G-Series P25 Voice Pagers

User Manual for G2/G4 Single Band & G3/G5 Dual Band Models

Analog / Digital / Multi-Protocol



Voice Pager Specially Designed for Public Safety

- Advanced Radio Performance
- Mission Critical Applications
- **▼**Optional GSM Features Available



If you have any questions, please call our main line: 817-303-9320. www.Unication.com

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Part A. **G2-G5** Specifications and Features

▼ Digital Trunking and Analog Voice Pager Specification & Feature

A1	Operating Environment				
	Physical Operating Environment	Operating Temperature Range	-30 to + 60°C		
а		ESD (Electrostatic Discharge)	contact ± 8KV Air ± 15KV		
	System Operating Environment		Analog (AN	л / FM)	
			Digital (TDI	MA / FDMA)	
				Analog identify modulation	
		Available Modulation Type	type and decode protocol automatically at the same time. (on same channels and same frequencies)		
b			Analog: 2-Tone / 5-Tone / MDC 1200 / CTCSS / CDCSS		
~		Available Support Protocol			
		/waiiabic oupport i fotocoi	Digital	P25 Conventional	
			VHF Band	: 136MHz~174MHz	
		Available Support Frequency Range	UHF Band : 406MHz~512MHz		
		Range	700 / 800 MHz Band : 764MHz~870MHz		
С	Apply to (Group)				
A2	Hardware Specification				
	Mechanical	Fixed and Carry Style	Belt Clip		
		Size	102 x 61 x 31.5 (L*W*H /mm)		
		Weight (g)	Without Battery(g) : ≤ 220 (g)		
а		Dust / Waterproof	According to specification of MIL-810 & Ingress Protection Rating is IP 67		
		Special Requirement	Drop Protection Pad		
			Display UV Protection		
	Operation Buttons	Fixed Function Key	13		
		Soft Key	4		
b		Navigation Key	1		
		Power			
		Volume Control			
		Channel Switch	8		
	Display	Display Type	LCD		
С		Saturation (grayscale / full color)	full color		
		Size (length x wide) Number of Dots	2.0 inches (30.6x40.8/mm) 220 x 176		
		Characters & Length		characters	
d	Backlights	Type (LED / EL) : LED	5 miles A EL sindidolois		
е	LED	LED Type (monochrome / multicolor) : red / green / blue / orange	Power LED No Brightno completed	ess – Power off / Power on	

Part A. G**2-G5** Specifications and Features

▼ Digital Trunking and Analog Voice Pager Specification & Feature

A2 Hardware Specification						
е	LED	LED Type (monochrome / multicolor) : red / green / blue / orange Blue - Power on / Connec cable / Charging complete Flash Blue - Charging Message LED: No Brightr Red - Receiving voice call			completed ging b Brightness – No signal	
	Frequency / Channel Specification	Frequency Setting		Channel Spacing	Wide Band : 20/25k Narrow Band :10/12.5k Scan : 2.5k	
				Hardware : 8 (do not need to switch via software)		
f		Number of Channels		Software : 64 (8 C software)	ch / 8 Zone) (switch via	
				Total: 64		
		Capcodes (Addresse	s)	Analog		
		Frequency / Channel Specification of each	channel	Digital		
		•		main device to be	used as message alert	
		Vibration : Motor and	vibration spe	aker device are use	ful in meeting	
g		Tone and Vibration : A	Alert tone and	I vibration remind us	sers as the same time	
	Type of Alert	Vibration then Tone : '	Vibrate first,	then alert after few s	seconds	
		Blacklight: Coloured backlights indicate users to identify the important level of each message, such as different colors, flashing backlights, different brightness				
		LED : Different LED colors, flashing LED, different indicators				
	External Port	Power Interface : 5V/1.5A DC Internal Power Supply / Battery input interface				
h		Data recording streaming interface (PPS)		Mini USB		
		Wireless data streaming interface: (Bluetooth, WiFi)				
	Power Supply	Battery type : (Alkaline battery, Lithium Ion battery)		1. Lithium Ion Red : 3.7V / 2450mA 2. Li-Ion Recharge 3.7V / 2450mA	chargeable Battery	
i		Battery Life: (Average bettery life at 5/5/90 duty cycle, 3 paging per day)		> 24 hrs 2-Tone protocol cousing 24 hrs per d Receiving 5 mins message per hour	lay of 2-Tone voice	
	Storage Memory	Built-in Storage Memory: (including voice, text & saving time of data)		Voice		
j				Text		
				Others (Photos / F	Profiles)	
A3	A3 Electrical Characteristics					
	Audio Performance	Audio quality: Audio input in 1KHz, then modulated by system		Hum & Noise Rati	io > 34 dB	
				Squelch Level	< -57 dBw	
				Audio Distortion	< 2 % (Electrical) < 3 % (Acoustic)	
а			Play Back	Audio Distortion	< 3 % (Electrical) < 4 % (Acoustic)	
		SPL (12") : Alert tone loudness at 12 inches	Alert Output	96 +/- 2 dB SPL		

Part A. G**2-G5** Specifications and Features

▼ Digital Trunking and Analog Voice Pager Specification & Feature

а	Audio Performance	SPL (12") : Alert tone loudness at 12 inches Speech Output	94 +/- 2 dB SPL			
		Frequency Stability:	Low band			
		at the normal atmospheric	VHF	+/- 1 ppm		
		temperature (25°C)	UHF			
		Channel Spacing :	Low band			
		at (25 °C)	VHF	10/12.5/20/25 kHz		
		,	UHF			
		Alert Sensitivity 20 paging :	Low band VHF	≦-121dBm		
		at (25 °C)	UHF			
			Low band			
		Alert Probability VS RF Level:		100% @ Paging		
		at (25 °C)	VHF	Sensitivity + 3 dB		
		Message Sensitivity 20 paging :	UHF			
		(Voice Pager @ 12dB SINAD)	Low band	≦ 4.0 uv/m		
		(Alpha Pager 3 Non-error) : at	VHF	≦ 2.5 uv/m		
		(25 °C)	UHF	≦ 3.5 uv/m		
		Message Probability VS RF	Low band	≦ 4.0 uv/m		
b	RF RX Performance	Level: (Voice Pager @ 12dB	VHF	≦ 2.5 uv/m		
		SINAD) (Alpha Pager 3 Non-error) : at (25 °C)	UHF	≦ 3.5 uv/m		
			Low band			
		Adjacent Channel Selectivity:	VHF	≧65 dB @ ±25 KHz		
		at (25 °C)	UHF			
			Low band	> -8 dB		
		Co - Channal Rejection :	VHF			
		at (25 °C)	UHF			
			Low band	≥ 70dB @ Alert ≥ 70dB @12dB SINAD		
		Intermodulation Rejection :	VHF			
		at (25 °C)	UHF			
			Low band	≥ 35 dB @PS.+60dE ≥ 70 dB		
		Intermodulation High Level Third	VHF			
		Order Rejection : at (25 °C)	UHF			
			Low band			
		Spurious & Image Rejection :	VHF			
		at (25 °C)	UHF			
			Low band	≥ 90 dB		
		Blocking Rejection :	VHF			
		at (25 °C)	UHF			
Α4	CERTIFICATION					
		FCC : Part 15 Subpart B / ICES-00	FCC : Part 15 Subpart B / ICES-003			
		· ·	CE : EN55022 / EN55024 / EN61000-3-2 / EN61000-3-3			
а	Certification	RoHS				
		MIL-STD	Jup 0, D, / Class II,	010up L, 1 , G		
	Additional Function with un	iguo accossarios				

Part B. Pager Overview

B1. Pager Appearance

Front View





Side View



Top View



Accessories

▼Belt Clip





Errocation

Model No. 156/02/8921-A

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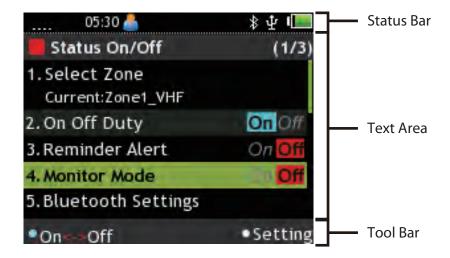
A bestlere significant professional particular professional particular p

■ Lithium Ion
 Battery Pack

NO.	Description
1	LED Indicator
2	Navigation Key
3	Soft Key (K1~K4)
4	Back Key (F2)
5	Home Key (F1)
6	Speaker
7	Microphone
8	Receive Antenna
9	Channel Knob
10	Play Key
11	Power on/off & Volume Knob
12	Reset Key
13	Function Status on/off Key (S1)
14	Mini USB Port
15	Belt Clip
16	Battery Cover

Part B. Pager Overview

B2. LCD Display



B3. LCD Introduction



Power LED:

NO.	Entity Key	Description
1	Blue	Power on processUSB cable is connected to G4 and charging is completed.
2	Flash Blue	Charging

Message LED:

NO.	Entity Key	Description
1	Red	Receiving voice call or data call

Part B. Pager Overview

B4. Icon Introduction

Status Bar Icon

NO.	ltem	lcon	Description
1	RF Strength	ııl	RF signal strength.
2	Out of Range	⊗.	Signal is out of range.
3	Message Hint	早	Unread message icon indication.
4	Time Display	18:30	Time display (24 hour clock).
5	Off Duty Status	3	Off duty status.
6	On Duty Status		On duty status.
7	Bluetooth	*	Bluetooth is activated.
8	Bluetooth Headset	*	Bluetooth earphone is connected.
9	USB cable	Ψ	USB cable is connected.
10	Trunking Status	T	Trunking registered.
10	Training States	S	Trunking scanning.
11	Clock Alarm	Ō,	Clock alarm is activated.
12	Battery Status		The battery gauge indicator is located on the status bar and keeps you informed of the batery energy level. The five indicators are:100%, 75%, 50%, less 0% (flashing battery icon).

C1. Initial Use

Install Battery

- 1 Turn the screws and remove the battery cover.
- 2 Insert the battery pack into the pager.
- 3 Replace the battery cover and and tighten the screws.



Insert the battery so that the connector pins align with battery contacts of the G2-G5.

Battery Charging

G2-G5 has its own customized lithium Ion battery, it can be charged by mini USB cable.



Power On

After the battery installed, turn the volume knob clockwise to turn on pager. You will hear "click" sound and see the word of "Loading" on the display.



Standby Screen

On the standby screen, the G2-G5 displays information on the current receiving mode.



Receive Message

It displays the information of the incoming call when receiving a message.



Main Menu

- 1. In Standby Mode, press the "K1" soft key to enter the Main Menu.
- 2.Press the "Home" key to go back to Standby Mode.



C2. Pager Message Box

 View and Manage Text Message Records in Message Box.

1. Enter Message Box:

Use the Navigation Key to select Message Box in the Main Menu.

2. Operation:

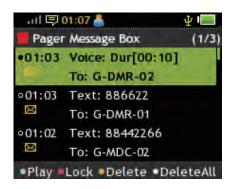
- A. Use the Navigation Key to select Message.
- B. Press the "K1" Key to read highlighted message.
- C. Press the "K2" Key to lock/unlock highlighted message. A lock icon shows on a locked message.
- D. Press the "K3" Key to delete highlighted message.
- E. Press the "K4" to delete all messages.

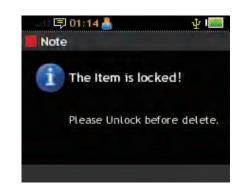
3. Read Message:

- A. Use the Navigation Key to scroll the message.
- B. Press the "K1" Key to lock/unlock the message.

Note: A locked item cannot be deleted.







C3. Function status

• Enter Function Status:

Use the Navigation key to select Function Status in the Main Menu.

Basic Operation:

Use the Navigation Key to select features to set.



1. Select Zone:

Press the "K1" Key to enter setting screen. Use the Navigation Key to select Zone and then press the "K1" Key to confirm. Press the "K2" Key to save. You can press the "K4" Key to check detailed information of highlighted Zone.



2. On Off Duty:

Press the "K1" Key to enable or disable the feature. If On Off Duty is disabled, the speaker is muted when receiving messages.



3. Bluetooth:

Bluetooth Device: Press the "K1" Key to enable or disable the feature.

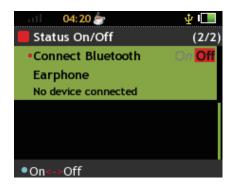
Connect Bluetooth Earphone: Press the "K1" Key to start searching for the Bluetooth Earphone devices.

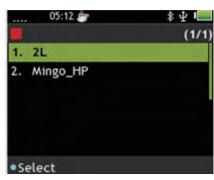
Connect another Bluetooth Device: Press the "K1" to start searching for Bluetooth devices other than earphone.

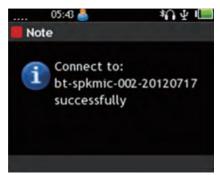
If only a Bluetooth device is found, the G4 starts pairing to the device. The G4 shows the pairing status on the screen.

If there are 2 or more devices, use the Navigation Key to select device and press the "K1" Key to start pairing.

Press the "K1" Key to stop Bluetooth pairing.









C4. Voice Memo Box

 View and Manage Voice Memo in Voice Memo Box.

1. Enter Voice Record Box:

Use the Navigation Key to select the Voice Memo Box in the Main Menu.

2. Record a New Voice Memo:

If there is no voice memo, press the "K1" Key to start recording.

- A. Press the "K1" Key to pause.
- B. Press the "K4" Key to save the voice memo.
- C. Press the "K1" Key to set the voice memo as Alarm.
- D. Press the "F2" Key to back to Voice Memo box.



3. Voice Memo:

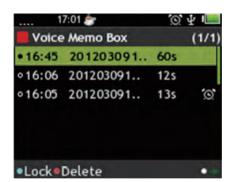
View and manage the voice memos.

Features page 1:

- A. Press the "K1" Key to play highlighted voice memo.
- B. Press the "K2" Key to set highlighted voice memo
- C. Press the "K3" Key to record a new voice memo.
- D. Press the "K4" Key to switch to features page 2.

Features page 2:

- E. Press the "K1" Key to lock/unlock the highlighted item.
- F. Press the "K2" Key to delete the highlighted item.
- G. Press the "K4" Key to switch to features page 1.



4. Set Alarm:

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to make highlighted value +5.
- C. Press the "K2" Key to make highlighted value +1.
- D. Press the "K3" Key to make highlighted value -1.
- E. Press the "K4" Key to save.

C5. All Band Scan

 Set a range to scan, or view the scanned channel list.

1. Enter Voice Record Box:

- A. Use the Navigation Key to select All Band Scan in the Main Menu.
- B. Use the Navigation Key to select a feature, and press the "K1" key to enter.
- C. Press the "K1" Key to set the voice memo as Alarm.
- D. Press the "F2" Key to back to Voice Memo box.



2. Start a New Scan:

Set scan range, band and frequency step.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to set the highlighted item.

 Use the Navigation Key to adjust numeric value.
- C. Press the "K4" Key to start scanning.
- D. Press the "K1" Key to stop scanning.



3. Active Frequency List:

View and manage scanned channel list.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to monitor the highlighted channel.
- C. Press the "K2" Key to lock the highlighted channel.
- D. Press the "K3" Key to delete the highlighted channel.
- E. Press the "K4" to delete all scanned channels.



C6. Function Setting

- View and manage pager basic function.
 - Enter Function Status:
 Use the Navigation Key to select Function
 Setting in the Main Menu.
 - Basic Operation:
 Use the Navigation Key to select function.
 Press "K1" Key to start setting.

1. Zone:

Please refer C2-1 to get detailed information.

2. Alert Tone Volume:

Use the "K1" Key to adjust the pager tone volume.

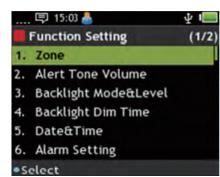
- A. Operation Allowed: Operation successed.
- B. Operation Succeed: Message received.
- C. Operation Failed: Message receiving failed.
- D. Message Arrived: Text message received.
- E. Alarm: Alarm volume

3. Backlight Mode&Level:

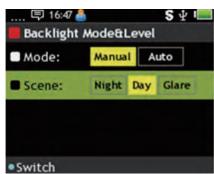
Use the "K1" Key to adjust backlight mode.

- A. Mode: Select the backlight mode. There are 2 modes: "Manual" or "Auto".
- B. Manual: Night is low level, Day is medium and Glare is high level of backlight.









4. Backlight Dim Time:

Adjust screen backlight dim time.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to make highlighted value +5.
- C. Press the "K2" Key to make highlighted value +1.
- D. Press the "K3" Key to make highlighted value -1.
- E. Press the "K4" Key to save.

5. Date & Time:

Adjust Time of pager.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to make highlighted value +5.
- C. Press the "K2" Key to make highlighted value +1.
- D. Press the "K3" Key to make highlighted value -1.
- E. Press the "K4" Key to save.

6. Alarm Setting:

Set up to 2 sets of Alarm.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to activate the Alarm.
- C. Press the "K4" Key to set.

Alarm setting:

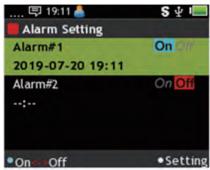
- A. Use the Navigation Key to move.
- B. Press the "K1" Key to make highlighted value +5.
- C. Press the "K2" Key to make highlighted value +1.
- D. Press the "K3" Key to make highlighted value -1.
- E. Press the "K4" Key to save.

7. Monitor Mode:

Please refer to C2-4 for more detailed information.









8. Ring Mode:

Select Ring mode.

There are 5 modes:

■ Tone: Tone only.

Vibrate: Vibrate only.Silent: Mute mode.

■ Vibrate then tone: Vibrate first then tone.

■ Tone and Vibrate: Both.

A. Use the Navigation Key to move.

B. Press the "K1" Key to select.

C. Press the "K4" Key to save.



C7. Information

View the Pager information.

1. Enter Information:

Use the Navigation Key to select Information in the Main Menu.

2. Read:

Language: Display language■ Language: Display language■ Version: Firmware version.■ SDRAM: SDRAM size.

■ Protocol Model: Device model type.





C8. Diagnostic

View the radio signal strength.

1. Enter Message Box:

Use the Navigation Key to select Message Box in the Main Menu.

2. Read Information:

- A. Rpt Name: Name of repeater
- B. RSSI(dBm): Radio Signal Strength Indicator.
- C. Protocol: Using Protocol of current channel.
- D. Frame Error: Received signal error radio.
- E. Others: Refer to channel setting.

