid selections are: 8 sec, 12 sec, 20 sec, 30 sec.

- Screen Contrast 4 Screen

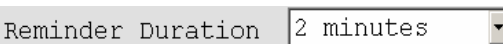
It selects the LCD display contract level.

- ☒ Counter Out Enable

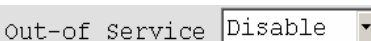
If it is selected, the message will indicate the counter number at first.

- Sequential Lockout disable

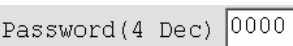
The value is a sequential lockout timer begins when a message arrives and is flagged as being sequentially locked out. If duplicate messages arrive, one of the messages is disregarded and not flagged as a duplicate. Valid selections are disabled, 30 seconds, 60 seconds, 120 seconds, 175 seconds and 240 seconds.

- Reminder Duration 2 minutes

With this option selected, the time period begins with a newly arrived message and is reset every time a new message is received. Once the time period expires, the pager does not emit any more reminder alerts until a new message arrives. Valid time period selections are: Disable, 2 minutes, 10 minutes and 60 minutes.

- Out-of Service Disable

With an out-of-service time specified by the code plug, the pager is considered “out of service” when it does not detect a POCSAG synchronization word for that time period. The out-of-service icon displays at this time. Valid selections are: disabled, 1 min, 2 min, 5 min and 10 min.

- Password(4 Dec) 0000

It is used for the user’s manual programming.

Manu Of Pager

Menu Of Pager

- | | | |
|---|--|--|
| <input type="checkbox"/> Set Scroll Disable | <input type="checkbox"/> Set Alarm Disable | <input type="checkbox"/> Zoom In Disable |
| <input type="checkbox"/> Pager Off Disable | <input type="checkbox"/> Set Time Disable | |
| <input type="checkbox"/> Auto Sleep Disable | <input type="checkbox"/> Set Alert Disable | |

- ☐ Set Scroll Disable

If it is selected, menu of scroll is disabled.

- ☐ Pager Off Disable

If it is selected, menu of pager off is disabled.

- ☐ Auto Sleep Disable

If it is selected, menu of auto sleep is disabled.

- ☐ Set Alarm Disable

If it is selected, menu of set alarm is disabled.

- ☐ Set Time Disable

If it is selected, menu of set time is disabled.

- ☐ Set Alert Disable

If it is selected, menu of set alert is disabled.

- ☐ Zoom In Disable

If it is selected, menu of zoom function will be disabled.

Manual Write

Manual Write

- | | |
|---|--|
| <input checked="" type="checkbox"/> Manual Write Enable | <input checked="" type="checkbox"/> Password Required Enable |
| <input checked="" type="checkbox"/> Frequency Modification Enable | <input checked="" type="checkbox"/> Password Modification Enable |

- ☒ Manual Write Enable

If it is selected, manual write enable.

- ☒ Frequency Modification Enable

If it is selected, frequency modification is enabled at manual programming.

- ☒ Password Required Enable

If it is selected, enters manual programming password is required.

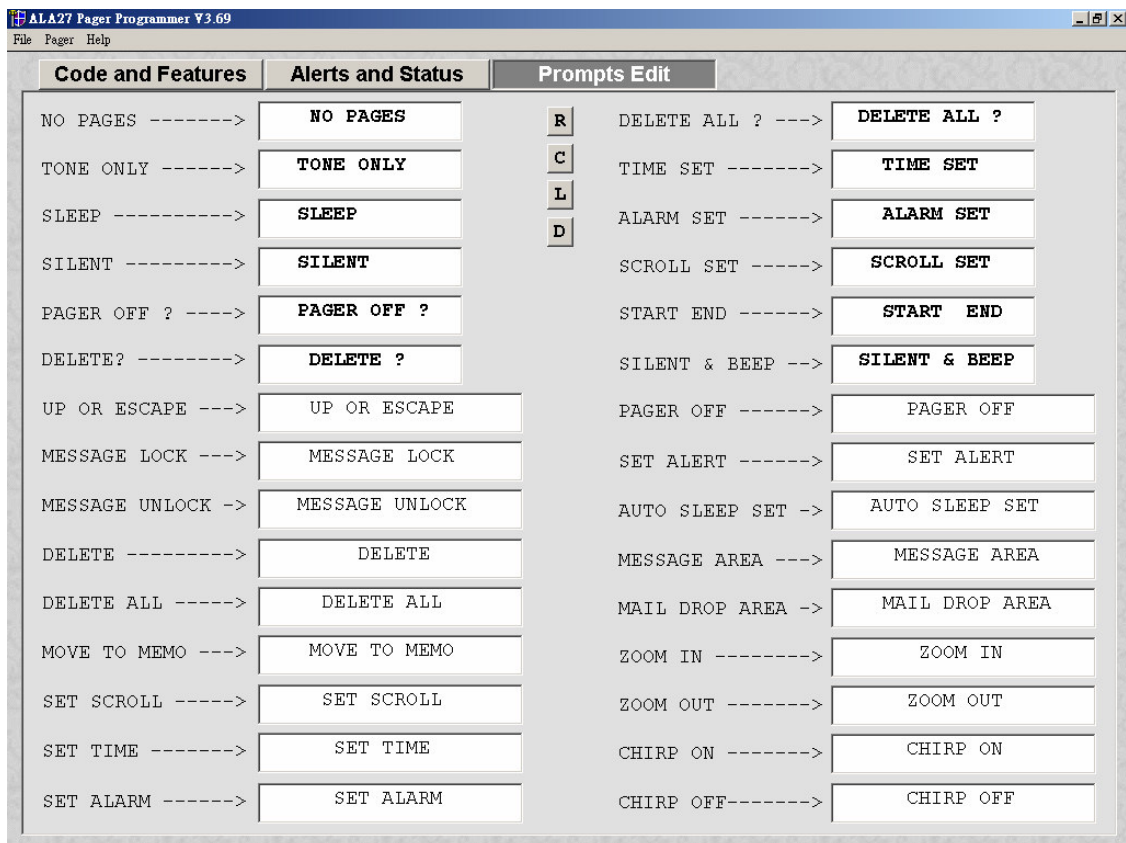
- ☒ Password Modification Enable

If it is selected, enters manual programming password can be modification.

Prompts

Prompts			
Power Up Logo	<input type="text" value="APOLLO"/>	<input type="button" value="L"/> <input type="button" value="C"/> <input type="button" value="R"/>	Logo Font <input type="text" value="English(Large)"/>
Prompt Language Type	<input type="text" value="English"/>	Date Display Method	<input type="text" value="mm-dd-yy"/>

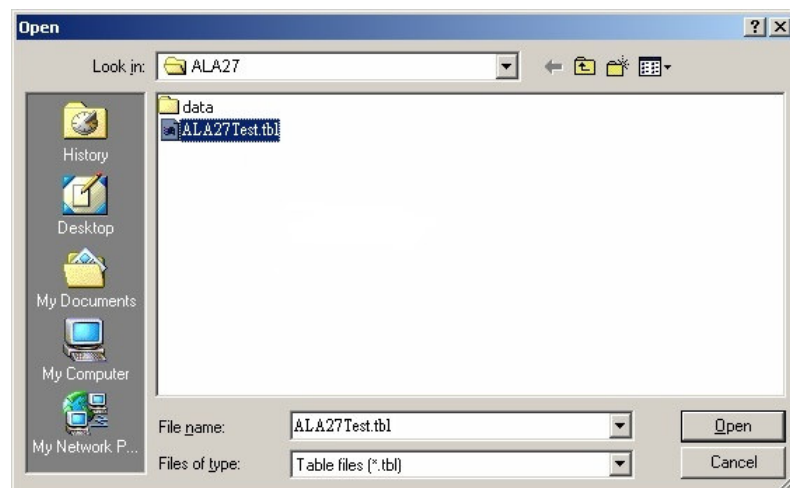
Prompts Edit



Each prompt can be customized in the code plug, if desired, or the defaults can be used.

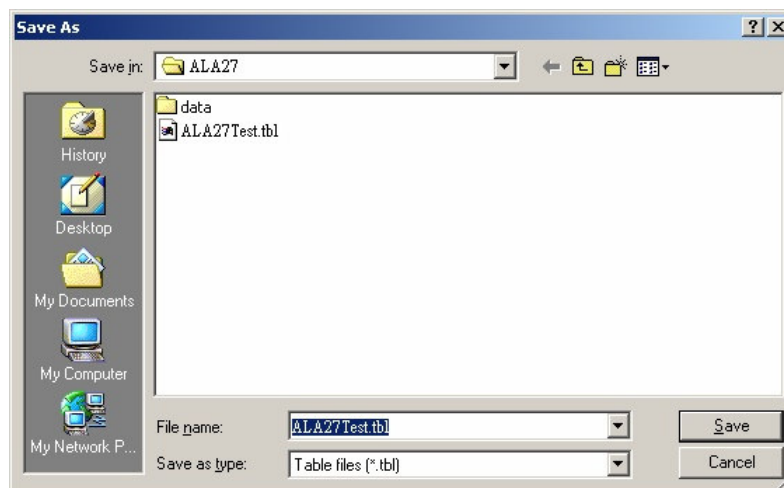
File | Open (Ctrl + O)

Click “Open” or “Ctrl + O” to open the ALA27 code-plug file. The file has the extension “.tbl”.



File | Save (Ctrl + S)

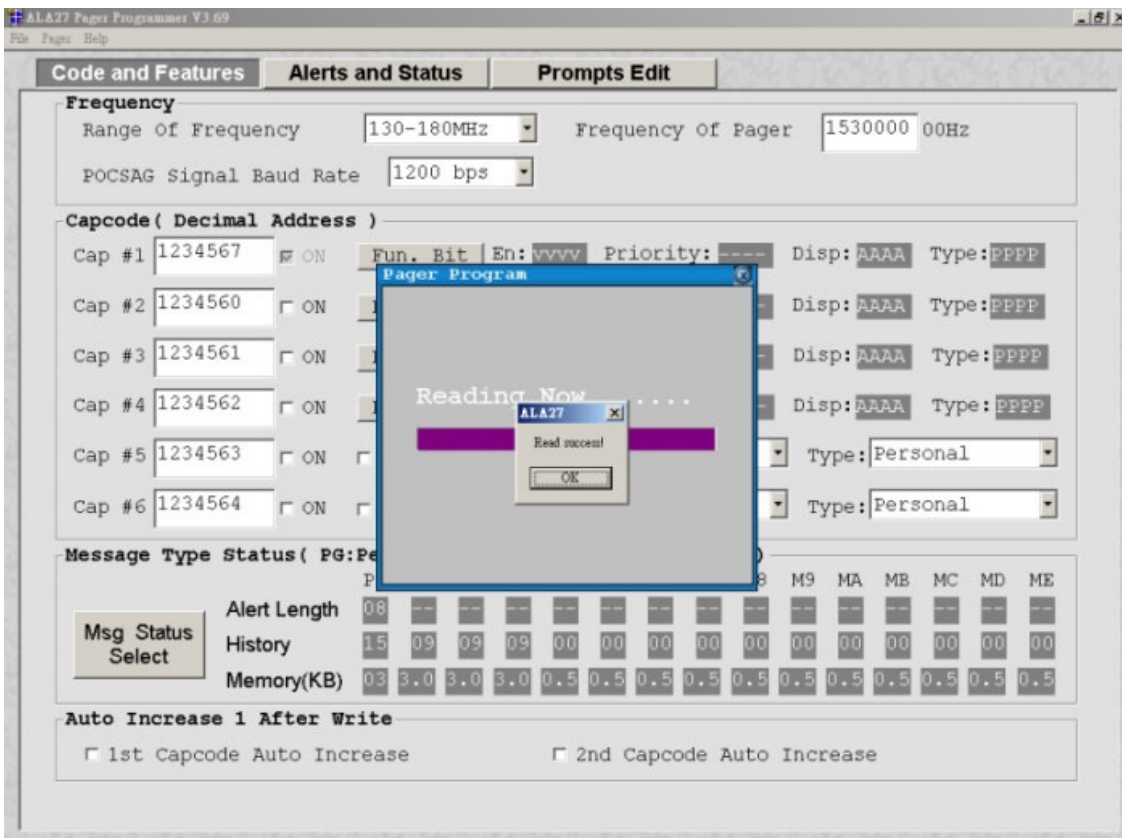
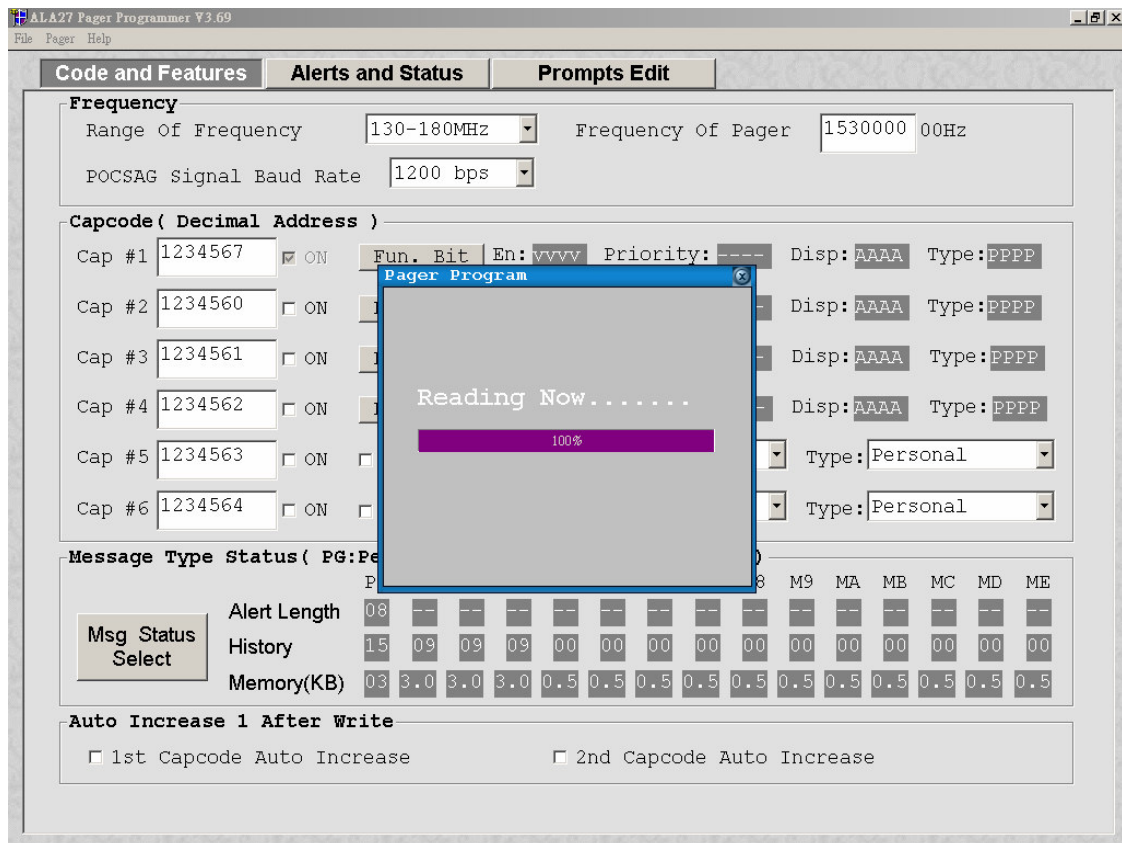
Click “Save” or “Ctrl + S”, save the current code-plug data to a file.

**File | Exit (Ctrl + E)**

Exit the programmer software.

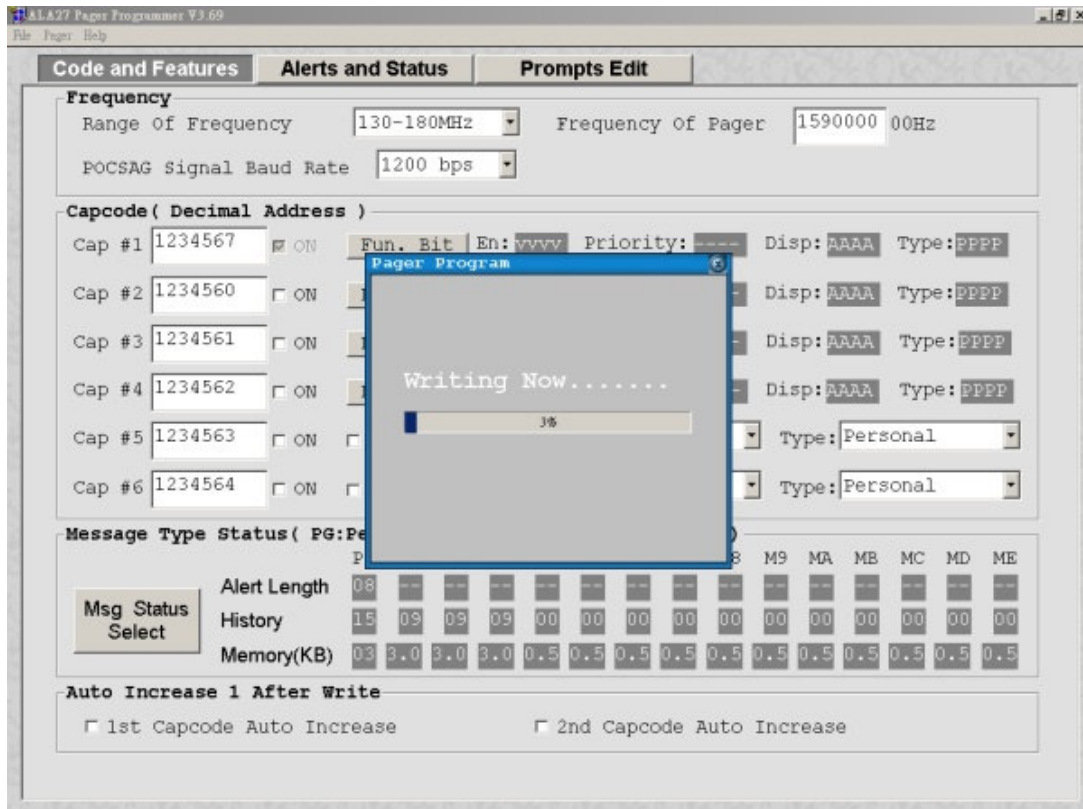
Pager | Read (F3)

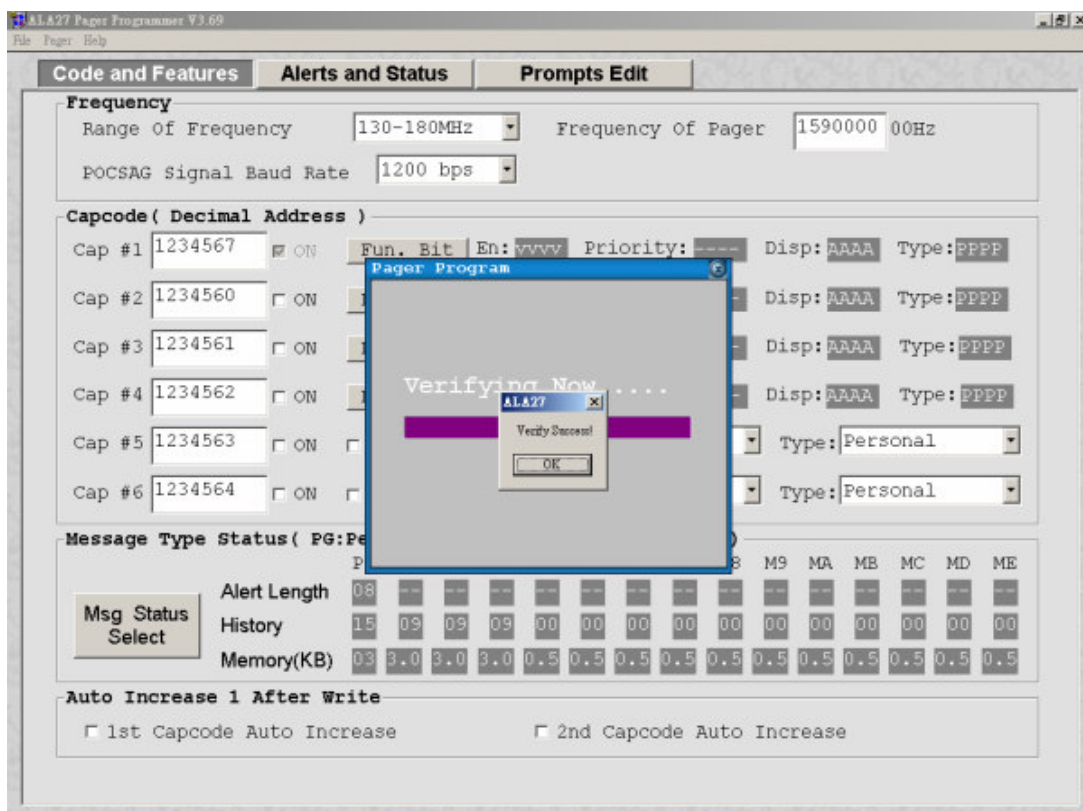
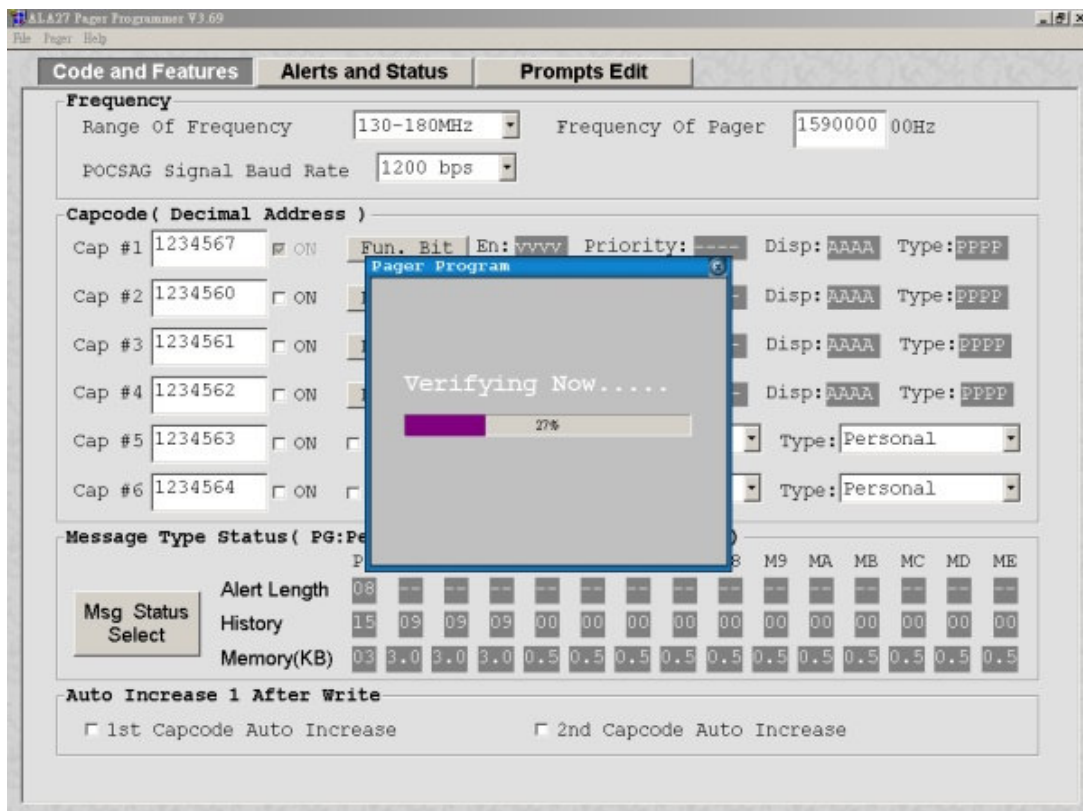
Click “Read” or press “F3” to read code-plug data from a ALA27. The status window shows reading process, when it's done, you will see a message window of 『 Read success 』 on the screen.



Pager | Write (F4)

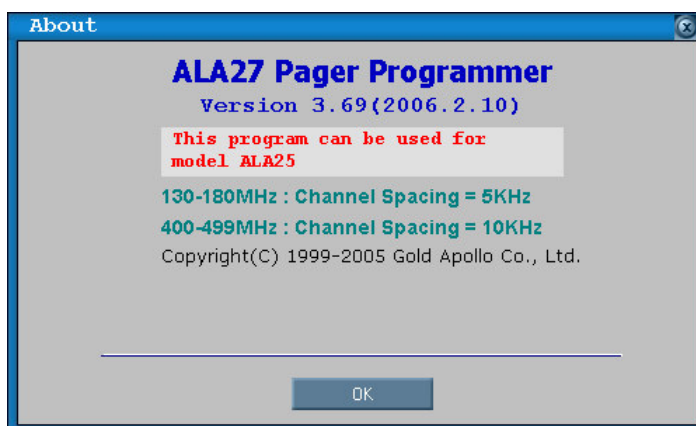
Click “Write” or press “F4” to program the ALA27. The status window shows the writing process. When writing process finished, will starting verify process, when it is done, you will see a window of 『Verify success』 on the screen.





About

About the ALA27 Pager Programmer software information.



* Be sure to remove & re-insert the battery after programming the pager to save the data.*