Gold Apollo Co., Ltd.

PAGER PROGRAMMING GUIDE

Alpha-Numeric Display Pager

MODEL : AL-A27

Contents

GETTING STARTED 1

EQUIPMENT REQUIRED 1
EQUIPMENT SETUP 1

INSTALLING PROGRAMMER SOFTWARE 3

INSTALLATION 3
RUNNING 6

ALA27 PROGRAMMING 7

INTRODUCTION 7
STARTING THE PROGRAMMER 7
CODE AND FEATURES MENU 9
Frequency 9
Capcode (Decimal Address) 10
Message Type Status 12
Auto Increase 1 after write 15
ALERT AND STATUS 16
Alerts and Status 16
Manu Of Pager 19
Manual Write 19
Prompts 20
PROMPTS EDIT 21
FILE | OPEN (CTRL + O) 21
FILE | SAVE (CTRL + S) 22
FILE | EXIT (CTRL + E) 22
PAGER | READ (F3) 22
PAGER | WRITE (F4) 24
ABOUT 26

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.**

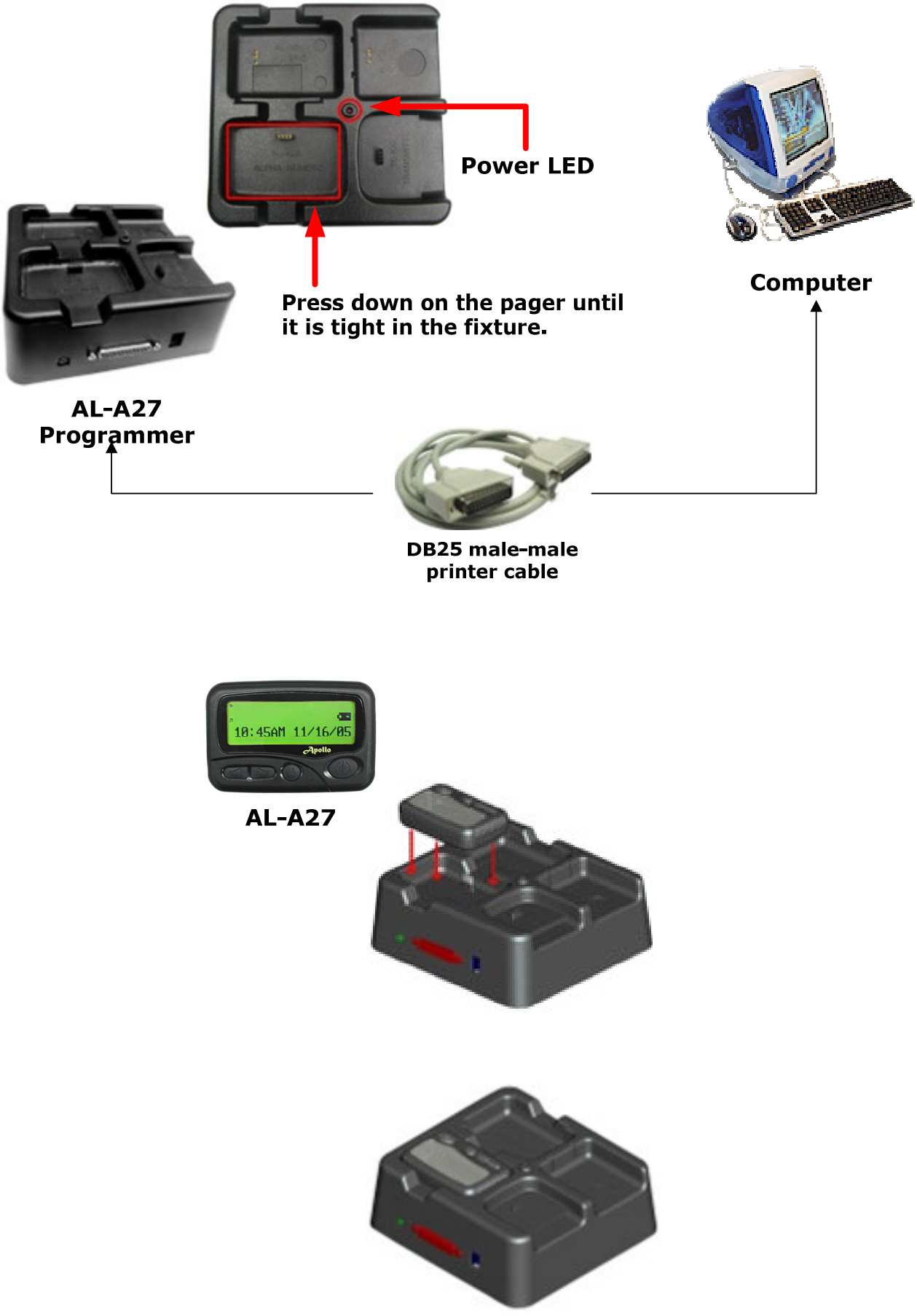


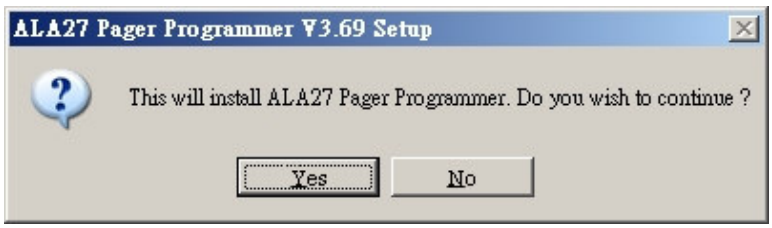
Figure 1 Programmer Hardware Connections

Installing Programmer Software

Installation

Install the programmer software into a PC as follows:

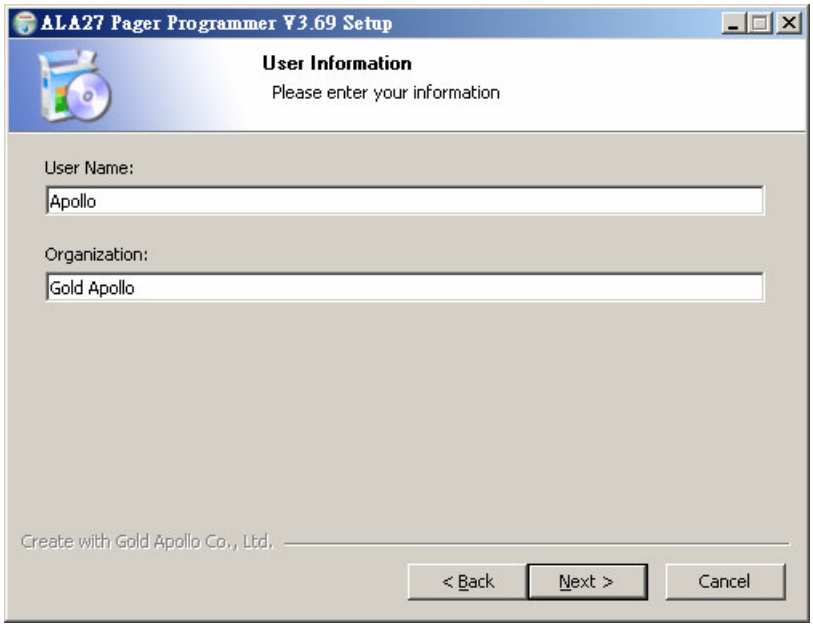
1. **Uncompress the ALA27V369.zip and save them in a temporary directory.**
2. **Double click the setup.exe file. Click on "Y".**



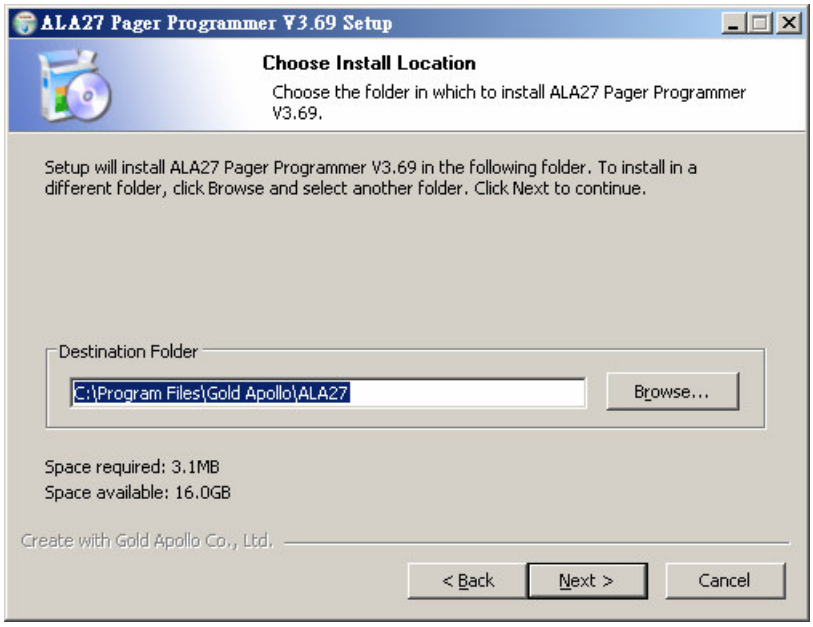
3. **Click "Next" on the Welcome screen.**

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

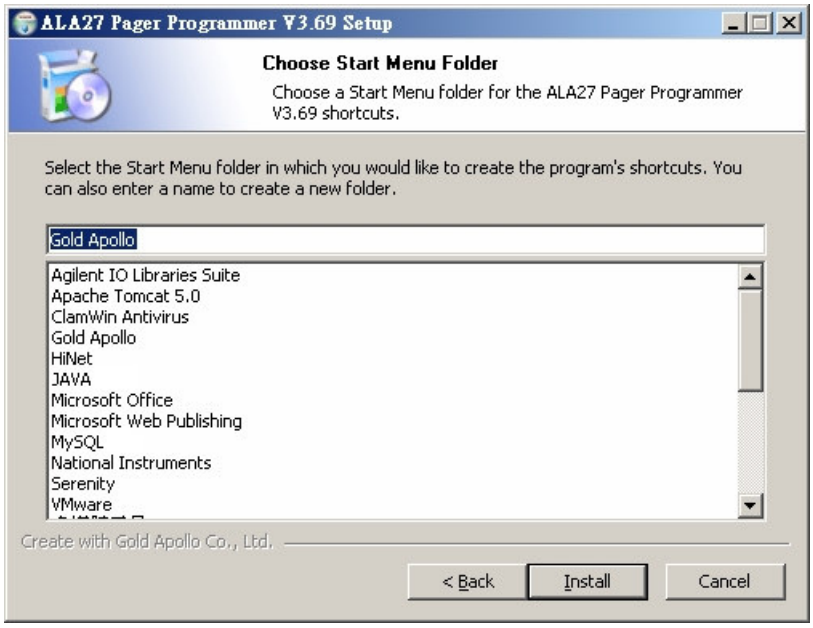
(Note: you must enter at least a single character "into the company field)



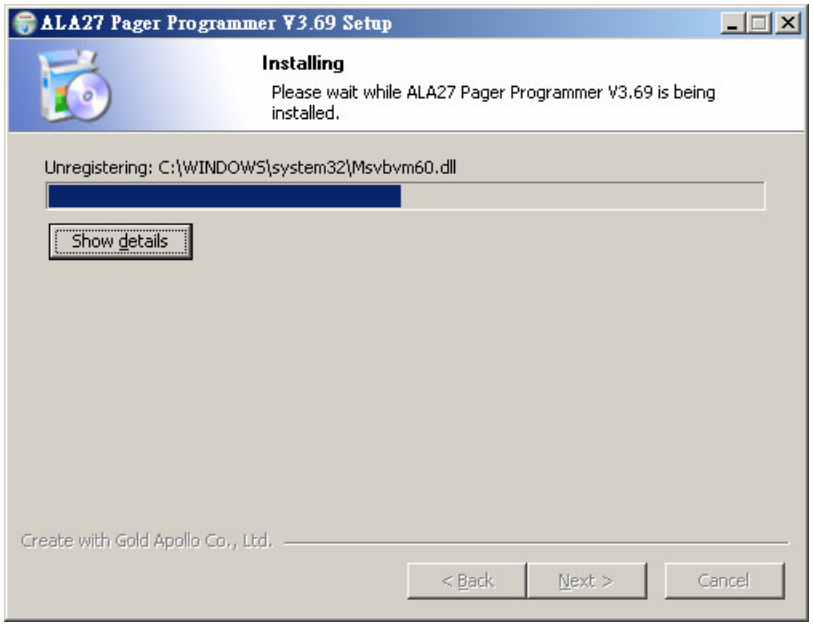
5. Choose where the program should be installed and click "Next".

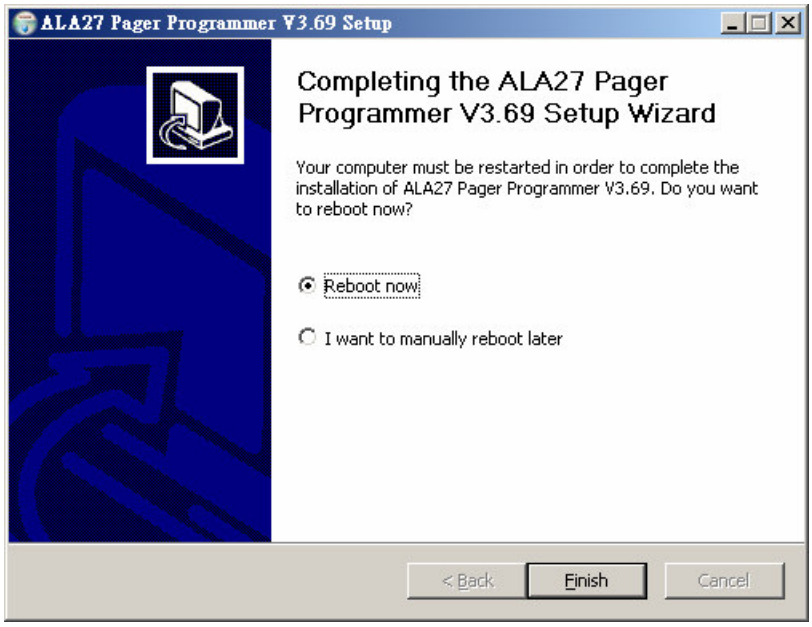


6. On the Select Program Folder screen choose where you would like the program to show up in your start menu and click "Install".



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

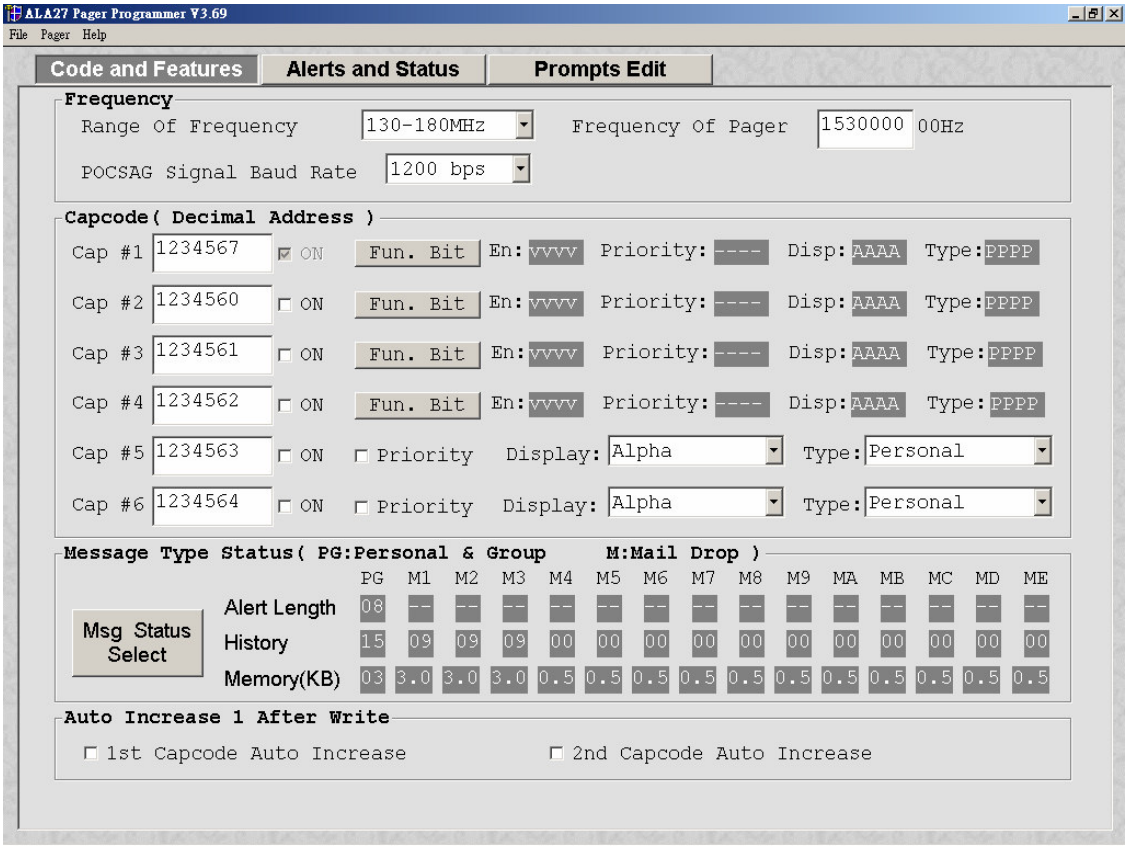
The application can be launched from Start → Programs → Gold Apollo → ALA27 Pager Programmer. The following window appears

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



Frequency

- **Range Of Frequency**

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

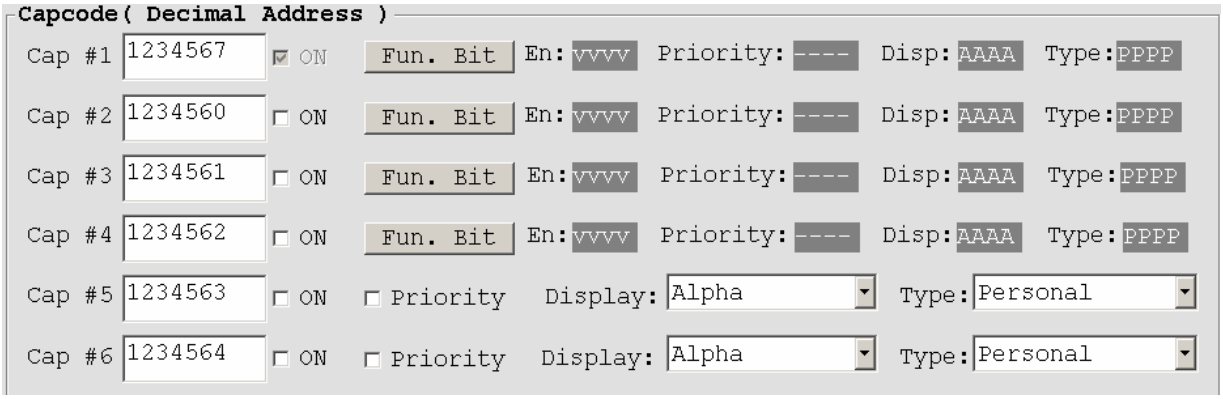
- **Frequency Of Pager**

The frequency is on which the pager operates.

- **POCSAG Signal Baud Rate**

The baud rate is on which the pager operates..

Capcode (Decimal Address)



- **Cap #1**

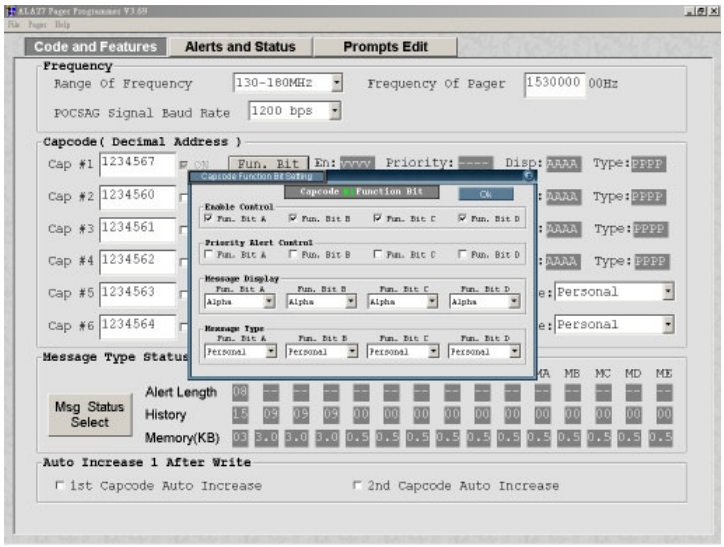
Please input 1st Capcode (7 Dec digits between 8 and 2097151).

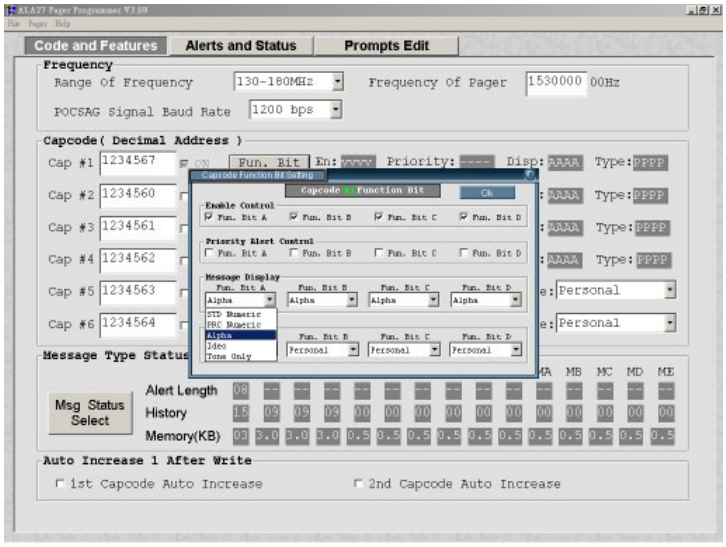
- **ON**

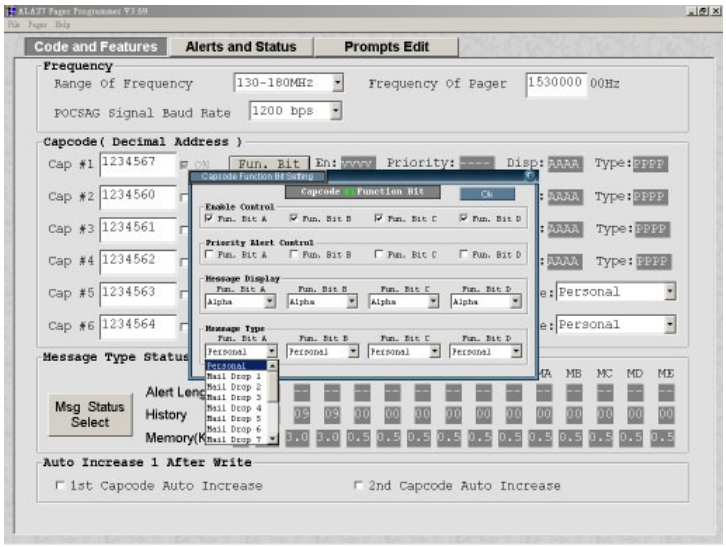
Enable or disable 2nd Capcode (address).

- 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:

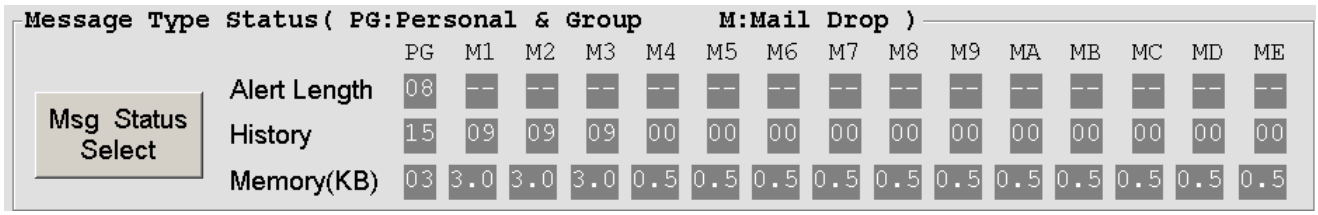
P: Personal.

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

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

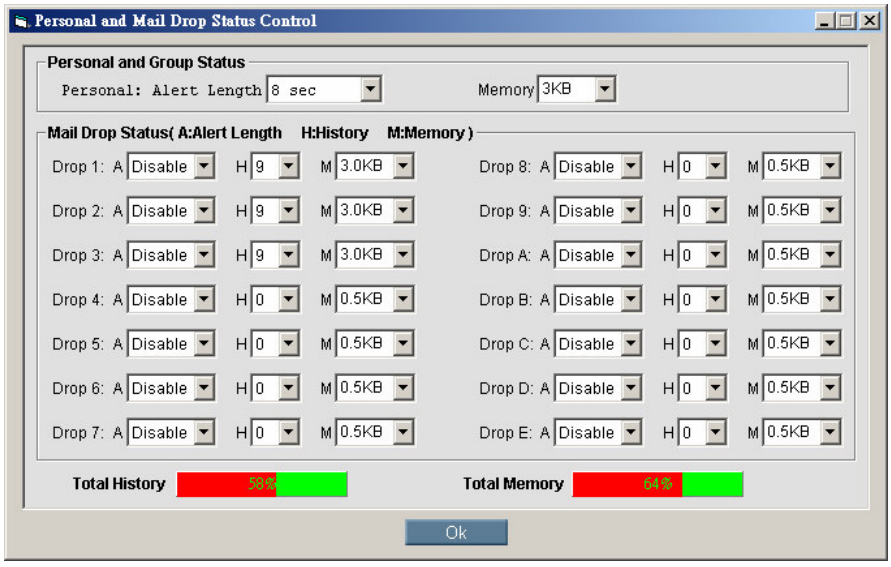
G: Group.

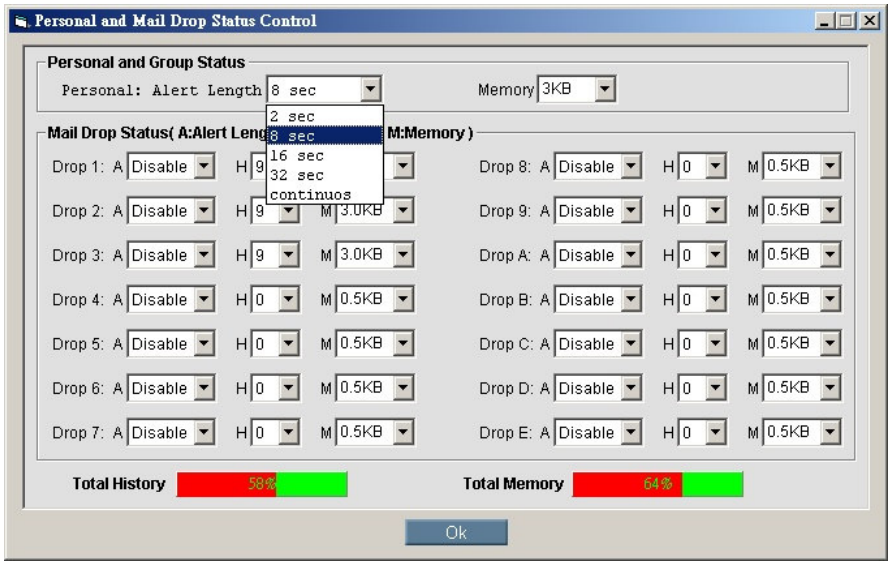
Message Type Status

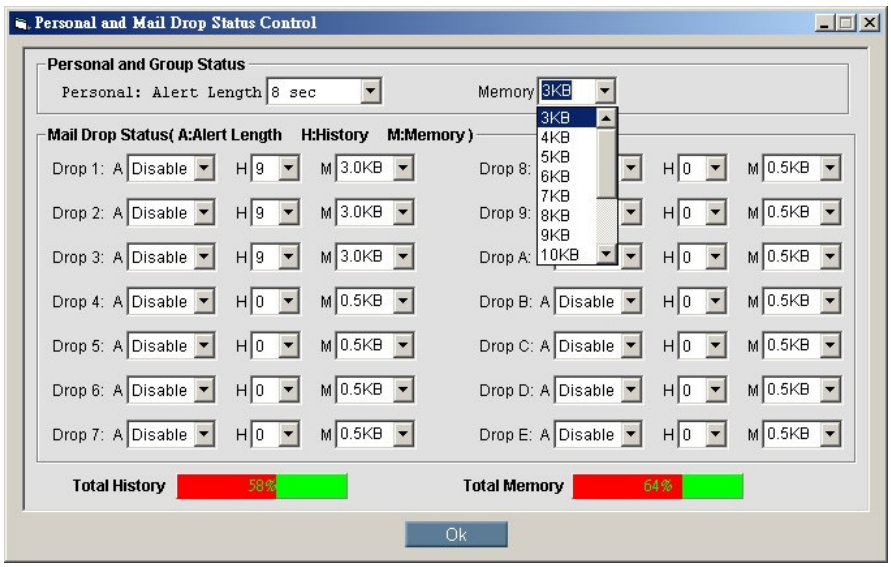


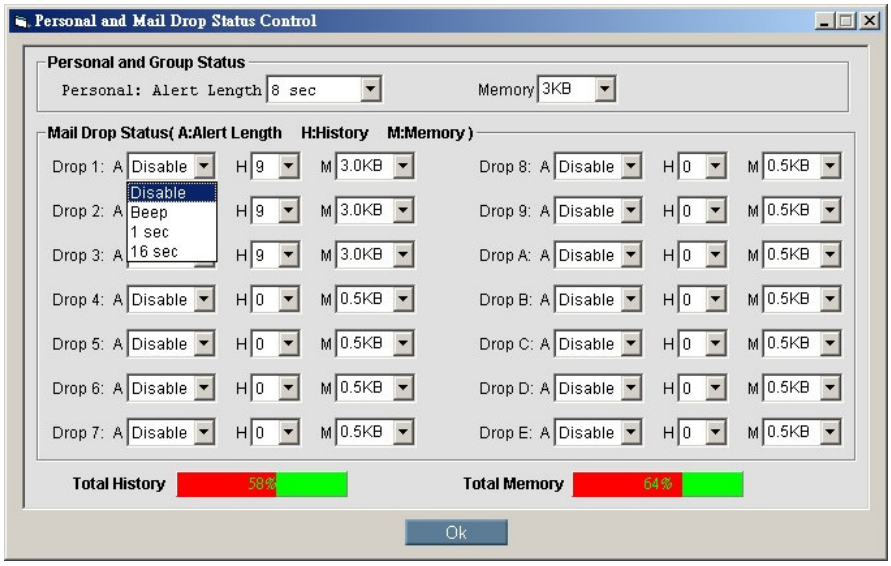
- Msg Status Select

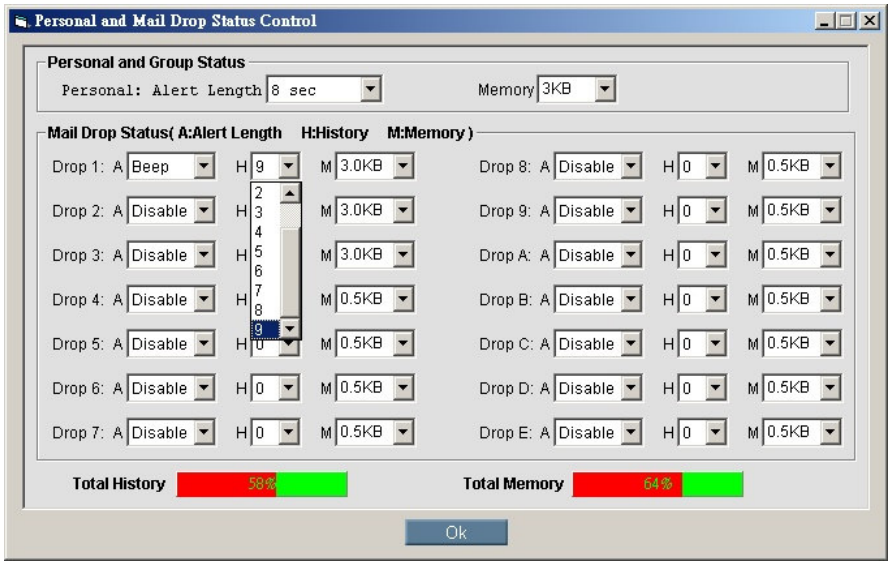
Click to set personal and mail drop(1~9、A~E) messages status.

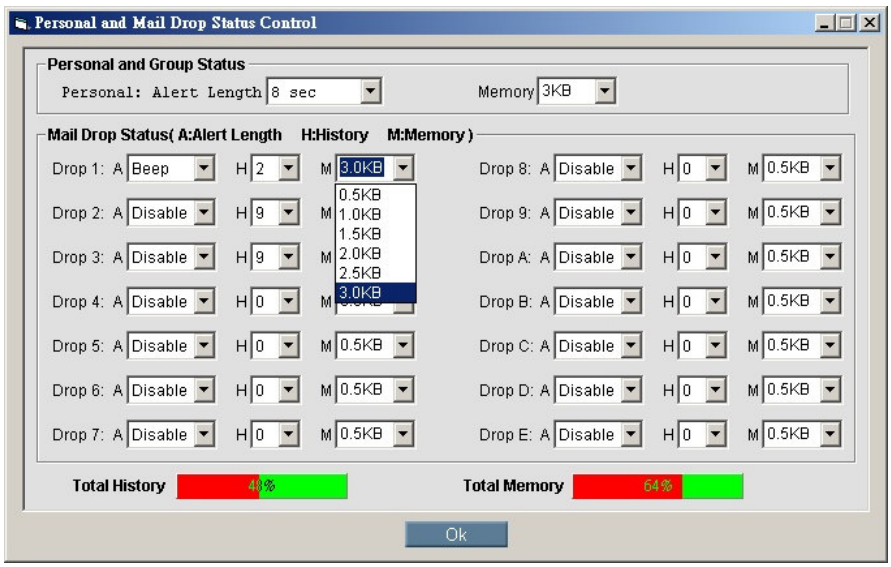



Personal and Mail Drop Status Control
Personal and Group Status
Personal: Alert Length 8 sec
Memory 3KB
2 sec
8 sec
16 sec
32 sec
continuos
Mail Drop Status(A:Alert Length H:History M:Memory)
Drop 1: A Disable H 9 M 3.0KB
Drop 2: A Disable H 9 M 3.0KB
Drop 3: A Disable H 9 M 3.0KB
Drop 4: A Disable H 0 M 0.5KB
Drop 5: A Disable H 0 M 0.5KB
Drop 6: A Disable H 0 M 0.5KB
Drop 7: A Disable H 0 M 0.5KB
Drop 8: A Disable H 0 M 0.5KB
Drop 9: A Disable H 0 M 0.5KB
Drop A: A Disable H 0 M 0.5KB
Drop B: A Disable H 0 M 0.5KB
Drop C: A Disable H 0 M 0.5KB
Drop D: 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
3KB
4KB
5KB
6KB
7KB
8KB
9KB
10KB
Mail Drop Status(A:Alert Length H:History M:Memory)
Drop 1: A Disable H 9 M 3.0KB
Drop 2: A Disable H 9 M 3.0KB
Drop 3: A Disable H 9 M 3.0KB
Drop 4: A Disable H 0 M 0.5KB
Drop 5: A Disable H 0 M 0.5KB
Drop 6: A Disable H 0 M 0.5KB
Drop 7: A Disable H 0 M 0.5KB
Drop 8: H 0 M 0.5KB
Drop 9: H 0 M 0.5KB
Drop A: H 0 M 0.5KB
Drop B: A Disable H 0 M 0.5KB
Drop C: A Disable H 0 M 0.5KB
Drop D: 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)
Disable
Beep
1 sec
16 sec
Drop 1: A Disable H 9 M 3.0KB
Drop 2: A H 9 M 3.0KB
Drop 3: A H 9 M 3.0KB
Drop 4: A Disable H 0 M 0.5KB
Drop 5: A Disable H 0 M 0.5KB
Drop 6: A Disable H 0 M 0.5KB
Drop 7: A Disable H 0 M 0.5KB
Drop 8: A Disable H 0 M 0.5KB
Drop 9: A Disable H 0 M 0.5KB
Drop A: A Disable H 0 M 0.5KB
Drop B: A Disable H 0 M 0.5KB
Drop C: A Disable H 0 M 0.5KB
Drop D: A Disable H 0 M 0.5KB
Drop E: A Disable H 0 M 0.5KB
Total History 58%
Total Memory 64%
Ok





-

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.

-

The available selections for mail drop messages alerts are:

--: Disable.

BP: Short Beep.
01: 1 sec.
16: 16 sec.

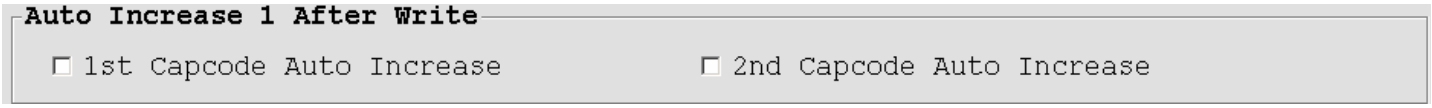
- **History**

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



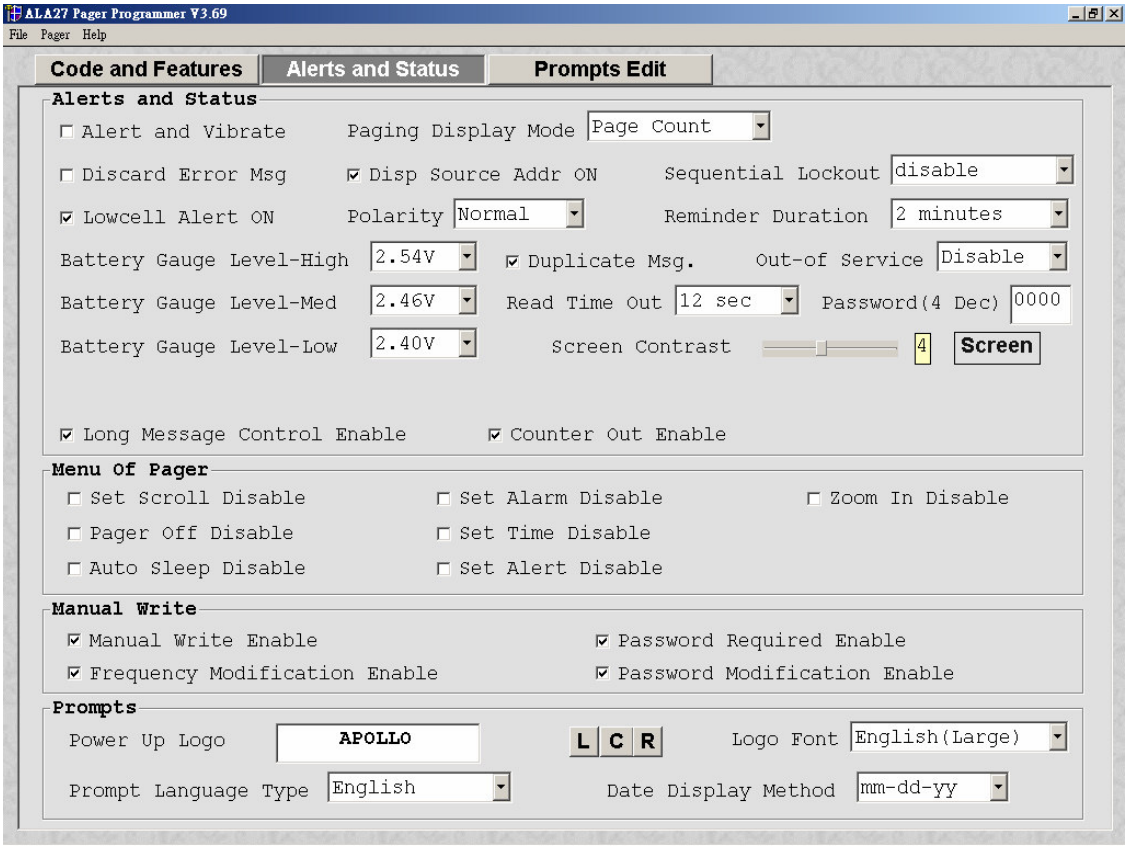
- 1st Capcode Auto Increase

1st capcode always increment by one after write.

- 2nd Capcode Auto Increase

2nd capcode always increment by one after write.

Alert and Status



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.

- Battery Gauge Level-Med 2.46V

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.

- Battery Gauge Level-Low 2.40V

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.

- Paging Display Mode Page Count
  - Page Count
  - Direct

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.

- Polarity Normal

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.

-

The current pager display changes after the selected time frame has expired. Valid selections are: 8 sec, 12 sec, 20 sec, 30 sec.

-

It selects the LCD display contract level.

-

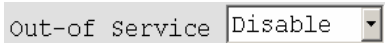
If it is selected, the message will indicate the counter number at first.

-

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.

-

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.

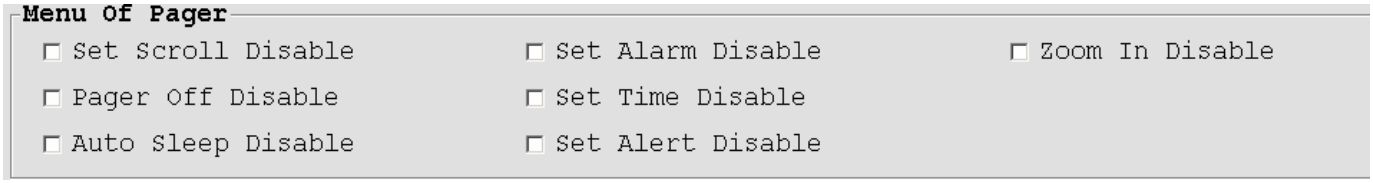
- 

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.

-

It is used for the user's manual programming.

Manu Of Pager



- 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 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

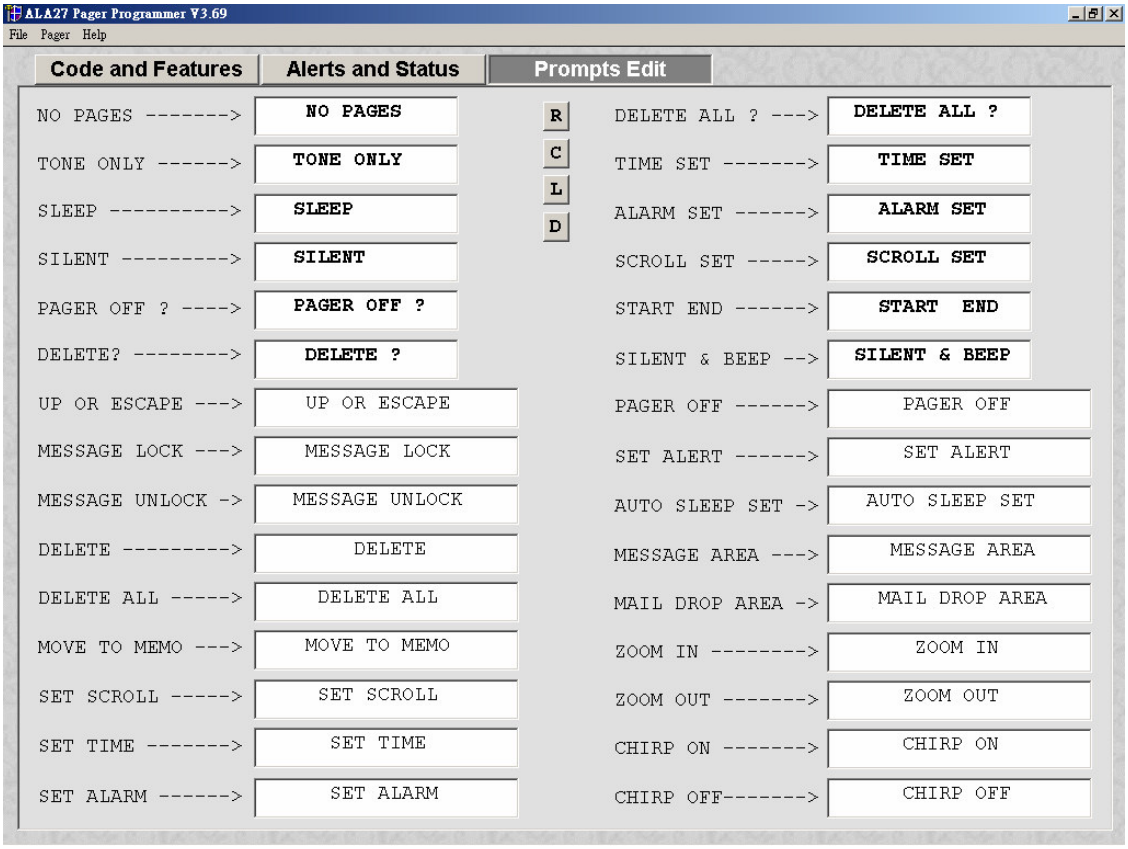
If it is selected, enters manual programming password is required.

- ☑ Password Modification Enable

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

Prompts

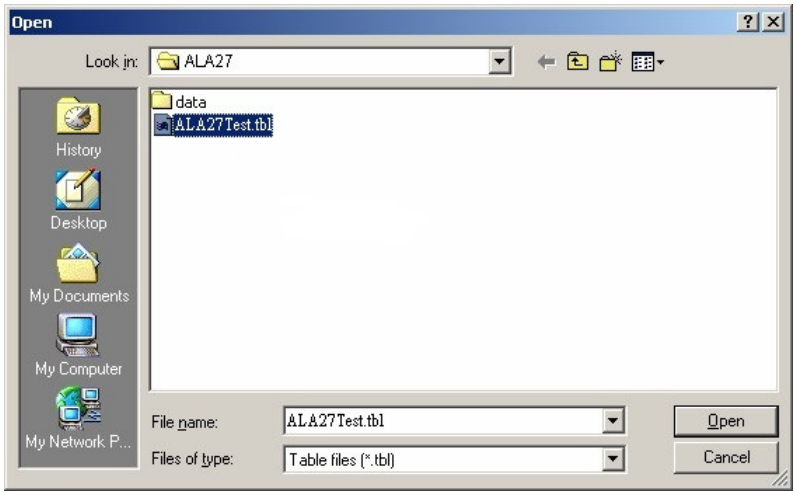
Prompts Edit



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

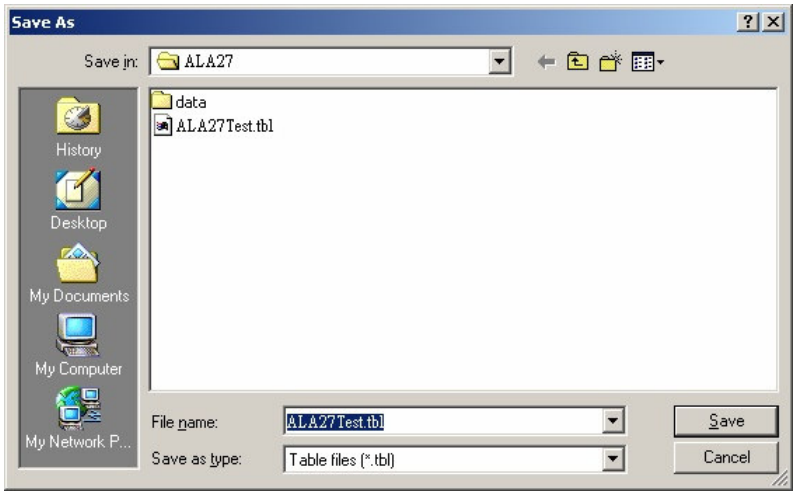
File | Open (Ctrl + O)

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.

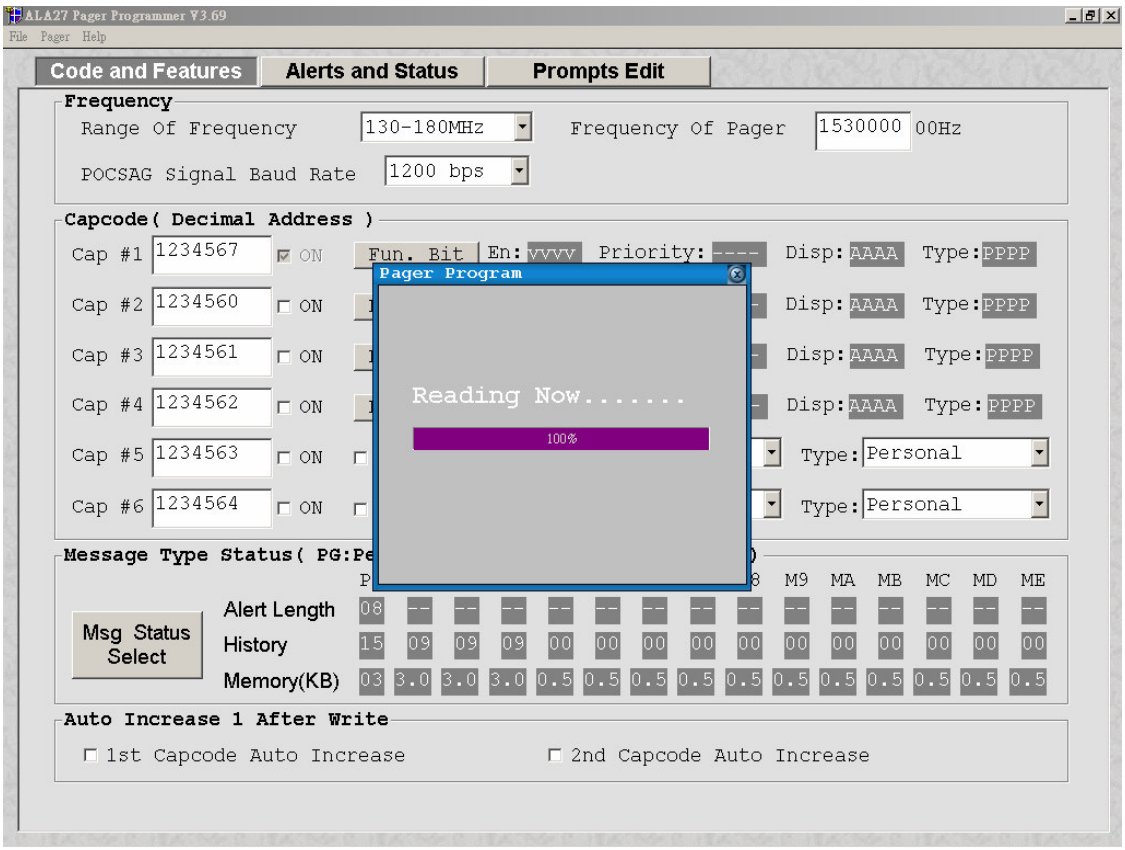


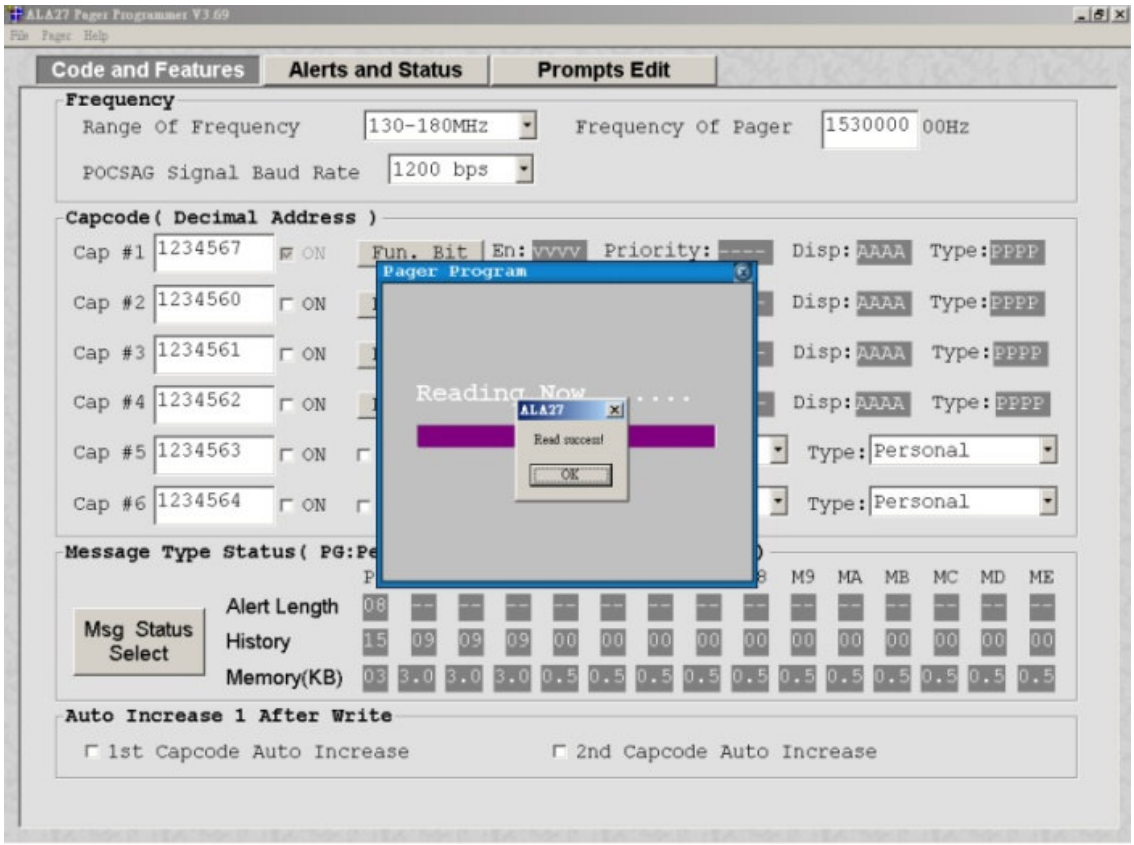
File | Exit (Ctrl + E)

Exit the programmer software.

Pager | Read (F3)

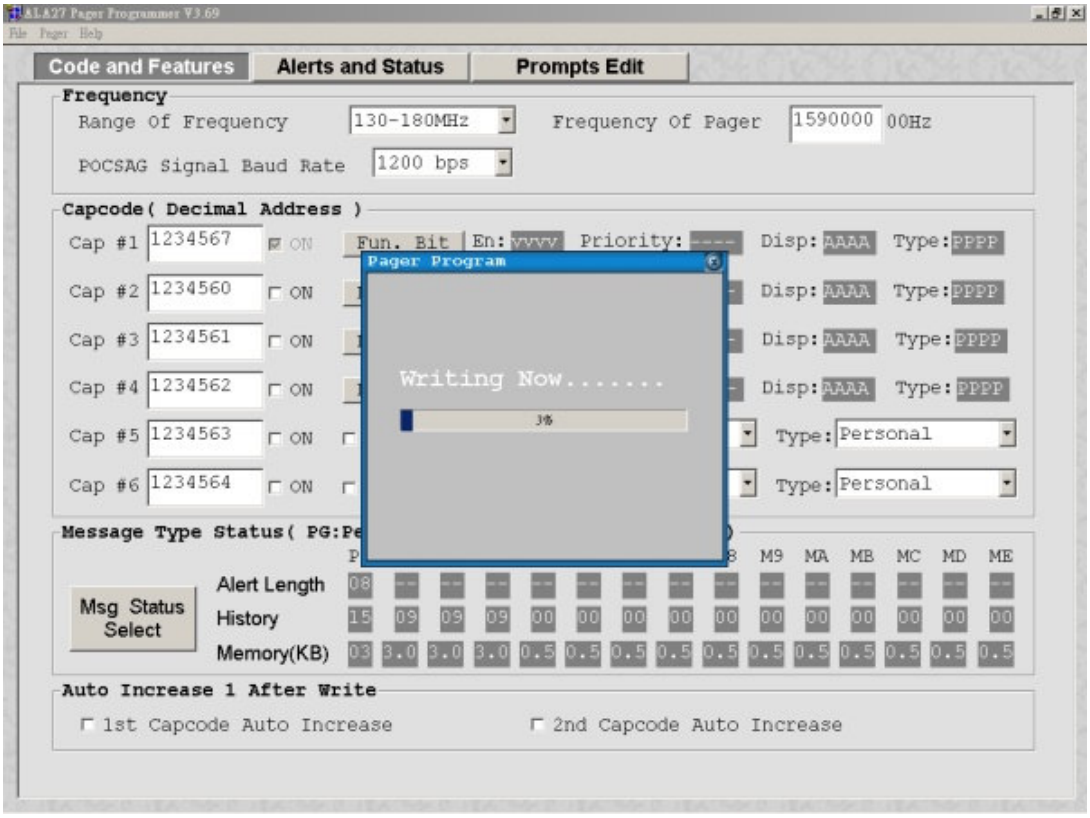
Click "Read" or press "F3" to read code-plug data from a ALA27. The status window shows reading process, when it's done, you will see a message window of 『Read success』 on the screen.

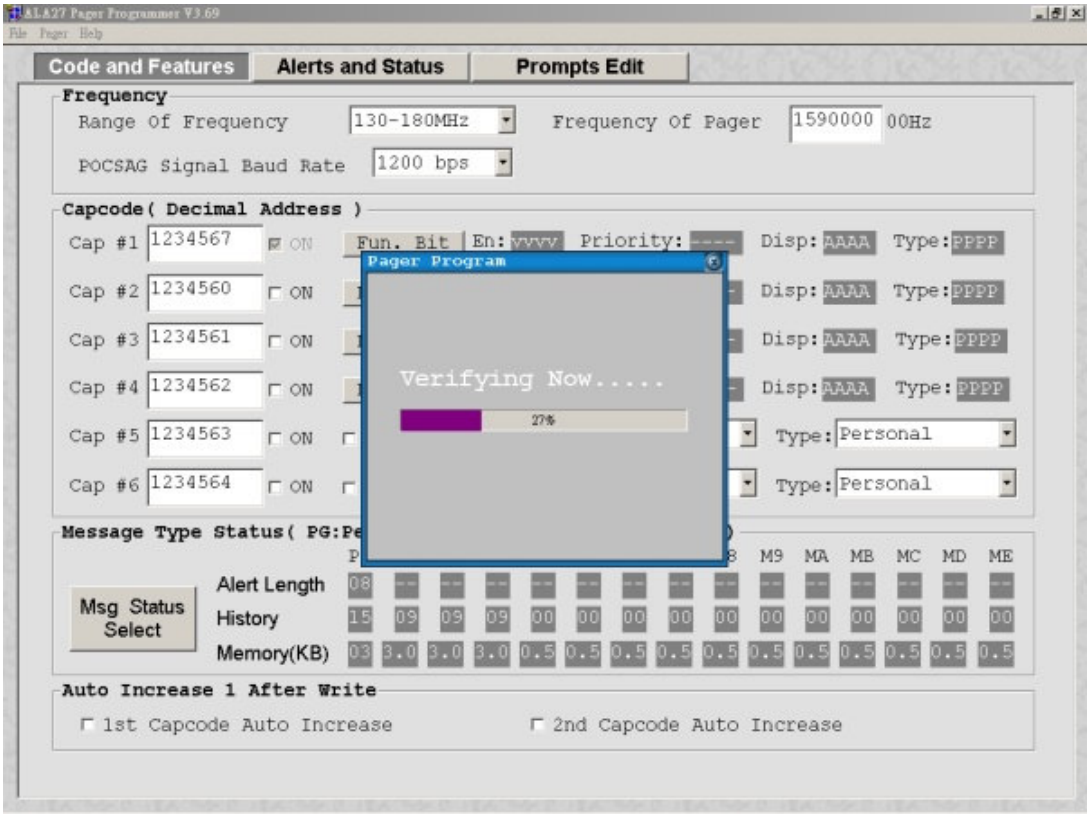

ALA27 Pager Programmer V3.69
File Pager Help
Code and Features
Alerts and Status
Prompts Edit
Frequency
Range Of Frequency
130-180MHz
Frequency Of Pager
1530000
00Hz
POCSAG Signal Baud Rate
1200 bps
Capcode(Decimal Address)
Cap #1 1234567 ON
Cap #2 1234560 ON
Cap #3 1234561 ON
Cap #4 1234562 ON
Cap #5 1234563 ON
Cap #6 1234564 ON
Fun. Bit
En: vvvv
Priority: ----
Disp: AAAA
Type: PPPP
Type: Personal
Pager Program
Reading Now.....
100%
Message Type Status(PG:Pe
Msg Status Select
Alert Length
History
Memory(KB)
Auto Increase 1 After Write
1st Capcode Auto Increase
2nd Capcode Auto Increase

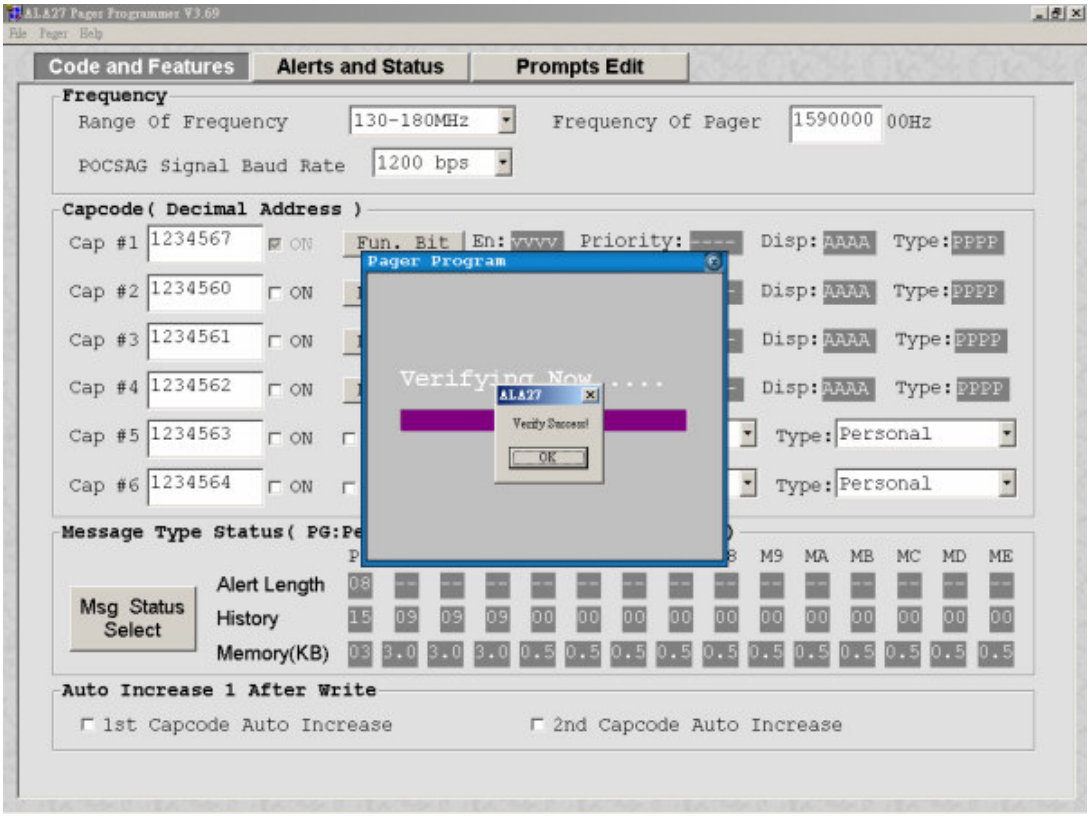

ALA27 Pager Programmer V3.69
Code and Features
Alerts and Status
Prompts Edit
Frequency
Range Of Frequency
130-180MHz
Frequency Of Pager
1530000
00Hz
POCSAG Signal Baud Rate
1200 bps
Capcode(Decimal Address)
Cap #1 1234567 ON
Cap #2 1234560 ON
Cap #3 1234561 ON
Cap #4 1234562 ON
Cap #5 1234563 ON
Cap #6 1234564 ON
Pager Program
Reading Now.....
ALA27
Read success!
OK
Msg Status Select
Alert Length
History
Memory(KB)
Auto Increase 1 After Write
1st Capcode Auto Increase
2nd Capcode Auto Increase

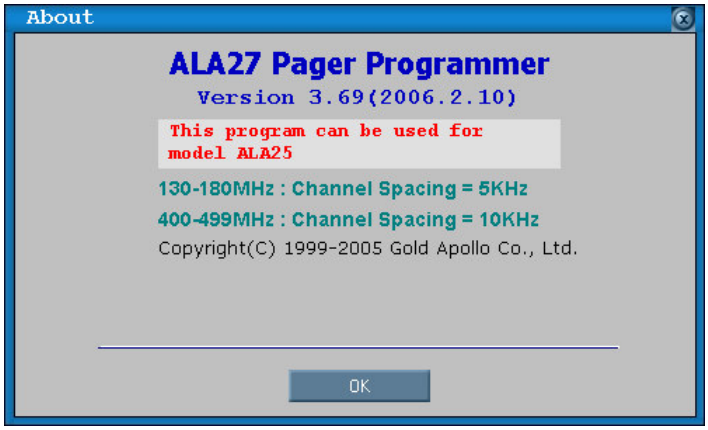
Pager | Write (F4)

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.




Code and Features
Alerts and Status
Prompts Edit
Frequency
Range Of Frequency
130-180MHz
Frequency Of Pager
1590000
00Hz
POCSAG Signal Baud Rate
1200 bps
Capcode (Decimal Address)
Cap #1 1234567
Cap #2 1234560
Cap #3 1234561
Cap #4 1234562
Cap #5 1234563
Cap #6 1234564
ON
Fun. Bit
En: vvvv
Priority: ----
Disp: AAAA
Type: PPPP
Type: Personal
Pager Program
Verifying Now.....
27%
Message Type Status (PG:Pe
Msg Status Select
Alert Length
History
Memory(KB)
Auto Increase 1 After Write
1st Capcode Auto Increase
2nd Capcode Auto Increase


Code and Features
Alerts and Status
Prompts Edit
Frequency
Range Of Frequency
130-180MHz
Frequency Of Pager
1590000
00Hz
POCSAG Signal Baud Rate
1200 bps
Capcode (Decimal Address)
Cap #1 1234567
Cap #2 1234560
Cap #3 1234561
Cap #4 1234562
Cap #5 1234563
Cap #6 1234564
Pager Program
ALA27
Verify Success!
OK
Type: Personal
Message Type Status (PG:Pe
Msg Status Select
Alert Length
History
Memory(KB)
Auto Increase 1 After Write
1st Capcode Auto Increase
2nd Capcode Auto Increase

About

About the ALA27 Pager Programmer software information.