



Gold Apollo Co., Ltd.

Voice Pager

MODEL : VP220



PAGER PROGRAMMING GUIDE

Contents

| | |
|---|----------|
| GETTING STARTED | 1 |
| EQUIPMENT REQUIRED..... | 1 |
| PROGRAMMING INTERFACE | 1 |
| INSTALLING PROGRAMMER SOFTWARE..... | 2 |
| INSTALLATION | 2 |
| RUNNING..... | 6 |
| CONNECTING PROGRAMMER TO VP220 | 7 |
| VP220 PROGRAMMING | 8 |
| INTRODUCTION..... | 8 |
| STARTING THE PROGRAMMER | 8 |
| MAIN MENU | 9 |
| <i>Menu bar</i> | 9 |
| <i>Serial Setting</i> | 10 |
| <i>Serial No</i> | 10 |
| <i>SYNC Time</i> | 11 |
| <i>Tone System</i> | 11 |
| <i>Profiles</i> | 12 |
| <i>Channel</i> | 16 |
| <i>Status Setting</i> | 19 |
| <i>Menu & Patterns</i> | 23 |

Getting Started

The VP220 Pager Programming Software provides the flexibility to program VP220 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:

- A personal computer (PC), or compatible
- Windows 2000 or above operating system (XP or Vista Recommended)
- 128 MB of RAM
- An USB output port

Programming Interface

The Programming interface kit, shown in following Figure, supports VP220 programming. Items included with the interface kit consist of the following:

- Programming software
- VP220 Programmer
- USB Cable - Type A to B



VP220 Programmer



**USB Cable - Type
A to B**

Installing Programmer Software

Installation

Install the programmer software into a PC as follows:

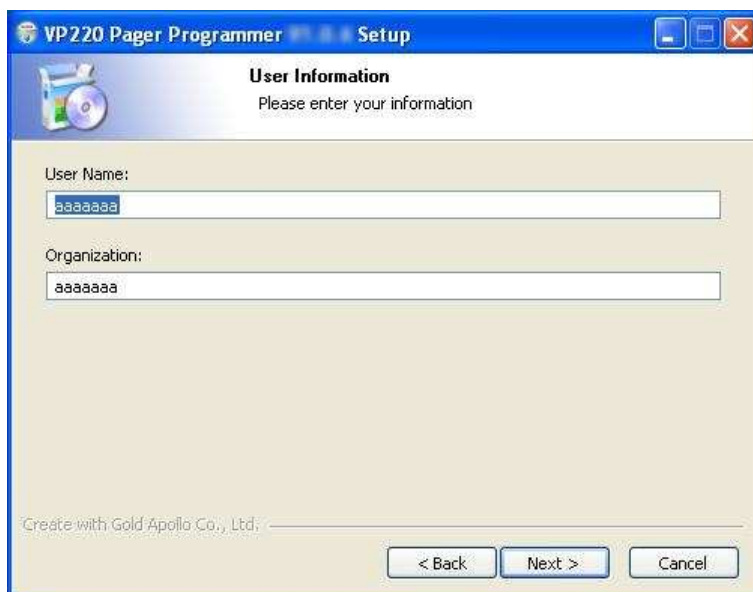
1. Uncompress the VP220_Setup.zip and save them in a temporary directory.
2. Double click the setup.exe file. Click on "Y".



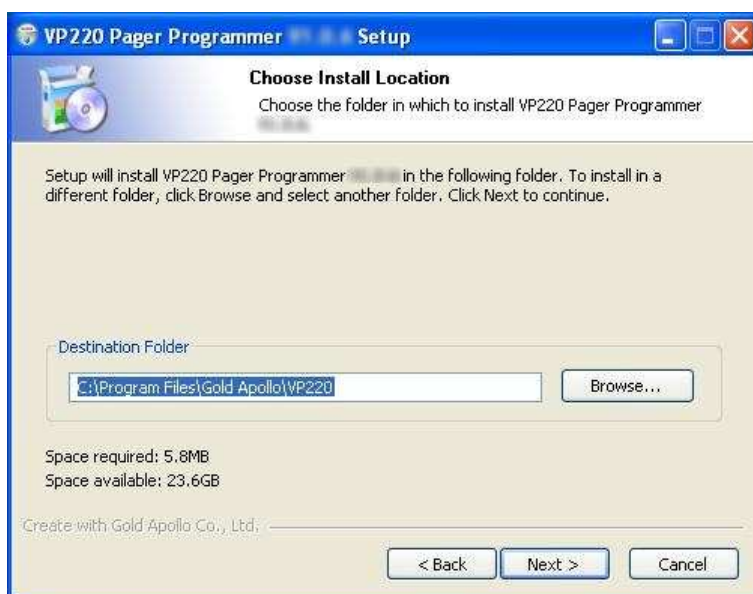
3. Click "Next" on the Welcome screen.



4. Enter your user information and click "Next". (Note: you must enter at least a single character "into the company field)

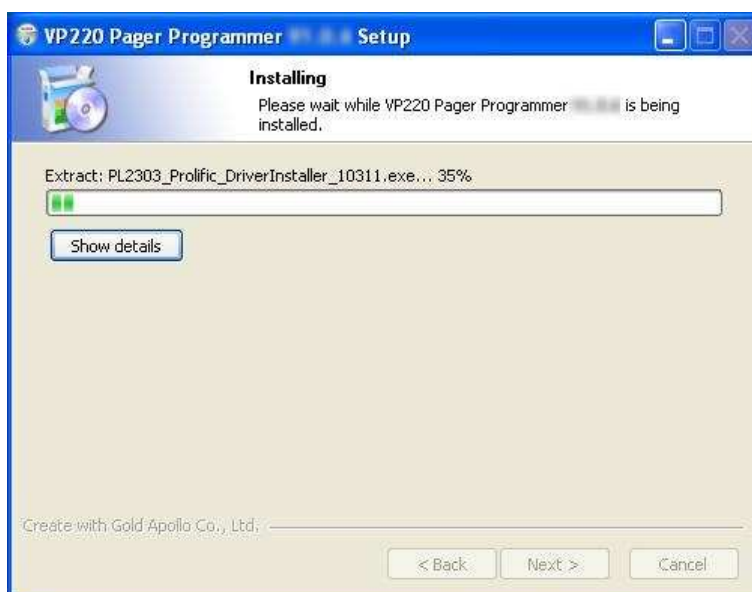
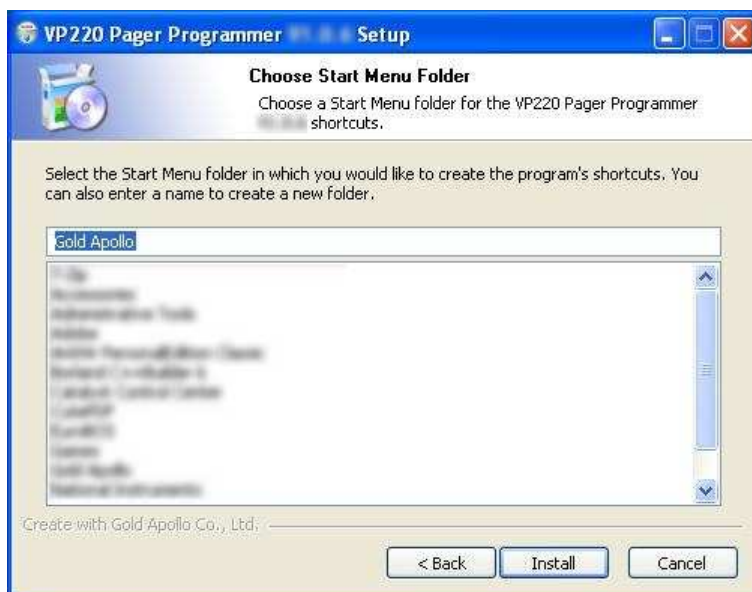


5. Choose where the program should be installed and click "Next".



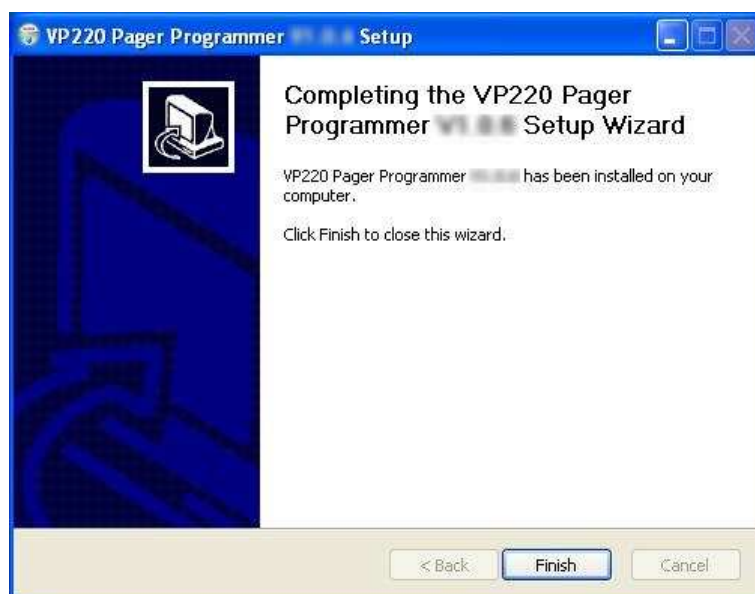
Installing Programmer Software

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



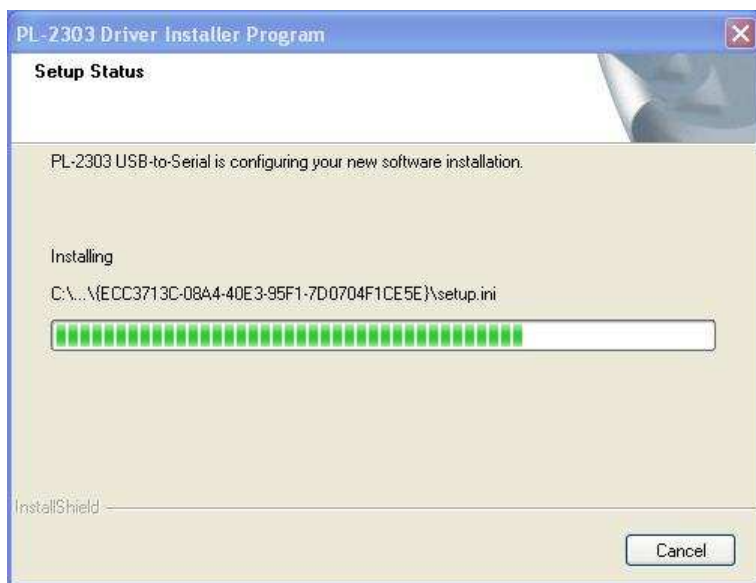
Installing Programmer Software

7. If you had installed USB driver then click "Finish" on the Setup Complete screen and VP220 Pager Programmer has been installed on your computer.



8. If you did not install USB driver then click "OK" to install USB driver.





9. Please reboot your computer after USB driver and programming software installed.



Running

You now have the program installed. To run it from the Start menu/ Programs/ Gold Apollo /VP220 Pager Programmer.

Connecting Programmer to VP220

Refer to Figure then connect the programmer kit as follows:

1. At the rear of the PC, connect the USB cable Type A Male to the USB port.
 2. Plug the USB cable Type B Male into USB connector of the VP220 programmer.
- Hardware installation is complete.



Figure Programmer Hardware Connections

VP220 Programming

Introduction

The following describes the procedures for using the VP220 programmer to accomplish:

1. Establish a computer hardware configuration.
2. Make sure VP220 has fully charged battery.

Starting the Programmer

1. The application can be launched from Start → Programs → Gold Apollo → VP220 Pager Programmer. The following window appears:



2. 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:



3. Now, the system examines that if the VP220 programmer is well installed. If any questions, the following window appears:



4. The system shuts off automatically, please re-check the VP220 programmer and COM port are well installed or not then, re-execute the system. If the connection with

programmer is OK, the system enters the Main Menu.

Main Menu

VP220

File Pager Advance About

Serial Setting
COM Port: COM1
Serial No.: S/N:
SYNC TIME

Tone System
☒ Standard
 ☐ User
 ☐ Plecton

Profiles | Channel F1 | Channel F2 | Status Setting | Menu & Alert Patterns

Initial Profile
☒ Profile 1
 ☐ Profile 2
 ☐ Profile 3
 ☐ Profile 4

Profile 1 | Profile 2 | Profile 3 | Profile 4

Configurations
 Profile Name: Profile 1 ☒ ON
Channel F1
 Frequency: 1520000 00Hz Channel Space: Auto Bandwidth: WB S.Q.L.: 5
Channel F2
 Frequency: 1620000 00Hz Channel Space: Auto Bandwidth: WB S.Q.L.: 5

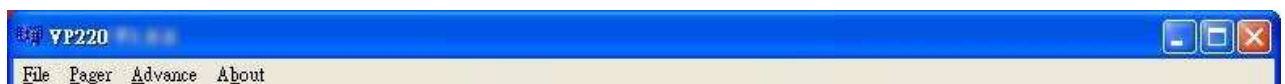
Function Switches
SW-A
 Alert Type: Vibrate Mode: Priority Scan F1 ☐ Push To Listen
SW-B
 Alert Type: Beep Mode: Normal Scan ☐ Push To Listen
SW-C
 Alert Type: Beep Mode: Selective Call F1 ☐ Push To Listen
SW-D
 Alert Type: Beep Mode: Selective Call F2 ☐ Push To Listen

Reset Control: Time-Out RESET [Help](#) Delay Time: 8.0 sec

Ready

Menu bar

In the menu bar, there are main menus with submenus like those conventionally used in Windows applications.



- **File | Open**

Open a VP220 code-plug file. The file has the extension “.tbl”.

- **File | Save**

Save the current code-plug data to a file. If the code-plug data file has already been saved, VP220 suggests the same filename to you click on Save, the file is overwritten.

- **File | Save As**

Save the current code-plug data to a file with different filename. If you saved the code-plug data file previously and don't need to change the file name, you can use the Save command instead.

- **Pager | Write**

Write the current code-plug data to the pager.

- **Pager | Read**

Read code-plug data from the pager.

- **Pager | Verify**

Verify the pager data.

- **Advance**

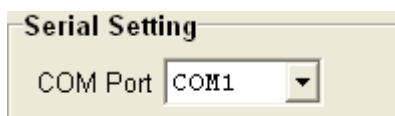
Set important parameters which requires a password to enter.

- **About**

Information about the VP220 pager programming version .

Serial Setting

Select the communication port which is connected to your programmer kit. The system will search the available COM port in the computer and define the COM port that has already connected with VP220 programmer as pre-programmed.



Serial No

The serial number of the VP220. After the scanner reading the serial number, it can only be for use of writing into EEPROM.



SYNC Time

Synchronize the VP220 with the PC.

Tone System

Select the type of system that the address tones will be selected for. If a system other than USER is selected, then tones pertaining to the selected system are the only tones available for programming.



- **Standard Mode**

If Standard Mode is selected, all call tones must match the tone listed in this table. If a tone frequency other than the tone frequency listed in this table is entered in the call tone field, the VP220 Pager Programmer will round this frequency to the nearest frequency in the table.

- **User Mode**

If User Mode is selected, then any address tone frequency can be entered if proper tone spacing is maintained and between 280.0Hz and 3500.0Hz. The tone spacing is determined by the bandwidth of decoder chip. $\text{Spacing} = (\text{bandwidth} * 2 + 0.001)$. The default bandwidth is 0.7%.

- **Plectron**

If Plectron Mode is selected, all call tones must match the tone listed in this table. If a tone frequency other than the tone frequency listed in this table is entered in the call tone field, the VP220 Pager Programmer will round this frequency to the nearest frequency in the table.

Profiles

| Profiles | Channel F1 | Channel F2 | Status Setting | Menu & Alert Patterns |
|---|------------|------------|----------------|-----------------------|
| Initial Profile <input checked="" type="radio"/> Profile 1 <input type="radio"/> Profile 2 <input type="radio"/> Profile 3 <input type="radio"/> Profile 4 | | | | |
| Profile 1 Profile 2 Profile 3 Profile 4 | | | | |
| Configurations Profile Name <input type="text" value="Profile 1"/> <input checked="" type="checkbox"/> ON | | | | |
| Channel F1 Frequency <input type="text" value="1520000"/> 00Hz Channel Space <input type="text" value="Auto"/> Bandwidth <input type="text" value="WB"/> S.Q.L. <input type="text" value="5"/> | | | | |
| Channel F2 Frequency <input type="text" value="1620000"/> 00Hz Channel Space <input type="text" value="Auto"/> Bandwidth <input type="text" value="WB"/> S.Q.L. <input type="text" value="5"/> | | | | |
| Function Switches | | | | |
| SW-A Alert Type <input type="text" value="Vibrate"/> Mode <input type="text" value="Priority Scan F1"/> <input type="checkbox"/> Push To Listen | | | | |
| SW-B Alert Type <input type="text" value="Beep"/> Mode <input type="text" value="Normal Scan"/> <input type="checkbox"/> Push To Listen | | | | |
| SW-C Alert Type <input type="text" value="Beep"/> Mode <input type="text" value="Selective Call F1"/> <input type="checkbox"/> Push To Listen | | | | |
| SW-D Alert Type <input type="text" value="Beep"/> Mode <input type="text" value="Selective Call F2"/> <input type="checkbox"/> Push To Listen | | | | |
| Reset Control <input type="text" value="Time-Out RESET"/> Help Delay Time <input type="text" value="8.0"/> sec | | | | |

➤ Initial Profile

Choose the following VP220 settings when the pager is turning-on:

- Profile Name
- Frequency
- Alert Type

| Initial Profile |
|--|
| <input checked="" type="radio"/> Profile 1 <input type="radio"/> Profile 2 <input type="radio"/> Profile 3 <input type="radio"/> Profile 4 |

➤ **Profile 1**

Profile 1 | Profile 2 | Profile 3 | Profile 4

Configurations

Profile Name: Profile 1 ☒ ON

Channel F1

Frequency: 1520000 00Hz Channel Space: Auto Bandwidth: WB S.Q.L.: 5

Channel F2

Frequency: 1620000 00Hz Channel Space: Auto Bandwidth: WB S.Q.L.: 5

Function Switches

SW-A

Alert Type: Vibrate Mode: Priority Scan F1 ☐ Push To Listen

SW-B

Alert Type: Beep Mode: Normal Scan ☐ Push To Listen

SW-C

Alert Type: Beep Mode: Selective Call F1 ☐ Push To Listen

SW-D

Alert Type: Beep Mode: Selective Call F2 ☐ Push To Listen

Reset Control: Time-Out RESET [Help](#) Delay Time: 8.0 sec

■ **Configurations**● **Profile Name**

Define the "Profile Name" under manual programming mode (1-12 characters).

☑ **ON**

Only the Profiles being selected "on" will be available under the manual programming mode.

● **Channel F1**

Channel F1

Frequency: 1520000 00Hz Channel Space: Auto Bandwidth: WB S.Q.L.: 5

◆ **Frequency**

Enter the receiver frequency for under each profile.

◆ **Channel Space**

Select one of the channel spacing. The option has 12.5K, 6.25K, 2.5K or Auto.

- ◆ **Bandwidth**

If bandwidth selection is “WB”, the channel spacing is set to 25 KHz. If selection is “NB”, the channel spacing is set to 12.5 KHz. Channel F1 and Channel F2 need to set “WB” or “NB” separate.

- ◆ **S.Q.L.**

VP220 has five-stage programmable Squelch level through squelch level control, VP220 will access into listening mode if it recognizes the different of signal strength for the channels that monitored, such as: Level 1 requires strong signal power (as opposed to background noise) will enter the listening mode. Level 5 requires weak signal power (as opposed to background noise) will enter listening mode.





- **Function Switches**

Determines the Function Switches. Here is an example for SW-A.

| Function Switches | | |
|---|---|---|
| SW-A | | |
| Alert Type <input type="text" value="Vibrate"/> | Mode <input type="text" value="Priority Scan F1"/> | <input type="checkbox"/> Push To Listen |
| SW-B | | |
| Alert Type <input type="text" value="Beep"/> | Mode <input type="text" value="Normal Scan"/> | <input type="checkbox"/> Push To Listen |
| SW-C | | |
| Alert Type <input type="text" value="Beep"/> | Mode <input type="text" value="Selective Call F1"/> | <input type="checkbox"/> Push To Listen |
| SW-D | | |
| Alert Type <input type="text" value="Beep"/> | Mode <input type="text" value="Selective Call F2"/> | <input type="checkbox"/> Push To Listen |

- ◆ **Alert Type**

The VP220 can alert in one of the following four ways:

1. Beep ( will show on the display)
2. Vibrate ( will show on the display)
3. Vibrate & Beep ( +  will show on the display)

◆ Mode

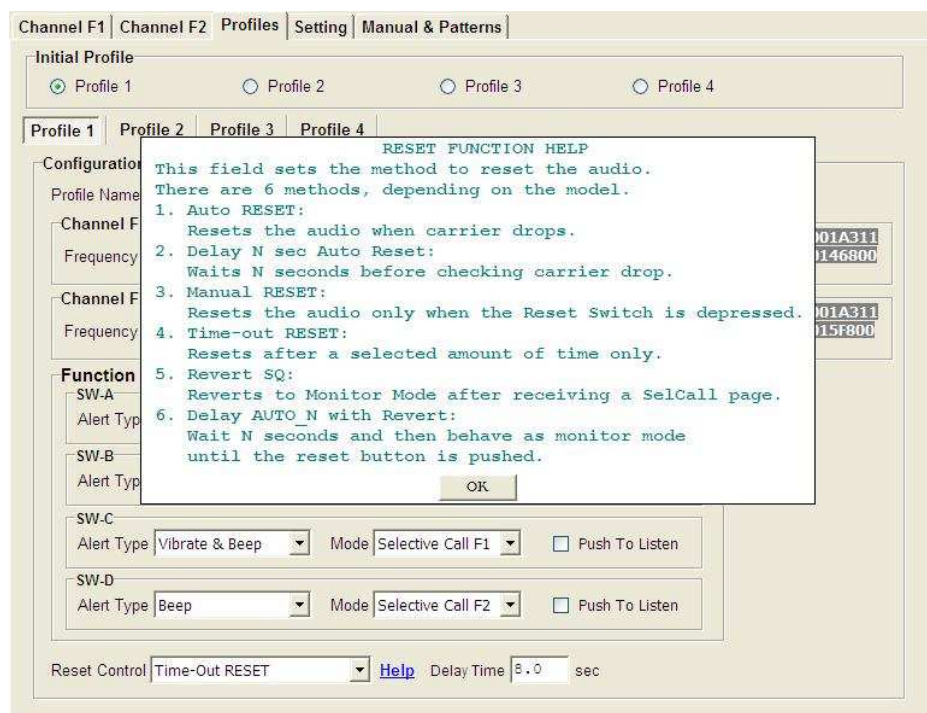
Select one of the pager operation modes. If a pager is set to a single channel pager, only modes regarding F1 are available. The options are Monitor F1, Monitor F2, Selective Call F1, Selective Call F2, Normal Scan, Priority Scan F1 and Silent Scan.

◆ Push To Listen

Enable the PTL option. At this time, the Alert Type is changed to Vibrate automatically and disabled the user selection for Alert Type. This option is only available in selective call and silent scan modes.

● Reset Control

Determines how a select call pager squelches a message after receiving a page. The option has Auto Reset, Delay N sec Auto Rest, Manual RESET, Time-Out RESET, Revert SQ, Delay AUTO N with Revert. Click [Help](#) to displays "RESET FUNCTION HELP".



Channel

The model of VP220 is supported with two channels. Here is an example for channel F1.

| Profiles | | Channel F1 | Channel F2 | Status Setting | Menu & Alert Patterns | | | | | | | | | | | |
|--|------------|------------|------------|-------------------------------------|--------------------------|--------------------------|--------------------------|-----------------|---------------|------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Call No. | Mark | Tone 1 | Tone 2 | P1 | P2 | P3 | P4 | Alert Tone Type | Alert Pattern | Alert Time | Pr. Alert | Vir.Ch. | SW-A | SW-B | SW-C | SW-D |
| <input checked="" type="checkbox"/> #1 | Addr_1 F1 | 1285.8 | 879.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> #2 | Addr_2 F1 | 1285.8 | 879.0 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> #3 | Addr_3 F1 | 1285.8 | 879.0 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> #4 | Addr_4 F1 | 1285.8 | 879.0 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> #5 | Addr_5 F1 | 1285.8 | 879.0 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> #6 | Addr_6 F1 | 1285.8 | 879.0 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> #7 | Addr_7 F1 | 1285.8 | 879.0 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> #8 | Addr_8 F1 | 1285.8 | 879.0 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Group #1 | Group_1 F1 | 1285.8 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Group #2 | Group_2 F1 | 1285.8 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Group #3 | Group_3 F1 | 1285.8 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Group #4 | Group_4 F1 | 1285.8 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Standard | 1 | STD | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☒ **Call No.**

Address actively programmed or not actively programmed.

● **Mark**

Define the marking of the addresses in the display (1-12 characters)..

● Tone 1 / Tone2

Make tone field entries. Entries into the tone fields are subject to previous selections of Tone System. If tone system selection is "Standard Mode" or "Plectron Mode", after selecting the desired Call/Tone field and then pressing (F9), the tone tables may be displayed.

[F9] Open Tone Table

| Call No. | Mark | Tone 1 | Tone 2 | P1 |
|--|--------------|--------|--------|-------------------------------------|
| <input checked="" type="checkbox"/> #1 | Addr-000 F1. | | 871.0 | <input checked="" type="checkbox"/> |

Tone Table

| | Mot 1 | Mot 2 | Mot 3 | Mot 4 | Mot 5 | Mot 6 | Mot A | Mot B | Mot Z | Mot 10 | Mot 11 | GE A' | GE B' | GE C' |
|---|-------|-------|--------|-------|-------|--------|-------|-------|-------|--------|--------|-------|--------|--------|
| 0 | 330.5 | 569.1 | 1092.4 | 321.7 | 553.9 | 1122.5 | 358.9 | 371.5 | 346.7 | 1472.9 | 1930.2 | 682.5 | 652.5 | 667.5 |
| 1 | 349.0 | 600.9 | 288.5 | 339.6 | 584.8 | 1153.4 | 398.1 | 412.1 | 384.6 | 1513.5 | 1989.0 | 592.5 | 607.5 | 712.5 |
| 2 | 368.5 | 634.5 | 296.5 | 358.6 | 617.4 | 1185.2 | 441.6 | 457.1 | 426.6 | 1555.2 | 2043.8 | 757.5 | 787.5 | 772.5 |
| 3 | 389.0 | 669.9 | 304.7 | 378.6 | 651.9 | 1217.8 | 489.8 | 507.0 | 473.2 | 1598.0 | 2094.5 | 802.5 | 832.5 | 817.5 |
| 4 | 410.8 | 707.3 | 313.0 | 399.8 | 688.3 | 1251.4 | 543.3 | 562.3 | 524.8 | 1642.0 | 2155.6 | 847.5 | 877.5 | 862.5 |
| 5 | 433.7 | 746.8 | 323.7 | 422.1 | 726.8 | 1285.8 | 602.6 | 623.7 | 582.1 | 1687.2 | 2212.2 | 892.5 | 922.5 | 907.5 |
| 6 | 457.9 | 788.5 | 333.9 | 445.7 | 767.4 | 1321.2 | 668.3 | 691.8 | 645.7 | 1733.7 | 2271.7 | 937.5 | 967.5 | 952.5 |
| 7 | 483.5 | 832.5 | 344.6 | 470.5 | 810.2 | 1357.6 | 741.3 | 767.4 | 716.1 | 1781.5 | 2334.6 | 947.5 | 977.5 | 962.5 |
| 8 | 510.5 | 879.0 | 355.9 | 496.8 | 855.5 | 1395.0 | 822.2 | 851.1 | 794.3 | 1830.5 | 2401.0 | 972.5 | 997.5 | 982.5 |
| 9 | 539.0 | 928.1 | 367.5 | 524.6 | 903.2 | 1433.4 | 912.0 | 944.1 | 881.0 | 1881.0 | 2468.2 | 997.5 | 1017.5 | 1002.5 |

Enter Exit

Standard Tone Table

Plectron Tone Table

Plectron Format Tones

| | | | | | | | | | |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 282.2 | 366.0 | 474.8 | 615.8 | 799.0 | 1036.0 | 1344.0 | 1743.0 | 2260.0 | 2932.0 |
| 294.7 | 382.3 | 495.8 | 643.0 | 834.0 | 1082.0 | 1403.0 | 1820.0 | 2361.0 | 3062.0 |
| 307.8 | 399.2 | 517.8 | 672.0 | 871.0 | 1130.0 | 1465.0 | 1901.0 | 2465.0 | 3197.0 |
| 321.4 | 416.9 | 540.7 | 701.0 | 910.0 | 1180.0 | 1530.0 | 1985.0 | 2575.0 | 3339.0 |
| 335.6 | 435.3 | 564.7 | 732.0 | 950.0 | 1232.0 | 1598.0 | 2073.0 | 2688.0 | 3487.0 |
| 350.5 | 454.6 | 589.7 | 765.0 | 992.0 | 1287.0 | 1669.0 | 2164.0 | 2807.0 | |

Enter Exit

Plectron Tone Table

☒ **P1**

Change the active Profile.

- **Alert Tone Type**

Select one of the Alert Tone type. The options has Standard, Continuous, User defines.

- **Alert Pattern**

Define the Alert Pattern numbers from #1 to #8 (under the Manual & Patterns Setting)

- **Alert Time**

Duration of the tone signaling – standard is 5 seconds. It is possible to have 1 to 30 repetitions of the specified tone pattern. The duration of a tone pattern (consisting of 8 tones or tracing) is 1 second.

☒ **Pr. Alert**

If select this check box, the vibrate page alerts are replaced by tone alert for call 1 only.

☒ **Vir.ch.**

Define that the pager vibrator in the charger (Charger) actively. (standard).

- **SW-A**

Select this to enable the call tones individually. If this is not selected, all calls tones will enable. Please note that the call tones will be enabled subject to the selection of the function switch.

Status Setting

| Profiles | Channel F1 | Channel F2 | Status Setting | Menu & Alert Patterns |
|--|------------|---|----------------|--|
| Setting Status <div> <input type="checkbox"/> Disable All Vibrator <input type="checkbox"/> Enable Priority Scan With Monitor <input type="checkbox"/> Disable Power Save </div> <div> <input type="checkbox"/> Disable Vibrator In Charger <input type="checkbox"/> Priority Alert MAX. Volume <small>Notice : Only usable when Priority Alert is enable.</small> <input type="checkbox"/> FIX Alert </div> <div> <input checked="" type="checkbox"/> Enable Function Announcement <input type="checkbox"/> Enable Auto Monitor <input type="checkbox"/> One Channel </div> <div> <input checked="" type="checkbox"/> Enable Function With Vibration/Alert <input type="checkbox"/> Privacy Enable </div> | | | | |
| Record <input checked="" type="checkbox"/> Stored Voice Record Section 16 sections (Max. 30 s) | | LCD Backlight Setting Backlight Auto-Off 10 sec (255:endless) | | Call Remind Tone Repetition Time 120 sec |
| Clock <input checked="" type="checkbox"/> SYNC DATE & TIME WITH PC Clock To Display 12H | | Carrier OFF Delay Carrier OFF Delay 10 x 100 ms | | Priority Scan Period Time 1 Second |
| Power On Logo Line 1 APOLLO Line 2 VP-220 <input checked="" type="checkbox"/> Show Version | | Screen Contrast Contrast 5 | | |

➤ Status

| | | |
|---|--|---|
| <input type="checkbox"/> Disable All Vibrator <input type="checkbox"/> Disable Vibrator In Charger <input checked="" type="checkbox"/> Enable Function Announcement <input checked="" type="checkbox"/> Enable Function With Vibration/Alert | <input type="checkbox"/> Enable Priority Scan With Monitor <input type="checkbox"/> Priority Alert MAX. Volume <small>Notice : Only usable when Priority Alert is enable.</small> <input type="checkbox"/> Enable Auto Monitor <input type="checkbox"/> Privacy Enable | <input type="checkbox"/> Disable Power Save <input type="checkbox"/> FIX Alert <input type="checkbox"/> One Channel |
|---|--|---|

☒ Disable All Vibrator

If select this check box, the vibrator is disabled.

☒ Disable Vibrator In Charger

Define that the pager alarm in the charger (Charger) actively.

☒ Enable Function Announcement

Enable or Disable the voice prompt when a pager the function switch is turned. This feature is available with the feature of "Save voice" is enabled.

☒ **Enable Function With Vibration/Alert**

Enable or Disable the vibration or alert prompt when a pager is powered on or the function switch is turned.

☒ **Enable Priority Scan With Monitor**

Enable the monitoring function when entering the priority scan mode.

☒ **Priority Alert MAX. Volume**

If it is selected, the tone alert is at maximum volume regardless of the position of the control.

☒ **Enable Auto Monitor**

In the Auto Monitor mode, the pager will monitor the channel and anything being transmitted will be picked up by the pager. When the transmission ends, the pager will automatically turn off the audio. To enter the Auto Monitor mode, press and hold the reset key for 3 seconds. To enter the Audio Lock mode, press and hold the reset key for 6 seconds.

☒ **Privacy Enable**

If select this check box, it can prevent the reset button from being used to monitor the channel.

☒ **Disable Power Save**

If select this check box, the Power Save is disable.

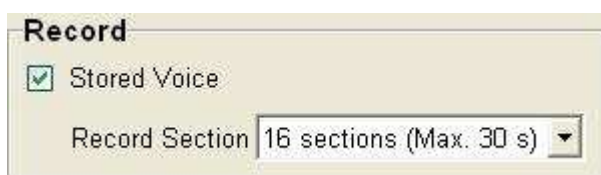
☒ **FIX Alert**

If select this check box, the pager operates in the "fixed alert" mode. This means the tone alert is at maximum volume regardless of the position of the volume control. If it isn't selected, then the alert tone and voice audio level are adjustable using the volume control.

☒ **One Channel**

Select this to disable all the functions in the "Channel F2", which includes monitor F2, Selective call F2, Normal scan, Priority Scan F1, Silent scan.

➤ **Record**



Record

☒ Stored Voice

Record Section 16 sections (Max. 30 s) ▼

☒ **Save voice**

Enable or disable stored voice on models with this option.

- **Record Section**

Select the maximum length (in seconds) of a message. This entry is available only on stored voice pagers. This option has 4 sections (120 seconds), 8 sections (60 seconds), 12 sections (40 seconds), 16 sections (30 seconds), 32 sections (15 seconds).

- **LCD Backlight Setting**



LCD Backlight Setting

Backlight Auto-Off 10 sec (255:endless)

- **Backlight Auto-Off**

Set the time that the backlight & display will be turned off after the VP220 is not being used.

- **Call Remind Tone**



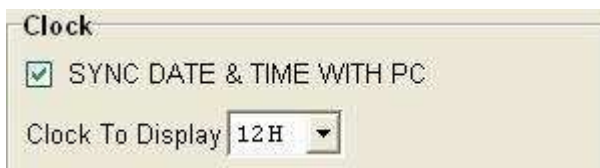
Call Remind Tone

Repetition Time 120 sec

- **Repetition Time**

Call reminder repetition time. The time can be set to between 1 and 255 sec.

- **Clock**



Clock

☒ SYNC DATE & TIME WITH PC

Clock To Display 12H

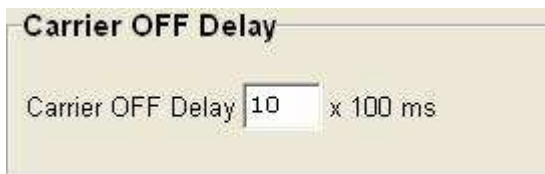
- ☒ **SYNC DATE & TIME WITH RTC**

The VP220 will synchronize with the PC after be programmed successfully.

- **Clock To Display**

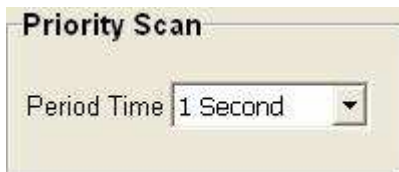
The time can be displayed in 12 hr or 24 hr.

➤ **Carrier OFF Delay**

A dialog box titled "Carrier OFF Delay" with a text input field containing "10" and a label "x 100 ms" to its right.

You can set delay time after carrier off.

➤ **Priority Scan**

A dialog box titled "Priority Scan" with a dropdown menu labeled "Period Time" showing "1 Second".

● **Period Time**

Select this for setting the time staying on F2 when it scans a signal on F2, under the Priority Scan mode. The option has 0.5 second, 1 second, or 2 second increments

➤ **Power On Logo**

A dialog box titled "Power On Logo" with two text input fields: "Line 1" containing "APOLLO" and "Line 2" containing "VP-220". To the right of the "Line 2" field is a checked checkbox labeled "Show Version".

Set the display of "Power On Logo". "Line 2" will show the firmware version if the "Show Version" is being selected.

➤ **Screen Contrast**

A dialog box titled "Screen Contrast" with a horizontal slider control labeled "Contrast" and a value of "5" at the right end.

Choose adjust the contrast level of the LCD display.

Menu & Patterns

Profiles | Channel F1 | Channel F2 | Status Setting | **Menu & Alert Patterns**

Menu Prompts

☒ Clear Read Message ☒ Set Date and Time ☐ Set Contrast ☐ Sel Profile

Prompts Edit

| | | | | |
|--------------------|-------------|--|------------------|--------------|
| CLEAR READ MESSAGE | CLR MESSAGE | | SET CONTRAST | SET CONTRAST |
| YES | YES | | SEL PROFILE | SEL PROFILE |
| NO | NO | | CLEARING MESSAGE | CLEARING MSG |
| SET DATE | SET DATE | | NO PAGES | NO PAGES |
| SET TIME | SET TIME | | PAGE | PAGE |
| | | | PAGES | PAGES |

Alert Patterns

| | Alert | LED | Vibrator |
|------------|----------|----------|----------|
| Pattern #1 | ABCDABCD | 00010001 | 00001111 |
| Pattern #2 | A-A----- | 00110011 | 00110011 |
| Pattern #3 | B-B----- | 01110111 | 00001111 |
| Pattern #4 | C-C----- | 01010101 | 00110011 |
| Pattern #5 | D-D----- | 00000001 | 00101111 |
| Pattern #6 | AABBCCDD | 00000011 | 00100011 |
| Pattern #7 | AAAABBBB | 00000111 | 00100011 |
| Pattern #8 | CCCCDDDD | 00000101 | 00100111 |

Alert Tonicity

Tonicity A Hz

Tonicity B Hz

Tonicity C Hz

Tonicity D Hz

➤ Menu Prompts

Menu Prompts

☒ Clear Read Message ☒ Set Date and Time ☐ Set Contrast ☐ Sel Profile

☒ **Clear Read Message**

If it is selected, menu of Clear Read Message Time function will be enabled.

☒ **Set Date and Time**

If it is selected, menu of Set Date and Time function will be enabled.

☒ **Set Contrast**

If it is selected, menu of LCM Contrast function will be enabled.

☒ **Sel Profile**

If it is selected, menu of Set Profile function will be enabled.

➤ Prompts Edit

To edit the name of the settings which will be shown on the VP220.

| Prompts Edit | |
|--------------------|--------------|
| CLEAR READ MESSAGE | CLR MESSAGE |
| YES | YES |
| NO | NO |
| SET DATE | SET DATE |
| SET TIME | SET TIME |
| SET CONTRAST | SET CONTRAST |
| SEL PROFILE | SEL PROFILE |
| CLEARING MESSAGE | CLEARING MSG |
| NO PAGES | NO PAGES |
| PAGE | PAGE |
| PAGES | PAGES |

➤ Alert Patterns

| Alert Patterns | | | |
|----------------|----------|----------|----------|
| | Alert | LED | Vibrator |
| Pattern #1 | ABCDABCD | 00010001 | 00001111 |
| Pattern #2 | A-A----- | 00110011 | 00110011 |
| Pattern #3 | B-B----- | 01110111 | 00001111 |
| Pattern #4 | C-C----- | 01010101 | 00110011 |
| Pattern #5 | D-D----- | 00000001 | 00101111 |
| Pattern #6 | AABBCCDD | 00000011 | 00100011 |
| Pattern #7 | AAAABBBB | 00000111 | 00100011 |
| Pattern #8 | CCCCDDDD | 00000101 | 00100111 |

- **Alert**

Enter in the tones A; B; C; D in the sequence in which you would like them to be heard in the "Alert Tonality". A minus sign "-" creates a short pause. See "Alert Tonality" for tones A; B; C; D.

- **LED**

Set the LED flashing sequence when the VP220 receives a message. The duration of a flash pattern is 1 second (consisting of 8 digits meaning 1/8 of a second). The LED flashes with "1" and dims with "0".

- **Vibrator**

Set the vibration sequence when the VP220 receives a message. The duration of a vibration pattern is 1 second (consisting of 8 digits meaning 1/8 of a second). The VP220 vibrates with "1" and stills with "0".

➤ **Alert Tonality**

To set audio frequencies from 150Hz to 6000Hz.

| Alert Tonality | | |
|----------------|-----------------------------------|----|
| Tonality A | <input type="text" value="200"/> | Hz |
| Tonality B | <input type="text" value="400"/> | Hz |
| Tonality C | <input type="text" value="900"/> | Hz |
| Tonality D | <input type="text" value="2300"/> | Hz |