VS4820
User Manual
Ver 1.001
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Introduction
The VS4820 Wireless Paging Base Station offers a cost-effective way to implement an urgent wireless communication solution for commercial applications, such as emergency mass notification, voice & data paging, 2-way intercom communication, facility-wide audio/visual alerts and SMS text notifications.

With its built-in database, the VS4820 offers users the ability to program up to 1,000 automatic or manually initiated events that can wirelessly activate a single or group of:

- Wireless PA speakers for playback of pre-programmed voice messages or live-voice announcements
- Send text messages to wireless LED message boards for highly visible public notifications
- Communicate with facility-wide wireless 2-way intercom stations
- Initiate on-time, schedule-based, break/shift bell alerts for improved productivity
- Activate and control wireless beacon lights for public visual alerts
- Send SMS text messages to cell phones for instant event notification
- Synchronize all on-site wireless analog/digital clocks to one accurate time

The VS4820 provides users with the capability to communicate with Visiplex wireless panic buttons. A received panic button call can instantly activate a pre-defined event, such as text messaging, voice message playback, visual alert activations, etc.

Equipped with a built-in commercial band radio transmitter, the VS4820 is ideal as an all-in-one wireless paging solution. This solution provides full RF coverage to communicate and activate devices for up to 1,000’. When a longer range is needed, such as multi-building applications, Visiplex offers medium or high-power radio transmitters/repeaters that can extend the radio signal range to a multi-mile radius, essentially covering any type of installation.

The VS4820 offers additional features and options, such as, an integrated SMS modem for text messaging and alerts, dial-in phone access for remote event activation, a serial port for integration with a local building fire alarm system, a built-in Wi-Fi module for interfacing with a local network, hard-wired alarm inputs and a uniquely designed paging handset for improved voice communication and privacy.

Wireless System Architecture
The Visiplex product line offers all the needed components to design and implement a variety of wireless solutions ranging from a simple break bell system to large, multi-building voice & data paging system. Some of the Visiplex products that can trigger or be controlled by the VS4820 are:

- VS26xx – Wireless PA speakers with integrated beacon light and LED message board options.
- VNS24xx – Wireless intercom stations for two-way voice communications and voice messaging.
- VNS16xx – Wireless LED message boards for text/time display and voice messaging option.
- VNS272x – Wireless multi-color, LED beacon lights for high visibility alerts.
- VNS271x – Wireless multi-color, LED corridor lights for visual status indications & alerts.
- TS4xxx – Wireless synchronized, analog clocks for facility-wide, accurate time display.
- CT15x – Wall Mounted, wireless panic buttons for a facility-wide event triggering.
- CT10x – Portable/wearable, wireless panic buttons for instant event activations.
- VP4 – Digital alphanumeric pager for instant personnel notifications.
VS4820 Wireless Paging Base Station - Offers user-programmable event database, where each event can be initiated manually from the unit keyboard or automatically from multiple sources, such as, wireless panic buttons, alarm inputs, phone lines, serial ports and audio inputs. Each event can be programmed to wirelessly activate a single or group of Visiplex wireless products, such as: wireless PA speakers, intercom stations, LED message boards, visual alerts, clocks and can also send text or voice messages to phones.

External Radio Transmitter/Repeater - Equipped with a built-in commercial band radio transmitter, the VS4820 is ideal as an all-in-one wireless paging solution. This solution provides full RF coverage to communicate and activate devices for up to 1,000’. When a longer range is needed, such as multi-building applications, Visiplex offers medium or high-power radio transmitters/repeaters that can extend the radio signal range to a multi-mile radius, essentially covering any type of installation.

Event Controlled Devices

Wireless Indoor/Outdoor PA Speakers – A variety of wireless PA speakers for playback of pre-programmed voice messages, live-voice announcements, and break bell alerts. Some Visiplex speakers come with unique add-on features, such as, integrated, multi-color beacon lights or an LED message board for enhanced visibility when needed.

Wireless 2-Way Intercom Stations – The VS4820 offers 2-way communication with facility-wide wireless intercom stations. These intercom stations can also be used for PA voice messaging and break bell alerts.

Wireless LED Message Boards – Wireless text messaging to LED message boards for highly visible public notifications and public alerts. In addition, these message boards can provide time viewing and offer unique features, such as, integrated PA speakers and power backup batteries.
**Wireless Visual Alert Devices** – Multi-Color LED beacon and corridor lights that can be wirelessly activated and controlled from the VS4820 to provide high intensity warning lights and status indications.

**Wireless SMS Text messaging & Voice Notification** – When equipped with the LTE modem and/or telephone interface, the VS4820 can send instant SMS text messages to pre-defined cell phones or dial out to playback a pre-recorded voice message.

**Wireless Time Synchronized Clocks** – The VS4820 can be set to send a periodic time synchronization signal to a variety of wireless analog and digital clocks that provide one accurate time facility-wide.

**Wireless 2-way Radios & Pagers** – The VS4820 can be equipped with the ability to communicate with 2-way radios, to receive calls or send automatic pre-programmed voice messages. Sending text messages to digital alphanumeric pagers can be done from the unit keyboard or as result of a pre-programmed event.

**Event Triggering Sources**

**Wireless Panic Buttons** – Visiplex offers a variety of wearable, portable or wall-mounted wireless panic buttons for instant alerts. Panic button alerts are received by the VS4820 and can then instantly activate a pre-defined event, such as text messaging, voice message playback, visual alert activation, etc.

**Hard Wired Event Trigger Sources** – The VS4820 can initiate a pre-programmed event from a dial-in phone line, serial port communication with other in-house systems such as Fire Alarm or Access Control, integrated hard-wired alarm inputs, voice-activated messaging by an external audio source, a desktop microphone, etc.

**Keyboard** – The VS4820 keyboard provide the user with the ability to activate any single or group of events, while being able to make provisional changes to event parameters, operation mode and text message, or issue real time voice announcements.
1. **On-Off Power Switch** – Main power switch
2. **DC Power Input** – DC power supply input, 12VDC 3Amp
3. **Handheld/Microphone Input** – RJ-9 connector for external desktop microphone or handset.
4. **USB Input** – USB Type-B connector for PC programming and control.
5. **Phone Line** – RJ-11 input for analog (POTS) telephone line.
6. **RS-232 Port** – RJ-45 Serial port connection for interfacing with other computerized systems.
7. **Audio Input** – RCA audio input for external source integration and voice activated events.
8. **Audio Output** – RCA audio output for integration with external sources and amplified speaker.
9. **Alarm Inputs** – RJ-45 connector to provide one common line and 7 external alarm inputs.
11. **TX Output** – BNC RF-Out antenna connector for the unit integrated radio transmitter.
12. **Keyboard** – Full size keyboard.
13. **Handset with PTT** – VS3017 Handset package for improved voice clarity and privacy.
14. **LCD Display** – Graphic LCD display with backlight.
15. **Built-In Microphone** – Integrated microphone for 2-way communication and PA announcements.
16. **Internal Speaker** – Built-in speaker for 2-way voice communication.
17. **Radio TX Antenna** – BNC connector for the VS4820 built-in radio transmitter.

18. **Power On** – LED indicator for unit activity status.


20. **Call Status** – LED indicator that monitor panic buttons activity and call placements.

21. **Phone Line** – LED indicator to show the status of phone line during dial in & out activity.

22. **CAPS** – LED indicator for the keyboard CAPS Lock status.

23. **LTE/GPS Antenna** – SMA antenna connector for the LTE modem or GPS receiver module options.

24. **Wi-Fi Antenna** – SMA antenna connector for the built-in Wi-Fi option.

25. **RX Antenna** – SMA antenna connector for the built-in radio receiver.
Main Paging Screen

This VS4820 Main Paging screen is designed to help users to instantly trigger pre-programmed events, make live voice announcements, answer incoming call from wireless intercom stations and monitor panic buttons activity. From this screen a user can activate special system functions using key combinations and function buttons. To activate/send an event, the user simply enters the 3 digits ID number of the selected event into the EVENT field at the left top of the screen. The Status Line at the bottom of the screen, is showing the most common functions that are available to the user: [F1] to select an event from a list of all active events, [F2] to display the latest system activity and [F9] to access the System Setup Menu.

Here is a list of all functions that are available to the user from the Main Paging screen:

[F1] – Event List, shows a list of all available events for user selection and activation (see Event Selection Screen).

[F2] – Activity Log, display the latest events and system paging activities (see Activity Report Screen)

[F7] – Volume Down, lower the speaker level.

[F8] – Volume Up, Raise the speaker volume.


[F12] – Clears the VS4820 Call indicator and all active wireless panic buttons calls.

[Fn]+[F1] – Sends the current Time Mode to wireless LED message board (see System Setup Menu - Message Board Setup).

[Fn]+[F2] – Sends the current Marquee Message Mode to wireless LED message boards (see System Setup Menu - Message Board Setup).

[Fn]+[F3] – Sends FM radio activation to wireless PA speakers (see System Setup Menu – FM Radio Configuration).


[Fn]+[F5] – Display the System Status screen (see System Status Screen).

[Fn]+[F9] – Mute the VS4820 speaker

[Fn]+[F10] – Sync the VS4820 base station time to wireless cell time (if SMS Modem option is installed).

[Fn]+[F11] – Initiate periodic time sync signal transmissions to clocks and LED message boards.

[Fn]+[F12] – Pause time sync signal transmissions to clocks and LED message boards.

Event Selection Screen

Use the Up/Down arrow keys and [PgUp]/[PgDn] keys to select specific event from the list and simply activate the event by hitting the [Enter] key. Events marked with ■ status are events that been programmed to require additional user
input and confirmation before the event can be activated. Events that are marked with ▶ status are programmed as auto mode events that when selected, will be activated instantly without any additional user input.

### Activity Report Screen
The Activity Report screen provide the user with the ability to view the latest event activations and system paging activity. When selected, the screen will display a list of events with information regarding the event ID, name, time & date. Use the Up/Down arrow keys and [PgUp]/[PgDn] keys to select event from the list.

Hitting the [Enter] key to select specific event, will open another window that will display the full details of that event activation.

The detailed information includes the event ID, event name, the source of the activation (unit keyboard, serial port, panic button, etc.), the exact time and the encoded message data that has been transmitted.

### System Status Screen
The System Status screen provides a review of the VS4820 hardware configuration, interface setup and unit specific information.
SN – Shows the unit serial number.

S. Port – Indicates the current RS-232 serial port protocol. The protocol and serial port functionality can be selected by the administrator to match the right interface with external equipment or electronic systems.

USB – Indicates the current USB serial communication protocol. This protocol can be selected by the administrator to match the right PC interface for monitoring and control.

Radio – Displays the selected paging radio used by the system. From the System Setup Menu, the user can select the internal or external radio that is being used for the system wireless paging activities.

RX – Displays the current receive frequency of the system radio. For example: 452.8625 MHz

TX – Displays the current transmit frequency of the system radio. For example: 462.7500 MHz

Phone – Shows the status of the system phone line interface. If integrated and functional the status will be INST, otherwise it will be N.A.

SMS Modem – Shows the status of the system LTE modem interface for text messaging. If integrated and functional the status will be INST, otherwise it will be N.A.

WiFi – Shows the status of the system Wi-Fi network interface. If integrated and functional the status will be INST, otherwise it will be N.A.

GPS RX – Shows the status of the system GPS receiver. If integrated and functional the status will be INST, otherwise it will be N.A.

ALARMS – Indicates the status of the system’s seven alarm inputs. When any of the alarm inputs are active, its status indication will change from ‘0’ to ‘1’. This field can help with diagnostic and testing of the alarm inputs functionality.

VER – Shows the unit firmware version.

The user can use the [F9] button to refresh the screen and alarm inputs status or hit the [ESC] key to return to the Main Paging Screen.

**System Setup Menu**

Accessing the System Setup Menu, requires an administrator level access and entering a password. This password can be changed or disabled from the System Configuration menu. By default, the user will be asked to enter a password. The factory default password is ‘PASSWORD’.

After entering the right password, the System Setup Menu will be displayed.
This menu lets the user configure all the parameters and functions of the VS4820, create and edit events, manage databases, and more. Selecting a submenu item from the list can be done by scrolling using the Up/Down arrow keys and hitting the **[Enter]** key, or by entering a 2-digit number that associate with the selected submenu.

**Add/Edit Event**

The Add/Edit Event submenu lets the user create new or edit existing system events. When selected, a list of existing events will be displayed on the screen.

To edit an existing event, the user can use the up/down arrow, **[PgUp]**, **[PgDn]** & **[Enter]** keys to select or enter the 3-digit event ID number, results with the selected event information being displayed on the screen.

To create a new event, an unused 3-digit ID number should be entered. If the entered ID has not been used before, a popup window will appear on the screen to let the user to select the type of event.

Using the Up/Down arrow keys, the user can choose the type of event and press **[Enter]** to select it, resulting with the event editing screen being displayed with default parameters values.

**Wireless PA Speaker Event**

The Wireless PA Speaker event type was designed to initiate live voice announcements or playback of pre-recorded voice messages from the VS4820 data storage. This event type activates and controls any Visiplex product that is equipped with the ability to receive live voice transmissions and drive PA speakers, such as the VNS26xx wireless PA speakers, VNS16xx LED message boards and the VNS24xx 2-way intercom stations.
**Code** – A unique 7-digit activation code that can activate a single or group of wireless PA speakers. Usually, Visiplex products include up to 8 user-programmable activation codes, that provide individual speaker activation or as part of up to 7 groups/zones. Use the keyboard numeric keys to enter/edit the activation code.

**Level** – Setup the PA speaker audio level for this event. Use the Up/Down arrow keys to select one of four audio levels: Low, Medium, High or Maximum level.

**Timeout** – Select the maximum duration that the PA speaker will stay open after activation, before timing out and closing (unless the VS4820 base station ends the PA session first). Use the Up/Down arrow keys to select the preferred timeout value.

**Mode** – Select the PA activation mode between Live audio or playback of one of pre-programmed voice messages stored on the unit. Use Up/Down arrow keys to select the mode or pre-programmed (01-99) voice message.

**Pre-Tone** – Each of Visiplex products that comes with PA voice capabilities, include built-in alert tones, that can be used to get the public attention, before the actual PA message announcement starts. To use this option, use the Up/Down arrow keys to select the alert ID, and if needed the number of times the alert will repeats.

**Name** – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

**Auto** – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user input or confirmation. If the Auto mode is disabled, the user will be able to temporarily change the PA message audio level and confirm the activation, before any data is being transmitted.

**TX Channel** – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

**Tone/Voice/Bell Alert Event**

The Tone/Voice/Bell Alert event type was designed to initiate the playback of pre-recorded tone & voice alerts to Visiplex products that are equipped with that feature such as the VNS26xx wireless PA speakers, VNS16xx LED message boards and the VNS24xx 2-way intercom stations. This is the preferred event type to associate with a break bell schedule to initiate a bell tone alert at specific times and days.
**Code** – A unique 7-digit activation code that can activate a single or group of wireless PA speakers. Usually, Visiplex products include up to 8 user-programmable activation codes, that provide individual speaker activation or as part of up to 7 groups/zones. Use the keyboard numeric keys to enter/edit the activation code.

**Tone** – Select the tone/bell alert ID number (01-99), using the Up/Down arrow keys.

**Level** – Setup the PA speaker audio level for this event. Use the Up/Down arrow keys to select one of four audio levels: Low, Medium, High or Maximum level.

**Length** – If the selected tone duration is too short, its length can be adjusted using this parameter.

**Repeats** – Select the number of times the tone/alert should be repeated, if any.

**Pre-Tone** – Select another optional tone alert to be played before the event main tone (to get public attention). To use this option, use the Up/Down arrow keys to select the pre-tone alert ID (01-09).

**Name** – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

**Auto** – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user input or confirmation. If the Auto mode is disabled, the user will be able to temporarily change the tone playback audio level, number of repeats, and confirm the activation, before any data is being transmitted.

**TX Channel** – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

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**Beacon Light Event**

The Beacon Light event type is designed to control and activate wireless beacon lights to help indicate to staff, visitors, and employees about specific emergency situations, production line alerts, or severe weather conditions.

- **Code** – A unique 7-digit activation code that can activate a single or group of wireless beacon light devices. Usually, Visiplex products include up to 8 user-programmable activation codes, that provide individual activation or as part of up to 7 groups/zones. Use the keyboard numeric keys to enter/edit the activation code.

- **Mode** – Light signaling mode. Select one of five modes: Light Off, Light On, Flash 1 (slow flash), Flash 2 (fast flash) and Strobe. Select the preferred mode using the Up/Down arrow keys.

- **Color** – Select the beacon light color. There are 5 basic (Amber, Green, Blue, White & Red) and 4 user-programmable colors to choose from. Select the preferred color using the Up/Down arrow keys.
**Brightness** – Setup the beacon light brightness for this event. Use the Up/Down arrow keys to select one of 9 brightness levels.

**Tone** – Select a tone alert mode, to provide audible indication when the beacon light is activated or deactivated. Use the Up/Down arrow keys to select one of 9 tone alert modes.

**Timeout** – Set the length of time the beacon light will stay on after activation. Enter 5 digits number to setup the timeout total number of seconds or ‘00000’ when no timeout is required (beacon light will stay on until turned off by another event).

**Name** – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

**Auto** – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user input or confirmation. If the Auto mode is disabled, the user will be able to temporarily change beacon light mode, color and confirm the activation, before any data is being transmitted.

**TX Channel** – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

### LED Message Board Event

The wireless LED Message Board event type is designed to control and activate Visiplex alphanumeric message boards such as the VNS16xx series of LED message boards or the VNS2640 wireless speaker (with integrated LED display). These LED message boards offers many features, parameters, and text viewing options that can be customized by the user with each individual event or globally in the **Message Board Default Setup** menu.

![LED Message Board Event Interface](image)

**Code** – A unique 7-digit activation code that can activate a single or group of wireless LED message boards. Usually, Visiplex products include up to 8 user-programmable activation codes, that provide individual activation or as part of up to 7 groups/zones. Use the keyboard numeric keys to enter/edit the activation code.

**Slot** – Text message slot selection. Each Visiplex LED message board can display up to 99 different messages by assigning a screen time slot to each message and keep rotating the displayed messages until they reach their timeout or cleared by another event. Selecting **ANY** slot mode will write the event text message into the next available free time slot to be displayed, in rotation, with other messages on the screen. Selecting any slot values from 01-99 will write the event text message into a specific time slot on the display (overwriting other messages, if they exist). Setting the slot to **Clear Display** will send a clear all command to the message board clearing all slots and display screens. Select the preferred slot number/mode using the Up/Down arrow keys.

**Slot Time** – Select the slot time length for this event. When rotating with other messages, the user can set the message screen time (5-20 seconds) for this specific event activation. If there are no other messages on the screen, the slot time will be ignored, and the message will be displayed until timed out or cleared. If the event Slot was set
in the previous field to specific slot number (01-99), you can set the slot time value to **Clear Slot**, so this event will be used to clear a specific slot on the message board. Select the preferred slot time or mode using the Up/Down arrow keys.

**Name** – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit `[Enter]` to move to next field.

**Font** – Select the preferred text font style & size this event. Use the Up/Down arrow keys to select one of 16 font styles. See the VNS16xx/VNS2640 user manual for full description of all available font styles.

**Format** – Select the preferred text display formats for this event. Use the Up/Down arrow keys to select one of 16 text formats. See the VNS16xx/VNS2640 user manual for full description of available text formats.

**Timeout** – Set the length of time the message will stay on the screen. Enter 5 digits number to setup the timeout total number of seconds or ‘00000’ when no timeout is required (message will stay on the screen until cleared by another event).

**Align** – Select the text line alignment. Use the Up/Down arrow keys to select Left, Center or Right.

**Flash** – Enable or disable the text flash mode. Use the Up/Down arrow keys to select.

**Yloc** – Select the vertical location of the text line on the screen for this event. Depends on the selected font size & style, the user can select the exact vertical location of the text line, for example to vertically center the line on the screen. Use the Up/Down arrow keys to select one of 10 values (0 – top of the screen).

**TX Channel** – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

**Auto** – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user input or confirmation. If the Auto mode is disabled, the user will be able to temporarily add/edit the event text message and confirm the activation before any data is being transmitted.

**Message** – Text message field. Enter here the text message for this event. Hit the `[Del]` key to clear the screen and the `[Enter]` key when done typing.

Use the Left/Right arrow keys to navigate between the fields. Use `[F5]` to save any changes, `[F9]` to delete the event (if editing an existing event) and hit the `[ESC]` key to exit the screen back to the previous menu.

**Corridor Light Event**

The Corridor Light event type is designed to control and activate the Visiplex VNS2710 wireless corridor light fixture that is being used to help indicate to staff about specific call status, especially when used in assisted living facilities.

**Code** – A unique 7-digit activation code that can activate a single or group of wireless corridor light devices. Usually, Visiplex products include up to 8 user-programmable activation codes, that provide individual activation or as part of up to 8 groups/zones. Use the keyboard numeric keys to enter/edit the activation code.
Mode – Light signaling mode. Select one of five modes: Light Off, Light On, Flash 1 (slow flash), Flash 2 (fast flash) and Strobe. Select the preferred mode using the Up/Down arrow keys.

Color – Select the corridor light lens color. There are 5 basic (Amber, Green, Blue, White & Red) and 4 user-programmable colors to choose from. Select the preferred color using the Up/Down arrow keys.

Brightness – Setup the corridor light brightness for this event. Use the Up/Down arrow keys to select one of 9 brightness levels.

Lens – The VNS2720 equipped with four independent lenses that each can be activated with a specific color and mode. This field let the user select a specific lens (or ALL to apply to all lenses) to be controlled with this event. Use the Up/Down arrow keys to select 1-4 lens number or ALL for all lenses.

Timeout – Set the length of time the corridor light will stay on after activation. Enter 5 digits number to setup the timeout total number of seconds or ‘00000’ when no timeout is required (corridor light will stay on until turned off by another event).

Tone – Select a tone alert mode, to provide audible indication when the corridor light is activated or deactivated. Use the Up/Down arrow keys to select one of 9 tone alert modes or None to disable.

Name – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

Auto – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user input or confirmation. If the Auto mode is disabled, the user will be able to temporarily change the corridor light lens, mode, color and confirm the activation, before any data is being transmitted.

TX Channel – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

Two-Way Intercom Station Event

The VS4820 base station can communicate with wireless intercom stations such as the VNS2410, VNS2420 & the VNS2216, to provide 2-way voice communication across commercial facilities. The Two-Way Intercom Station event type let users register each intercom station into the system database and configure how they will interact and communicate with the base station. Before programming of intercom stations can be done, the user must enable the Two-Way Intercom option in the System Configuration menu.

Code – Each wireless intercom station has a unique 7-digit access code that helps the VS4820 to recognize incoming calls and initiate a call to specific station. This code can be entered in two ways:

1. Use the keyboard numeric keys to enter/edit the intercom access code as provided by administrator.
2. Register the intercom station wirelessly: Hit the [F1] key, the VS4820 base station will wait for a call. Press the Call button on the intercom station that needed to be registered. The Code field will be populated with station access code.

**Mode** – Visiplex wireless intercom stations, can operate in a 2-Way voice communication or in **Listen** only mode. If the programmed intercom station is equipped with the **Hands-Free** option, the user can choose this mode (choosing this mode option when it is not supported by the intercom station itself, can result with communication errors). Use the Up/Down arrow keys to select the preferred mode for the station.

**Timeout** – Every time a 2-way call is established between the base and intercom station, there is inactivity timeout counter, that will end the call if there is no voice activity from both sides. Use the Up/Down arrow keys to select the preferred timeout period from 30 seconds to 240 seconds.

**Name** – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit **[Enter]** to move to next field.

**Level** – Setup the intercom station speaker audio level for this event. Use the Up/Down arrow keys to select one of four audio levels: Low, Medium, High, or Maximum level.

**SSQ** – Set up remotely the intercom station squelch level for this event. Used for diagnostic purposes when there is radio interference between the base and intercom stations. Usually this level should not be changed but can be set by the user from 0-9 using the Up/Down arrow keys.

**BSQ** – Set up the VS4820 base station squelch level for this event. Used for diagnostic purposes when there is radio interference between the base and intercom stations. Usually this level should not be changed but can be set by the user from 0-9 using the Up/Down arrow keys.

**Answer** – Set up the intercom station answering mode. By default, when called, the intercom station Call button needs to be pressed to acknowledge the call and start communicating. If set to **AUTO+**, the station will automatically answer the call and will emit a tone to notify the station side that the intercom microphone is open. When choosing the **AUTO-** option, the station will automatically answer the call, but without a tone. Use the Up/Down arrows to select the preferred answer mode.

**Auto** – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user confirmation. If the Auto mode is disabled, the user will need to confirm the intercom call before any data is being transmitted.

**Audio** – Select the preferred audio reception on the VS4820 base station for this event. If equipped with a handset, the incoming audio from the intercom station can be diverted to the handset, mostly for privacy reasons. Otherwise the incoming audio will always be from the VS4820 built-in speaker. Use the Up/Down arrows to select the preferred option.

**TX Channel** – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

Use the Left/Right arrow keys to navigate between the fields. Use **[F5]** to save any changes, **[F9]** to delete the event (if editing an existing event) and hit the **[ESC]** key to exit the screen back to the previous menu.

**Two-Way Radio Event**
The VS4820 base station can communicate with most portable UHF radios, for live 2-way voice communications or to broadcast a pre-recorded voice message.
Name – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

Level – Setup the VS4820 speaker level for this event. Use the Up/Down arrow keys to select one of four audio levels: Low, Medium, High, or Maximum level.

Mode – Select the radio communication mode between Live audio or playback of a pre-recorded voice message stored on the VS4820. Use Up/Down arrow keys to select the mode or pre-programmed (01-99) voice message.

Auto – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user confirmation. If the Auto mode is disabled, the user will need to confirm the call before any data is being transmitted.

CTCSS – Select a PL/CTCSS tone for channel privacy mode when needed. Use Up/Down arrow keys to select the right tone value or None to disable.

TX Channel – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

Digital Pager Event
The VS4820 base station can communicate with most alphanumeric (such as Visiplex VP4 pager), numeric, and voice pagers. The VS4820 use POCSAG digital paging format for numeric & alphanumeric pagers, and 2-Tone signaling for voice paging.

Code – A unique 7-digit activation code that can activate a single or group of pagers. Usually, Visiplex pagers include 2 user-programmable activation codes (capcodes). Use the keyboard numeric keys to enter/edit the activation code.

Type – Select the pager type: Alphanumeric, Numeric or Voice pager. Use the Up/Down arrow keys to select the pager type.

Baud- Select the POCSAG data baud rate for the digital pager. Use the Up/Down arrow keys to select from 512 BPS, 1200 BPS or 2400 BPS.
Name – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

Auto – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user confirmation (must have text entry in the Message field). If the Auto mode is disabled, the user will be able to add/edit and confirm the message before any data is being transmitted.

Message – Pre-programmed message can be entered here, for Auto message transmission, or as a template that the user can change just before sending the message out. Due to pagers limitations, the maximum alphanumeric message is 60 characters, and a numeric message is limited to 16 digits. Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

Dial Out Voice Message Event
When equipped with the Telephone Line Interface option, the VS4820 base station can call a specific phone line and playback a pre-recorded voice message. This Dial Out Voice Message event type will help with setting up the phone number to call and other user programmable parameters.

- Name – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.
- Voice PPM – Select a pre-recorded voice message stored on the VS4820. Use Up/Down arrow keys to select a pre-programmed (01-99) voice message.
- Repeats – Set up the number of times the pre-recorded message will repeat before disconnecting the call.
- Auto – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user confirmation. If the Auto mode is disabled, the user will need to confirm the event before any call will be placed.
- Phone Number – The dial out phone number. Use the keyboard numeric keys to enter the phone number.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

SMS text Message Event
When equipped with the LTE SMS Modem option, the VS4820 base station can send text messages to cell phone subscribers. This SMS Text Message event type will help with setting up the cellphone number to text and other user programmable parameters.
Name – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

Auto – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user confirmation. If the Auto mode is disabled, the user will be able to add/edit and confirm the text message before it will be sent.

Phone Number – The dial out phone number. Use the keyboard numeric keys to enter the phone number.

Message – Pre-programmed text message can be entered here, for Auto message transmission, or as a template that the user can change just before sending the message out. Type in the text message for this event. Hit the [Del] key to clear the text field and the [Enter] key when done typing.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

Multimedia Alert Event

One of the unique features of the VS4820 base station is the ability initiate voice, text, and visual alert within one instant radio transmission. A Multimedia Alert event provide the user with the ability to create one event that can trigger up to 4 different event types: PA speaker, beacon light and LED message board. Visiplex offers a variety of products that comes with multimedia alert capabilities such as: VNS2640 wireless PA Speaker with LED message board and beacon lights, VNS2620 wireless speaker with beacon lights, VNS16xx LED message boards with PA speaker option, and others. Multimedia event can also be used to activate a mix of different media wireless devices, for example: A VNS2610 wireless PA speaker, VNS2720 beacon light and VNS1620 can all be activated simultaneously using one multimedia event (as long as they all sharing the activation code). Before creating a multimedia event, the user must first create up to four different types of events that will be used.

Code – A unique 7-digit activation code that can activate a single or group of wireless devices. Usually, Visiplex products include up to 8 user-programmable activation codes, make sure that all the devices you are planning to activate with this event, has this activation code programmed. Use the keyboard numeric keys to enter/edit the activation code.

Auto – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user confirmation. If the Auto mode is disabled, the user will need to confirm the event before any data is being transmitted.
Voice Event – A 3-digit id of a Wireless PA Speaker event that has already been programmed. The speaker will be activated with all the parameters as programmed in that event, except the multimedia event activation code. If PA speaker activation is not to be part of this multimedia event, enter ‘000’ to disable it.

Tone/Bell Event – A 3-digit id of a Tone/Voice/Bell Alert event that has already been programmed. The speaker will be activated with all the parameters as programmed in that event, except the multimedia event activation code. If tone/bell activation is not to be part of this multimedia event, enter ‘000’ to disable it.

Beacon Event – A 3-digit id of a Wireless Beacon Light event that has already been programmed. The beacon light will be activated with all the parameters as programmed in that event, except the multimedia event activation code. If beacon light activation is not to be part of this multimedia event, enter ‘000’ to disable it.

Display Event – A 3-digit id of a LED Message Board event that has already been programmed. The display will be activated with all the parameters as programmed in that event, except the multimedia event activation code. If message board activation is not to be part of this multimedia event, enter ‘000’ to disable it.

Name – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

TX Channel – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the event (if editing an existing event) and hit the [ESC] key to exit the screen back to the previous menu.

Sequential Event Group
This type of event is a group of up to 8 previously programmed events, that will be activated in a sequential order one after the other. For example, it can activate a playback of a weather alert message on the PA system, while sending SMS text message to staff member cellphone. While creating this group, it is important to make sure that all the selected events are programmed in Auto mode, to prevent the sequence from hanging up, while waiting for user input or confirmation. If a live voice to PA speaker is needed to be part of the group, make sure it is the last one on the list, so all the other events will be sent before the user will start the live voice announcement.

Name – A descriptive title/name for the event that will help identify it from other events. Type in the description and hit [Enter] to move to next field.

Auto – Enable/disable the event activation style. If enabled, the event will be initiated instantly, (when activated) without any additional user confirmation. If the Auto mode is disabled, the user will need to confirm the event before any data is being transmitted.

Event 1 – Event 8 – A 3-digit id of a pre-programmed event. Each event will be activated with all the parameters as programmed. If one of the event fields is not being used, enter ‘000’ to disable it.
Radio TX/RX Setup

The Radio TX/RX Setup submenu lets the user select the type of radio the VS4820 base station will use for its paging activities.

Radio – Use the Up/Down arrow keys to select the preferred available radio. **External Analog** or **External Digital** should be selected when using a medium or high-power external paging transmitter such the Visiplex VS101xx series. **Internal Analog** (default) or **Internal Digital** transmitter options should be selected when utilizing the VS4820 internal low-power transmitter.

RX – If internal transmitter or external digital transmitter been selected, the RX field will display the designated receive frequency of the VS4820.

TX - If internal transmitter or external digital transmitter been selected, the TX field will display the designated transmit frequency of the VS4820.

TX Delay – An option to add delay before the transmitter starts to send data (useful when using RF repeaters for a very large area coverage). Use Up/Down arrows to select the number of seconds (0-9), where no delay (0) is the default value.

RX Squelch – When using the RX channel to monitor paging activities, this field value can set up the squelch level to minimize reception of weak signals and RF noise. Use the Up/Down arrow keys to select a value from 0 (no squelch) to 9. Value of 4 is the default value.

Firmware – Display the firmware version of the selected radio transmitter.

[F6] – Coverage Test. When there is a need to check the RF reception limits of the VS4820 paging base station. Using a portable receiver such as VP4 pager, the user can set up the system to send a test message every certain amount of seconds and verify reception of the message in different site locations to ensure system transmitter RF coverage. The user can set the pager code/capcode, baud rate and time between test page transmissions.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes and hit the [ESC] key to exit the screen back to the previous menu.
System Configuration

The System Configuration submenu lets the user configure the functionality of the VS4820 base station, enable/disable features, select default audio levels, microphone source, etc. Use the Up/Down arrow keys to navigate between the menu items and hit [Esc] to exit to the previous menu. Note: Make sure to save any changes using the [F5] key.

AUX Auto Page Event – The VS4820 can use the AUX audio input to initiate a pre-defined event. This feature can be used for example, to wirelessly expand existing wired PA system, by activating PA Speaker event when audio is detected on the AUX input. Use the Left/Right arrow keys to move and fill the event ID and the VOX level (0-9) to set the audio detection sensitivity. Enter ‘000’ as the event id to disable this feature (default mode).

MIC Auto Page Event – The VS4820 can initiate a PA speaker (or any other) event, every time the handset or microphone PTT button is pressed. This feature provides a simple, quick way to start a live voice PA announcement without any keyboard input. Use the Right arrow to move and fill the event 3-digits ID number, or ‘000’ to disable this feature (default mode).

Wired Alarm Inputs – Global alarm inputs control. When Enabled, the hard-wired alarm inputs are enabled and follow the programming setup for each alarm input in the Alarm Input Setup menu. Select Disabled to disable all alarm inputs.

Panic Button Alerts – The VS4820 can receive calls from Visiplex wireless panic buttons. This menu item can disable or enable this feature using the preferred call reception port. Use the Up/Down arrow keys to select Enabled Port 1 (using external receiver attached to the Serial port), Enabled Port 2 (using external transmitter receiver), Enabled Port 3 (using the internal transmitter receiver) or Disabled (default value).

Serial Port Baudrate – This menu item selects the preferred RS-232 communication speed on the VS4820 Serial port. Use the Up/Down arrow keys to select (default 38400 BPS)

Two-Way Intercom - The VS4820 can receive and initiate 2-way intercom calls to/from wireless intercom stations. This menu item can disable or enable this feature using the preferred communication port. Use the Up/Down arrow keys to select Enabled Port 2 (using external transmitter receiver), Enabled Port 3 (using the internal transmitter receiver) or Disabled (default value). Note: if this menu item is set to Disabled, all 2-way intercom events will not function, and stations will not be able to register.
**Setup Screen Password** – Use this menu item to change the Setup Menu access password. Use the [Del] key to delete the current password, or type to edit it. If this password field is being left empty, no password will be required to access the System Setup Menu from the Main Paging Screen (default password is PASSWORD).

**Paging Screen Password** - Use this menu item to change the Main Paging Screen access password. Use the [Del] key to delete the current password, or type to edit it. If this password field is being left empty, no password will be required to use the Main Paging Screen (default no password).

**Password Entry Timeout** – An elapsed timer feature for the System Setup Menu and Main Paging Screen passwords. After the assigned timeout, the user will need to enter the password again. Timeout can be set from 000 (disabled) to 240 minutes. This safety feature is useful to ‘lock up’ the VS4820 keyboard when the unit is being left unattended for a period.

**Phone Access Pin** – A 3-digit pin number for more secure phone access. If the VS4820 unit is equipped with telephone interface, users could call in to activate system events. If this pin number is enabled, calling users will need to enter the pin number before being able to select and activate events. Valid pin numbers are 000 (disabled) to 999.

**Phone Voice Prompts** – Select if the telephone interface will communicate with callers using voice prompts or short tones to speed up the call.

**Phone Auto Page Event** – A feature that will trigger a pre-defined event when incoming ring is detected by the telephone interface. The user can enter a 3-digit event number or ‘000’ to disable this feature (default mode).

**Radio Call Sign** – Every FCC license to operate a radio comes assigned call sign. If needed, the user can type here the call sign and the VS4820 transmitter will broadcast it every hour.

**Speaker Audio Level** – Set up the default Vs4820 built-in speaker level. The level can later be changed using the volume control key [F7] & [F8]. The speaker audio level can be set to Mute, Low, Medium, High, and Maximum.

**Speaker Alert Level** – Set up the default Vs4820 built-in speaker alert level for incoming intercom calls. The speaker alert level can be set to Mute, Low, Medium, High and Maximum.

**Microphone Source** – Set up the microphone source for the Vs4820. The user can select from Internal (using the unit built-in microphone), Handset (when handset option is available), Desktop (when desktop microphone option is available) or External to use 2-way radio microphone.

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![System Configuration](image)

**System Configuration**

- **Phone Voice Prompts**: Disabled
- **Phone Auto-Page Event**: N.A.
- **Radio Call Sign**: N.A.
- **Speaker Audio Level**: Med
- **Speaker Alert Level**: High

![Enter]-Select Item [F5]-Save [ESC]-Exit

![System Configuration](image)

**System Configuration**

- **Microphone Source**: Handset
- **Keyboard Tone**: Disabled
- **Handset Speaker Level**: Med
- **Pre-Page Delay**: Disabled

![Enter]-Select Item [F5]-Save [ESC]-Exit

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Keyboard Tone – Enable or disable the keyboard key confirmation tone.

Handset Speaker Level - Set up the handset (if available) speaker level. The level can be set to Mute, Low, Medium, High, and Maximum.

Pre-Page Delay – Enable or disable a short delay before sending the event data. Needed when working with some brands of old pagers. Disabled by default.

Listen Before Transmit – Enable or disable monitoring the TX RF signal before transmission. Needed when more than one base station is using the same transmit frequency, to avoid RF interference between them.

Alarm External PTT – Enabled or disable using alarm input 1 as a Push to Talk input, when using the AUX IN as source for paging audio. Needed when using weather or 2-way radios to interface with the VS4820 base station.

Voice PTT Mode – Enable or disable using the microphone PTT to control the transmitter during voice paging. When disabled, the transmitter will transmit constantly until the event is ended.

Secure Data Mode – A feature that can scramble all VS4820 paging data with a user selected digital code (001-299), for improved security and eliminating the possibility of another VS4820 base station, using the same frequency, activating local wireless devices. If used, the selected code must be set in all local system wireless devices, otherwise data transmissions from the VS4820 will be ignored. The user can enter a 3-digit event number or ‘000’ to disable this feature (default mode).

Clock/Time Sync Setup

The VS4820 can send periodic synchronization to Visiplex analog & digital clocks, to sync all to one accurate time source. The Clock/Time Sync Setup submenu lets the user setup the VS4820 clock time & date, configure the wireless time synchronization functions and select how the unit internal clock will be synchronized. Use the Up/Down/Left/Right arrow keys to navigate between the screen items.

Time – Manually setup the local time. If needed to update, type in the local time in 24 hours format, otherwise hit the Right arrow key to move to the next field.

Month, Day, Year – Manually setup of the local date. Use the Up/Down arrow keys to set the right date.

GMT Time – System calculated GMT time from the local time and the time zone fields.

Time Zone – Setup the local time zone. Use the Up/Down arrow keys to select the local time zone.

Daylight Saving – Setup the local Daylight Saving mode. Select Yes or No. Note: If the VS4820 is set to get time updates from local cell tower (when equipped with LTE modem option), always set the Daylight Saving mode to No.

Analog Sync – Setup the time synchronization mode for Visiplex wireless analog clocks. The user can select from SLOT 1, SLOT 2, SLOT 3 or Disabled (default mode). If analog synchronization mode is enabled (any slot), the VS4820 will broadcast time synchronization transmissions for few minutes around 2 AM, every night. If enabled, the
user can activate analog time syncs by using the \([Fn]+[F11]\) key combination from the Main Paging Screen. In that case, the VS4820 will send a time sync transmission every minute (unless stopped with \([Fn]+[F12]\) keys) until 2 AM, when it will set itself back to nighttime syncs only.

**Digital Sync** - Setup the time synchronization mode for Visiplex wireless digital clocks and LED message boards. The user can select Enabled or Disabled for this field. If enabled, the VS4820 will send a time synchronization transmission every hour at the top of the hour. In addition, the user can initiate a digital time sync using the \([Fn]+[F11]\) key combination from the Main Paging Screen (the VS4820 will schedule a time sync at the top of the next minute).

**Use Cell/GPS Time** – If the VS4820 equipped with the LTE Modem or GPS receiver, it could synchronize its clock time to one of these accurate clock sources. Select Enabled will to activate this feature.

Use the Left/Right arrow keys to navigate between the fields. Use \([F5]\) to save any changes and hit the \([ESC]\) key to exit the screen back to the previous menu.

**Panic Buttons Setup**

The VS4820 can be programmed to receive calls from Visiplex wireless portable/wearable and wall-mounted panic buttons. This submenu provides the user with the ability to configure how the VS4820 will respond when receiving a call from each panic button. Make sure to activate the Panic Buttons Alert option from the System Configuration submenu to enable reception of panic buttons calls. When selected, the Panic Buttons Setup screen will open with a list of all previously programmed panic buttons.

<table>
<thead>
<tr>
<th>Device ID</th>
<th>Device Code</th>
<th>Type</th>
<th>On Event</th>
<th>Off Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>1234567</td>
<td>BUTTON-1</td>
<td>300</td>
<td>301</td>
</tr>
<tr>
<td>012</td>
<td>0800801</td>
<td>BUTTON-2</td>
<td>200</td>
<td></td>
</tr>
</tbody>
</table>

Use the Up/Down arrow keys to select a panic button record to edit or enter a 3-digit ID number (001-199) into the Device ID field, to create a new record. The VS4820 can monitor and respond to a maximum of 200 panic buttons.

**Device ID** – A 3-digit device ID number as selected from the previous screen.

**Device Code** – A 7-digit unique device identification code. It can be entered manually or automatically. To automatically program the device id, hit the Register\([F1]\) key, activate panic button and the wirelessly received device code will be registered into the field.

**On Event** – A 3-digit event ID that will be activated when the panic button sends activation call. Enter ‘000’ to disable.

**Off Event** – A 3-digit event ID that will be activated when the panic button sends call cancel. Enter ‘000’ to disable.
Repeats – The On Event can be set to repeat every minute up to 15 times (or until call cancel/clear is received).

Call Type – Select the type of panic button to match the device model and button that is being set.

Activation Delay – The On Event activation can be delayed up to 90 seconds if needed. Enter values from 00-90 in this field (00 – no delay is the default value).

Supervised – Each of the Visiplex wireless panic button products, can be set to send periodically a unique supervision call, that reports its functionality and battery level status. This is being used to ensure that the panic button can be received by the base station and is fully functional. Setting up the Supervised feature to Yes, will enable the monitoring by the VS4820 of this panic button device. If for some reason a supervision call will not be received from a specific panic button, the VS4820 can be programmed to notify a supervisor about it.

Activation Plan – The VS4820 comes with a user programmable Activation Plan, that set up daily active hours for every weekday. The user can program up to 9 different activation plans and assign each alarm on the system to be monitored during the assigned activation plan hours only. Assigning Activation Plan 0 to alarm, will make it monitored by the system all the time (24/7).

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes, [F9] to delete the panic button record (if editing an existing one) or hit the [ESC] key to exit the screen back to the previous menu.

Alarm Inputs Setup
The VS4820 comes with 7 alarm inputs, located at the back of the unit. The RJ-45 Alarm connector uses one pin as a common and the other 7 pins as inputs. When any of the alarm inputs is shorted to the common line, an alarm event will be triggered. Visiplex offers a special RJ-45 to 8-pin screw terminal connector to simplify the hard-wired connections.

When the Alarm Inputs Setup submenu is being selected, the VS4820 screen will display a list of all 7 alarm inputs with status and assigned events. Using the Up/Down arrow keys the user can select an alarm input to program or edit, switching to the Alarm Input Setup screen.

Input – Shows the selected alarm input

On Event - A 3-digit event ID that will be activated when the alarm input is triggered. Enter ‘000’ to disable.

Off Event – A 3-digit event ID that will be activated when the alarm input is back to normal. Enter ‘000’ to disable.
**Activation Delay** – The On Event activation can be delayed up to 90 seconds if needed. Enter values from 00-90 in this field (00 – no delay is the default value).

**Activation Plan** – The VS4820 comes with a user programmable Activation Plan, that set up daily active hours for every weekday. The user can program up to 9 different activation plans and assign each alarm on the system to be monitored during the assigned activation plan hours only. Assigning Activation Plan 0 to alarm, will make it monitored by the system all the time (24/7).

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes or hit the [ESC] key to exit the screen back to the previous menu.

**Message Board Default Setup**

This menu is designed to help the user customize and get the most of the Visiplex VNS16xx LED message board series and the VNS2640 wireless PA speaker with integrated LED message board. When a new LED Message Board event is created, the default parameters from this menu will be part of it, in addition to the other parameters that can be setup in the event menu itself. This menu also enables the user to program the time display and marquee (a message that runs on the message board screen when the screen is cleared, like a welcome or status message) text message modes.

![Message Board Default Setup](image)

**Brightness** - Use Up/Down arrow keys to set the default message board event brightness level where valid levels are 1-9.

**Scroll Speed** – Use Up/Down arrow keys to set the speed of that the text is scrolling on the screen. Valid numbers are 1-9.

**Scroll Delay** – Use Up/Down arrow keys to select the time that first line of a text message will pause before beginning to scroll. Valid values are 0-9 seconds. It is a useful feature when using text with voice/tone alerts, providing the viewer extra time after hearing the initial tone alert to look up to the message board before the text starts scrolling.

**Scroll Pause** – Use Up/Down arrow keys to select the idle screen time between the end of text line scrolling and the start of a new scroll line. Valid values are 0-9 seconds.

**Clock Mode** – Use Up/Down arrow keys to enable/select the message board time display mode. Up to 19 different time and date modes/formats are available, providing the user with the ability to choose the time/date display format, font size, etc. The value of this field can also be set by entering a 2-digit number from 00 to 19 (00 - disable clock display on message boards).

**MMD Mode** – Use Up/Down arrow keys to enable/select the marquee message display mode. Up to 9 different display modes/formats are available, providing the user with the ability to choose the text display format, font size, etc. The value of this field can also be set by entering a one-digit number from 0 to 9 (0 - disable marquee message display on message boards).
**Group Update Event** – This field allows the user to select a specific LED Message Board event in the system event database (valid values 000-999) that could be used to wirelessly update all LED Message boards on site. This event should be programmed with the common code to access all message boards, so when activated, it will update all message boards with the new parameters and display modes. For example, if the time mode/format in this menu will be changed, and the user would like to update all the message boards with the newly selected time mode, using the key combination of [FN]+[F1] from the VS4820 Main Screen will use the Group Update Event to wirelessly update all LED message boards. If this specific event message field is programmed with a text message, selecting [FN]+[F2] from the Main Screen will wirelessly update the marquee message on all LED message boards.

After making changes to this menu, use the F5 key to save them. Hit Esc to exit.

**Database Management**
The Database Management submenu provides the user with the ability to backup, restore or delete system databases, system configuration, and activity log files. Selecting this submenu will bring up the Database Management screen.

![Database Management](image)

**Backup All System Data** – Selecting this option will back up all VS4820 data, creating 3 files (event database, system configuration and event schedule database) with date stamp. The backup process creates one set of files per day. If the backup option is selected more than once a day, the previous files for that day will be overwritten. For example, if a backup was made at 11 PM and another one two hours later, there will be two sets of backup files, each set stamped with its actual backup time/date.

**Clear Event Database** – Clears all previously programmed events from memory.

**Clear Alarm Inputs Database** – Clears all alarms inputs setup/programming from memory.

**Clear Panic Buttons Database** – Clears all panic buttons setup/programming from memory.

**Clear Schedule Database** – Clears all schedule entries from memory.

![Database Management](image)

**Restore/Delete Data Files** – This menu option provides the user with the ability to delete old backup data files or restore them to the VS4820 memory (to undo recent changes for example). When selecting this option, the screen will display a list of all previously backed up files. The user can navigate the list using the Up/Down arrow & PgUp/PgDn keys. Hit the [F9] key to delete a selected file on the list. Use the [F1] key to restore a selected data file.
When restoring data files, it is important to identify each file and understand what type of data will be restored (overwritten), as this process is irreversible. A safe way to restore data files is to make a fresh backup of all system data before. The data files that their name starts with ‘EDF’ will restore all events, panic buttons, alarm inputs programming. The data files that their name start with ‘SDP’ will restore all VS4820 configuration and setup parameters. The files that their name start with ‘SDB’ will restore the schedule event programming.

**View/Delete Log Files** – This menu option provides the user with the ability to delete old daily activity log files or view their content. When selecting this option, the screen will display a list of all existing activity log files.

The user can navigate the list using the Up/Down arrow & PgUp/PgDn keys. Hit the [F9] key to delete a selected log file on the list. Use the [F1] key to view the log file content and a list of all VS4820 activity for that day.

The user can navigate the list using the Up/Down arrow & PgUp/PgDn keys, select a specific event and hit the [Enter] key to view the details of that event.

Hit the [Esc] key to exit the view to the previous screen/menu.

**Reset All Data (Factory Reset)** – This menu option is irreversible and selecting it will clear all user data in the unit memory, returning the unit to the default factory setup and configuration.
Event/Bell Schedule Setup

The VS4820 comes with an event schedule database, that can be programmed to automatically activate a pre-defined event at a specific day and time. The schedule database can hold and activate up to 99 different events per day, making it an ideal solution for break bell alerts, shift change notifications, lights control, etc. Visiplex offers a free VPS software that can help with creation and update of event schedule, and later uploading it to the VS4820.

Schedule Status – This menu option let the user control the schedule state. The user can select between Disabled, Paused and Active schedule states. The schedule will run and activate events only when it set into active state.

Schedule Type – Enable selection between four options of Weekly Schedule or Calendar mode. A Weekly Schedule design is based on 7 weekdays with up to 99 time-assigned events per day. This type of schedule mode will repeat itself every week. The user can program 4 different weekly schedule templates and switch between them if needed during special occasions such as holidays, summer breaks, etc. The Calendar schedule design is based on assigning up to 99 time-assigned events per day for every day of the year. This schedule design is more flexible for the user, but rarely being used.

Add/Edit Daily Schedule – Up to 99 daily schedules templates can be created, each with up to 99 time-assigned events. Use the Up/Down arrow keys to select the daily schedule to view/edit and hit [Enter]. The screen will display all existing events for that specific daily schedule.

Add/Edit Weekly Schedule – The VS4820 offers 4 weekly schedule templates. Using the Up/Down arrow keys, the user can select the weekly schedule template to view or edit.

When selected, the screen will display a list of all weekdays for that schedule with the ID of the daily schedule that has been assigned to each day.
The user can use the Up/Down arrow keys to select any of the weekdays and hit [Enter] to edit. Using the Up/Down arrow keys a specific pre-programmed Daily Schedule template, can be assigned to that weekday.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes or hit the [ESC] key to exit the screen back to the previous menu.

Pre-Programmed Voice Messages

The VS4820 comes with ability to store up to 99 pre-recorded voice messages that can be used by PA Speaker, Dial out and 2-Way Radio events, to playback a pre-programmed voice message from the VS4820 data memory. Using the Visiplex VPS software, users can upload their own voice messages into the VS4820. The voice files should be in WAV format, sampling rate of up to 22KHz BPS, 8 Bits and with a file size that is smaller than 10 Mbytes.

Selecting this submenu option will display a list of all existing voice files.

The user can hit [F1] to playback a selected file, [F9] to delete a file and [F2] to record a voice file from a microphone or AUX audio input. All voice files names are based on a 2-digit ID from 01-99. When uploading or recording a new voice file, make sure that the selected file ID is not already exist.

Activation Plans

The VS4820 comes with a user programmable Activation Plan schedule that sets up the daily active hours for every weekday. The user can program up to 9 different activation plans and assign each alarm on the system (hard-wired or wireless panic buttons) to be monitored only during the assigned activation plan hours. For example, the user could set up an Activation Plan that is active after working hours (6:00 PM – 8:00 AM) every weekday and for 24 hours during the weekend. If any VS4820 alarm is assigned to this plan, the VS4820 will ignore any alarms triggered Monday-Friday, between 8:01 AM to 5:59 PM. Assigning Activation Plan 0 to VS4820 alarm, will make it monitored by the system all the time (24/7).

Selecting the Activation Plans submenu option will display the start time and the length of the active period for each day of the week, for a selected Activation Plan.
Using the [F1] key, the user can select the Activation Plan schedule to view or edit. To change the active hours for a specific day of the week, use the Up/Down arrow key to select the day and [Enter] to edit. Use the Right/Left arrow key to navigate between the fields. Hit the [F5] key to save any changes or [Esc] to exit to previous screen.

**FM Radio Configuration**

Many of Visiplex products that come with speakers for PA voice paging uses, offers the option of a built-in FM radio receiver for audio reception from commercial or private radio stations. These products can be programmed to playback received FM audio, when the PA speaker is idle, as a background music or for other purposes.

When selecting this submenu option, the FM Radio Configuration screen will be displayed.

**Code** – A unique 7-digit activation code that can activate a single or group of wireless devices. Usually, Visiplex products include up to 8 user-programmable activation codes. Make sure that all the devices you are planning to activate the FM radio on have this activation code programmed. Use the keyboard numeric keys to enter/edit the activation code.

**Station** – Select the FM radio station that the wireless PA speakers will tune to. Enter a 4-digit number for the preferred station frequency (0939 for 93.9 MHz, 1085 for 108.5 MHz, etc.).

**Level** – Set the PA speaker level when playing FM radio audio. Use the Up/Down arrow keys to select one of four audio levels: Low, Medium, High, or Maximum level.

**Squelch** – Set the FM radio station squelch level, to mute the audio when the received radio station signal is too weak and contains noise. Use the Up/Down arrow keys to select the preferred squelch level (1-9).

**Start Time** – Set up the time of day to start the playback of the FM radio audio. When enabled, the VS4820 will send FM radio activation signal to all speakers at that time, daily. Enter the preferred time in 24 hours format.

**Timeout** – Set the duration of time that the FM radio playback will be enabled. After this time elapsed, each PA speaker unit mute the FM station audio and playback will be stopped until another activation command is received.

**FM Mode** – Setup the FM station reception mode, to enhance the audio quality when needed. Use the Up/Down arrow keys to select a value between 0-9 (default is 0).

**Activation** – Set up the VS4820 FM radio activation mode. If set to Off, FM radio activations from the VS4820 can be sent from the Main Paging Screen manually, using [Fn]+[F3] to activate and [Fn]+[F4] to deactivate the FM...
playback. When the activation mode is set to Auto, the VS4820 will automatically send FM activation command daily, at the assigned start time.

**TX Channel** – Select the transmitter RF channel for this event, if other than the default channel, in cases where the VS4820 base station operates on more than one frequency.

Use the Left/Right arrow keys to navigate between the fields. Use [F5] to save any changes and hit the [ESC] key to exit the screen back to the previous menu.

**SMS LTE Modem Setup**

The built-in LTE modem option enables the VS4820 to send SMS text messages or receive text messages from subscribers, to remotely activate pre-programmed events. To simplify the process of setting up the modem, Visiplex ships the VS4820 (when ordered with SMS modem option), with the SIM card already installed, a mobile account and number are already set and fully tested, so customers will be able to use the SMS feature when the unit is out of the box. The customer will receive from Visiplex an account number and access code, enabling taking over the SMS account and deal with the mobile carrier from that point on.

When selecting this submenu item (and LTE modem option is installed), the SMS Modem Status screen will display.

![SMS Modem Status Screen]

**Status** – Displays the LTE modem status. If modem is installed and function correctly this field will show **Ready On-Line**. Any other status reading indicates that the modem is not ready or there is a connection problem.

**Signal Level** – Displays the received signal strength with the local mobile cell tower. Make sure the LTE antenna on the back of the VS4820 is installed correctly to ensure good signal reception.

**IMEI** – Shows the Internal mobile identification number for the LTE modem. Used for diagnostic purposes.

**Number** – Shows the assigned mobile number to the LTE modem. Used for diagnostic purposes and being given to users who like to remotely activate system events by texting to the VS4820, using the Visiplex app.

**Access Code** – A user programmable access code that should be provided by administrator to users that are authorized to remotely activate system events using the Visiplex app. This access code is required to be entered during the Visiplex app setup.

**Authorized Users** – A VS4820 administrator can authorize up to 20 mobile numbers to remotely activate system events using the Visiplex app. Only Visiplex app communications from authorized mobile numbers that are on the list will be accepted, all others will be ignored for security purposes. Administrators can add users or revoke access to existing users by adding/removing their mobile number from the list. Use the Up/Down arrow keys to select authorized user slot (01-20), enter 10-digit mobile number to selected slot or [Del] to remove a number.

Use [F1] to refresh the modem status information, hit [F5] to save any changes made or [Esc] to exit to previous screen.