



G-Series

Voice Pager for Public Safety



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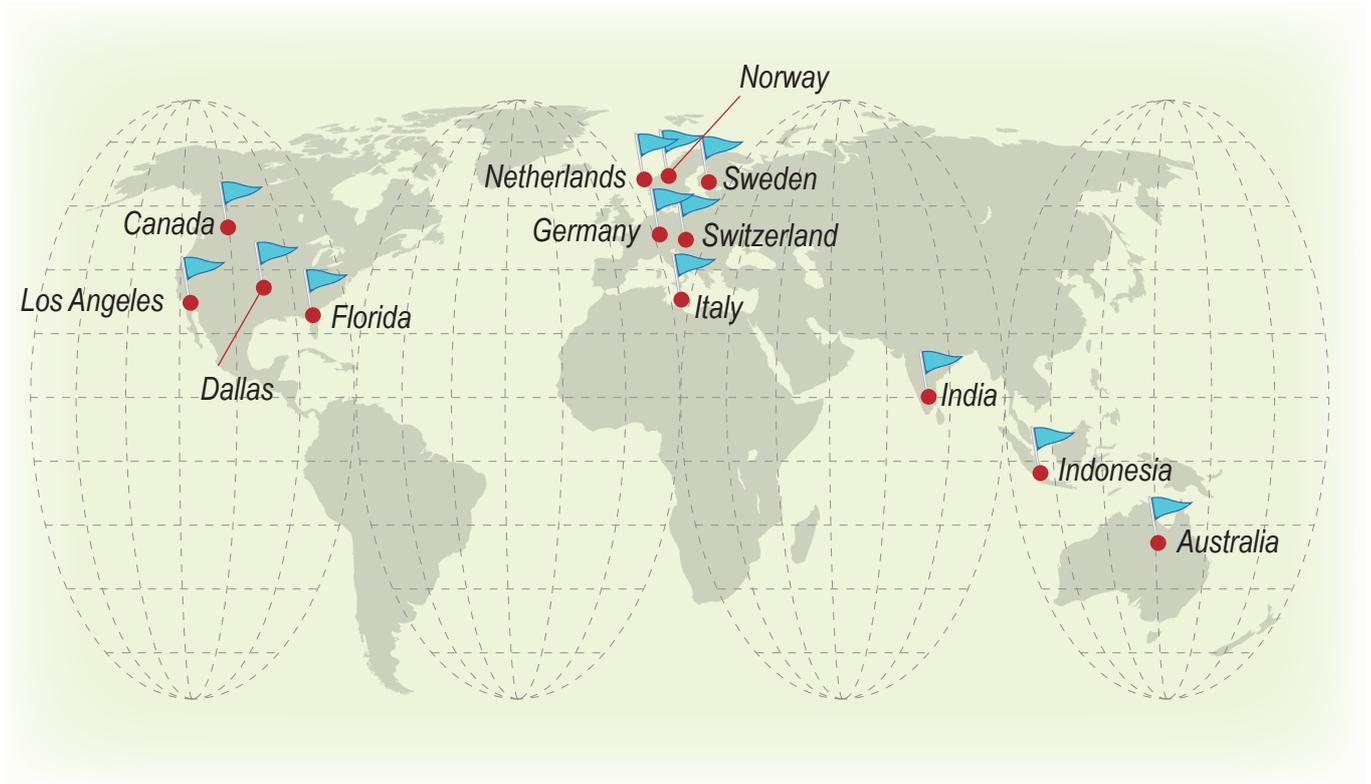
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■ What is Unication ?

- Unication Co., Ltd was originally founded in 1992 and has 27 years' experience with designing and manufacturing advanced critical communication solutions and systems. The innovation and advancement of Unction's professional radio communications products is the main spindle of the brand's development.
- Unication currently has independent design centers or sales companies in Los Angeles, Dallas, Florida, Poca Reyton, Canada, Australia, and Germany.
- As of now, Unication radio products have been sold to the United States / Canada, the Netherlands, Norway, Sweden, Switzerland, Australia, Italy, India, Indonesia and Middle East countries



■ Unication Voice Pager Design Concept :

Utilizing voice pagers to alert volunteer firefighters of emergency incidents has been a fire department tradition for decades, and from generation to generation, the unnamed heroes of volunteer fire departments have given a huge contribution to our society.

Thanks to technological trends, fire department communication systems are moving toward digital and trunked radio systems, and away from the analog radio system. Firefighter's current analog voice pagers are not capable of use with these new digital communication systems, and radio manufacturers have made it clear there are no plans to develop a suitable product. The reason, from a business point of view, is that the number of users and market size, when compared to other public safety industries, are quite small. This has unfortunately caused a frightening trend with some volunteer firefighters moving away from emergency paging systems to use substitute solutions such as alpha pagers, cell phone text messages or smart-phone APPs.

These substitute solutions sacrifice the safety of volunteer firefighters due to the fact that firefighters receive a paging and go to the incident, put on fire rescue gear and join the fire rescue mission, but they don't know the critical information about the circumstance of the fire venue (e.g. the usage of the building, the material of the building, whether explosive chemical inside the building or not. etc.) which easily puts these volunteer fighters into dangerous situation. In general, the critical information is communicated by rescuers who arrived at the incident prior, and they use the radio system to communicate with each other. The ability for fire fighters to use their voice pagers to listen to the on-site radio communications while en route to an incident allows them to understand critical information about the incident location and on scene information being transmitted. This is the reason volunteer firefighters have used voice paging, rather than other paging systems, for decades.

Unication has been dedicated to developing radio systems for 25 years. In the past, we designed and made M3, M4, and M5 voice pager. We have over 20 years of experience designing voice pagers and have worked hard to implement the features that customers demand. Unication deeply considered the technology gap of current voice pagers in the market, and we spent three years developing Unication's G-Series Voice Pager, designing it to meet all environments of different radio communication systems, both now and in the future.



■ Unication G Series Voice Pager Feature :

- **Unication products are designed to support both current and future fire dispatch systems and Volunteer Firefighter paging systems. :**

Based on the Federal's plan, the current communication system will be updated into P25 Trunking radio system adopted by the Public Safety (Firefighters and Police, etc.) so that communication instance can be increased by roaming. Multi-TGID helps different on-duty teams to communication with others and save more frequency resources

The plan is great for the improvement of communication systems, but there are no appropriate products available for the needs of volunteers on this updated system. Unication values the safety and contribution of firefighters nationwide. Therefore, we have designed the G Series Voice Pager to make up for the product lacking and offer a solution to volunteer firefighters nationwide

- Currently, the North American fire department communication systems can be classified as Analog 2 Tones (LB, VHF, UHF) · Digital Convention DMR / P25C (VHF, UHF) and P25 Trunking Phase 1 / or Phase 2 (700-800 MHz)
- For now, Voice Pager for Volunteer Firefighter Dispatch System is Analog 2 Tones (LB, VHF, UHF) only
- The situation above causes some regional fire stations in Convention Digital (P25C / DMR) P25 Trunking system to not receive instant communication and information from the fire location when firefighters are en route. It becomes a problem of volunteers' safety.
- Unication G Series Voice Pager solves all Volunteer Dispatch equipments which can't receive the instant communication from the spot.

- **G Series Voice Pager adopts the design for running in various kinds of harsh environment :**

Generally, volunteer' s firefighters are most of the user of Voice Pager. Volunteers have their jobs and dedicate themselves to the society in the free time. The working environment of these volunteers may be crucial to electronic devices, such as extremely hot summer (+40°C), frozen cold (-20°C), poured rain or dusted room, which may cause that pagers are broken. Unication's design of G Series Voice Pager is considered through the thinking of the use in such kinds of environments.

- More Robust Housing
- G Series adopts rugged outer mechanism and high density elastic rubber so that it can endure higher pressure and power of crash than the common plastic outer. Based on the test from Unication's ALT (Accelerate Life Test) lab, Unication voice pager can endure the falling from 1.8 m high.
- More restrict water-proof design (IP X7)
G Series is able to be immersed in 1 meter deep water with no water damage for 30 mins.
- More restrict dust-proof design (IP 6X)
G Series is able to work in the Dust Environmental Test Chamber for 8 hours under the decompression of maximum 2kPa (20mbar).
- Durability while withstanding rough operating environment
Passed by Unication ALT (Accelerate Life Test) lab and proved by Thermal Shock test
- Eco-Friendly
It acquired ROHS certification and the rechargeable battery is used.
- Explosion Proof

- **Provide a bidirectional communication way instead of one-way broadcast to increase the sufficiency of the resource of dispatching volunteers.**

Through the connection between Voice Pager and Volunteers' mobile phones, the mobile phones can tell Dispatch Center whether volunteers are on / off duty, out of range, receiving messages and their reactions to the dispatch messages (Example: Volunteers can answer that they can go or how long they will arrive there. These messages can be set as can messages in PPS and programmed into voice pagers. All reactions and situation reports can be collected and shown through Unication's PS&DRT system)

Volunteer's resource is very precious, so saving resource should be essential. Chinese motto is said as "Joy comes never more than once but sorrows never come singly", which indicates the importance of saving resource about equipments.

Current Dispatch Center sends one-way messages so that it can't control the quantity of On-Duty volunteers, the arriving time of these volunteers, the situation of fire spot and the time when fire disasters happen. It causes that too many volunteers are allocated to slight accidents while few volunteers are allocated to serious disasters.

For the purpose of solving resource allocation, Unication designs this function to stop the waste of volunteers' resource.

- The status of Voice Pager On/Off, On/Off Duty or Out Of Dispatch Center Signal Coverage Area is sent to Dispatch Center's computers via the Bluetooth in Voice Pager and mobile phone's network. Dispatchers can know the real time status of each pager.
- When Dispatch Center is dispatching, Voice Pager react to Dispatch Center that this pager receives messages (excluding Off Duty message) Dispatch Center can utilize Unication PS&DRT to see the statistics of all reaction and status of pagers. The status of each pager can be observed as well.
- Volunteers can respond to Dispatch Center whether they go or not by the provided functions of Voice Pager after receiving Dispatch Center's message. Volunteers can select can messages to reply to Dispatch Center in the screen of replying messages. (Note: Currently, Voice Pager provides reply selections (Default) such as "Arrive in 10 minutes". Dispatch Center can also set up can messages and program them into Voice Pager.)

Unication PS&DRT (Pager Status & Dispatch Response Tracking) collects the status of each pagers (such as how many volunteers receive messages, how many volunteers can go and how long volunteers arrive there) after volunteers reply to Dispatch Center.

- **Less waste of report time, less damage to lives and wealth (Provide Text message receiving function for 911 call center to receive instant text messages and do fire dispatch)**

This function is for the reduction of reporters, dispatching and arriving time. According to the test result of this function, 3-5 minutes can be saved.

The saving of speed can improve firemen's control of fire disasters to reduce the damage to lives and wealth. Unication's Fire Fighting Solution (Two Way Radio System) provides more sufficient function.

- G series pager provides the function of receiving text messages and photos (this function is for analog, digital such as DMR/P25C and P25 Trunking system) (P.S Unication's unique PS&DRT equipment can also transit Text and Image data in the P25 Trunking Radio system.)
- If people call 911, the 911 operators can do one-key operation to send text messages to dispatch centers through HTML or Email as they are keying in the information from people. Through the E&TC (Encoder & Dispatch Center) device installed in dispatch centers, the messages (address of the fire incident) from 911 centers and dispatch centers can be sent to the nearby fire stations. Fire stations can also call volunteers by text messages.
- When dispatch center call volunteers, voice messages and map having fire incident can be sent to voice pagers through Unication PS&DRT device. This method improves the speed of arriving the fire incident for volunteers.

■ Unication Voice Pager Specification & Function Description :

● G Series Voice Pager Overview :

● Top View



● Left Side View



● Front View



● Right Side View



A : Button			
A1	Channel Knob	A6	Back Key
A2	Power On/Off & Volume Knob	A7	Main Menu
A3	Play Key	A8	Reset Key
A4	Navigation Key	A9	Voice Memo Key
A5	Soft Key		

B : LED Indicator	
B1	Power LED Indicator
B2	Message LED Indicator

D : Port	
D1	USB Port

C : LCD Display	
C1	2" High Brightness Color Display

E : Sensor	
E1	Microphone

PART.D Specification and Function of G Series Voice Pager

Voice Pager Series			G2		G3		G4	G5	
Voice Pager Series Model Number			VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF
A Frequency and Mode of Device									
A1	Frequency Range	CH.1 (Monopole Antenna)	136 - 174 MHz	330 - 512 MHz	330 - 512 MHz	136 - 174 MHz	764 - 870 MHz	764 - 870 MHz	764 - 870 MHz
		CH.2 (Loop Antenna)	—	—	136 - 174 MHz	330 - 512 MHz	—	136 - 174 MHz	330 - 512 MHz
A2	The Setting of the Receiving Band Width		12.5kHz 25kHz 20kHz						
A3	Signal mode can be received	1. The analog and digital signal can be mix-used in the same time. 2. It can auto-detect the coming signal mode and the protocol, and intermodulate and decrypt based on the result. Users do not need to manually switch the channel.	●	●	●	●	●	●	●
A4	Message type can be received	1. Under the analog system, it is able to receive the voice, text and image message only in the protocol MDC 1200 and DVOA. 2. Under the digital system, it is able to receive the voice, text and image message in the protocol DMR, P25(C) and P25(T).	●	●	●	●	●	●	●
B Operational Environment of Radio Device									
B1	Operational Environment of Radio Device	● Range of Operating Temperature	-20 ~ +60 °C						
B2	Operational Environment of LCD Screen	● Range of Operating Temperature							
B3	Operational Environment of Battery	● Range of Operating Temperature	-20 ~ +60 °C						
B4	Waterproof Condition of the Equipment	●Water jets test: 6.3mm nozzle, the testing sample is 2.5 - 3m away from the nozzle, water volume is 12.5L/min (750L/h), test duration is 1 minute per square meter for at least 3 minutes.	IP X7						
B5	Dustproof Condition of the Equipment	●No ingress of dust under the low pressure of 20 mbar.	IP 6X						
B6	Explosion-Proof of the equipment	●UL	Class 1 Div II						
B7	Against Fall Condition of the Equipment	●Fall from the height 1.8m	●	●	●	●	●	●	●
B8	Safety Certification of the Equipment	●FCC	FCC Part K						
		●CE							

PART.D Specification and Function of G Series Voice Pager

■ Voice Pager Series		G2		G3		G4	G5			
■ Voice Pager Series Model Number		VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF		
C Hardware Specifications of Equipment										
C1	Appearance of Device	Please refer pager 5								
C2	Dimensions	Height (H) (mm)	102mm	102mm	102mm	102mm	102mm	102mm		
		Width (W) (mm)	61mm	61mm	61mm	61mm	61mm	61mm		
		Thick (T) (mm)	31.5mm	31.5mm	31.5mm	31.5mm	31.5mm	31.5mm		
C3	Texture	PPC14312 (Plastic) +TDV (Rubber)								
C4	Weight (Without Antenna and battery)	215g	224g	221g	223g	221g	223g	223g		
C5	Specification of Screen	320x240 65535Colors								
C6	Specification of Battery (Standard Accessory)	Li-Ion Battery	●	●	●	●	●	●	●	
		Capacity	2800 mAh	2800 mAh	2800 mAh					
		Max. Voltage	4.35 V	4.35 V	4.35 V					
		Normal Voltage Supply	3.80 Vdc	3.80 Vdc	3.80 Vdc					
		The battery usage of this model is calculated in accordance with international practices. Standby : Receive = 90:10 Usage is available over than 8 hours	●	●	●	●	●	●	●	●
C7	Hardware of user's operating interface	Power Switch and Volume Knob	●	●	●	●	●	●	●	
		Channel Knob *1 a. Switching of 8 channels in one zone b. Provide the 64 sending/receiving zone for users to set. c. The device can totally provide 512 receiving table for users to set.	●	●	●	●	●	●	●	●
		Quick button for the voice record play. a. When the user presses the button, it will activate the voice recording playing function. It will start playing from the latest recording and play a tone alert in the recording end to remind the user, then continuously play the next recording until all the recordings are played. b. Press the button during the process of the recording playing, it will stop the current recording and play the next recording.	●	●	●	●	●	●	●	●
		4-direction button (Up, Down, Left, Right) and confirmed button a. For the user shift the cursor on the screen and select the option.	●	●	●	●	●	●	●	●
			●	●	●	●	●	●	●	●

■ Voice Pager Series			G2		G3		G4	G5	
■ Voice Pager Series Model Number			VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF
C Hardware Specifications of Equipment									
C7	Hardware of user's operating interface	<p>Four dynamic function buttons</p> <p>a. It will dynamically assign four corresponding function items</p> <p>b. If the needed soft keys are more than four, the fourth soft key will turn into "→" (change the page). Press the "→" can switch the page and show the soft key in the second page.</p>	●	●	●	●	●	●	●
		<p>A Main Menu Key to quickly show the main function menu.</p> <p>a. Since there are multiple setting functions and several levels for each setting, this button helps the user can quickly alter the screen into the menu.</p>	●	●	●	●	●	●	●
		<p>A Back Key to shut down the currently using function and back to the last operational screen.</p> <p>a. Most of the function activation requires multiple operating screens of extracting parameters. The back key enables the user to back to previous screens of extracting parameters.</p> <p>b. When the function operating ends, the user can not only wait for the hang time and auto-back to the previous operating screen, but also manually press the back key to back to the previous screen.</p> <p>c. If the users would like to cancel the current function which is operating, they can press the back key to terminate and back to the previous operating screen.</p>	●	●	●	●	●	●	●
		<p>Quick button for quickly activate Voice Recording</p> <p>a. This button helps the user can more quickly activate the voice recording function.</p> <p>b. Press this button in the normal situation, the pager will immediately activate the Voice Memo function to start recording and turn on the speaker for recording the surrounding voice. (Press once to start recording, then press again to stop recording and auto-save the recording).</p>	●	●	●	●	●	●	●

PART.D Specification and Function of G Series Voice Pager

■ Voice Pager Series			G2		G3		G4	G5	
■ Voice Pager Series Model Number			VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF
C Hardware Specifications of Equipment									
C7	Hardware of user's operating interface	A Reset Key for the speaker on/off and the receiving mode switch a. To switch on/off the speaker during the receiving status, press once to switch off the speaker, and keep pressing to switch on the speaker. b. When the Push To Listen function is operated, the speaker will be turned on only by pressing the Reset Key. c. Switching current receiving mode with the operation of the Trunking Reset receiving mode.	●	●	●	●	●	●	●
D Features and Specifications of Voice Pager									
D1	Band Width	The band width can be set in each frequency: ·12.5KHz ·25KHz ·20KHz	12.5kHz 25kHz 20kHz						
D2	Frequency	The quantity of frequency that can be set depends on the number of bandwidths set. The quantity of frequency that can be set = frequency range ÷ band-width							
D3	RF Features	Sensitivity	-122 dBm						
		Sensitivity # TIA regulation (12dB SINAD / 5% BER)	7.98 μ V/M	6.4 μ V/M	14.2 μ V/M (VHF) 6.4 μ V/M (UHF)	14.2 μ V/M (VHF) 6.4 μ V/M (UHF)	4.02 μ V/M	8.79 μ V/M 4.02 μ V/M	7.06 μ V/M 4.02 μ V/M
		Frequency Stability	+1-1 ppm						
		Adjacent Channel Selectivity	760 dB						
		Intermodulation Rejection	> 65dB (Analog) > 60dB (Digital)	> 55dB (Analog) > 50dB (Digital)	> 65dB (Analog) > 60dB (Digital)	> 75dB (Analog) > 75dB (Digital)	> 65dB (Analog)	> 65dB (Analog)	> 65dB (Analog)
		Blocking	> 80dB						
		Spurious	> 70dB						
		Image Rejection	> 65dB (Analog) > 60dB (Digital)	> 60dB (Analog) > 55dB (Digital)	> 65dB (Analog) > 60dB (Digital)	> 60dB (Analog) > 55dB (Digital)	> 65dB (Analog) > 60dB (Digital)	> 65dB (Analog) > 60dB (Digital)	> 65dB (Analog) > 60dB (Digital)
		Audio Distortion	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%
		Speech SPL (at 12 inches)	96dB +3/-2dB						
Alert SPL (at 12 inches)	96dB +3/-2dB	96dB +3/-2dB	96dB +3/-2dB	96dB +3/-2dB	96dB +3/-2dB	96dB +3/-2dB	96dB +3/-2dB		

■ Voice Pager Series			G2		G3		G4	G5	
■ Voice Pager Series Model Number			VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF
E Function									
E1	Multiple certified standard protocols for users to select from.	1. Protocol in analog a. CTCSS / CDCSS b. 2 Tones / 5 Tones c. MDC 1200 d. Uni DVOA 2. Protocol in digital a. DMR b. P25 (C) 3. Protocol in trunking system a. P25 (T) / PHASE I b. P25 (T) / PHASE II	●	●	●	●	●	●	●
E2	Analog and digital signal mix-used	1. Automatically distinguish the coming signal mode (analog or digital) and protocol, then automatically turn on the corresponding module of demodulation and decoding. 2. Users can achieve this function without switching the channels.	●	●	●	●	●	●	●
E3	Voice / text / image receiving	1. Under the analog system, it is able to receive and send the text and image message only in the protocol MDC 1200 and Uni DVOA. 2. Under the digital signal system, both text and photo messages can be received and sent in DMR, P25(C), P25(T) / Phase#1 and P25(T) / Phase#2.	●	●	●	●	●	●	●
E4	Communication decryption (Fip #2 level)	1. Provide the AES 256 decryption to the voice, text and image receiving 2. Each TGID can be dependently set with the decryption key.	●	●	●	●	●	●	●
E5	Setting function of diversified receiving mode table	The voice pager is provided with 512 receiving table setting. Each receiving table (channel) can be set independently.	●	●	●	●	●	●	●
		1. Operating system can be set for: a. Talk Around Mode b. Conventional Mode c. Trunking Mode d. Scan Mode	●	●	●	●	●	●	●
		2. Receiving mode setting: a. When the working system setting of the specific channel is Convention or Talk Around, it can be set into the following receiving mode: a1. Single band and multiple receiving group a2. Multiple frequency (Assign a main frquency. Then, scan in the following way: Main→Sub1→Sub2→Main)	●	●	●	●	●	●	●

PART.D Specification and Function of G Series Voice Pager

■ Voice Pager Series		G2		G3		G4	G5	
■ Voice Pager Series Model Number		VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF
E Function								
E5	<p>Setting function of diversified receiving mode table</p> <p>b. Listening (Scanning) frequency and band width setting</p> <p>c. Listening (Scanning) frequency protocol setting (Digital and analog)</p> <p>d. Set multiple groups in each frequency. It is no need to set the group in the analog system since it can not be distinguish.</p> <p>e. Setting of encryption key for each group Each group can be set with the dependent encryption key (AES 256).</p> <p>f. Stay time when scanning It is necessary to set the stay time in each frequency when a specific channel is set as the multiple frequency scanning mode.</p> <p>If the specific frequency is set as the scanner, it can provide the function setting that scanning frequency range, frequency interval, multiple frequencies, stay time and the start-point of the multiple scanning zone altering.</p> <p>Note1 : It will use the auto-detect and auto-intermodulation to check the signal mode and protocol.</p> <p>Note2 : The radio can also manually adjust the function to provide better voice quality.</p>							
E6	<p>Remote use OTAP to set the receiving table</p> <p>The function is provided to the dispatch center or the commander who stays on-site can set the new receiving table to a specific group.</p>							
E7	<p>Handheld Radio Type of Operating Interface</p> <p>1. Four-direction button + confirmed button</p> <p>2. 4 dynamic function buttons, the function of these buttons will alter by operating the radio.</p> <p>3. Menu button and Home button</p> <p>4. Emergency call, when receiving a emergency call</p> <p>a. Beep an alert tone to inform the following voice call is emergency call.</p> <p>b. The screen will shows that which number or who makes the emergency call.</p> <p>c. The screen will show the map of the receiving side's radio location (set the receiving side as the center) and send out the radio's location by the emergency call.</p>							

■ Voice Pager Series			G2		G3		G4	G5	
■ Voice Pager Series Model Number			VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF
E Function									
E8	Voice Call Recording	<p>1. There is the call recording button on the case.</p> <p>2. When recording, the operating interface will show the image and time to inform the user current recording status.</p> <p>3. When recording, multiple calls will be combined into a recording file, named after the time, and saved into the call recording box.</p> <p>Note: The multiple calls are including the back and forth calls of the groups during the hang time.</p> <p>4. User can enter through the operation interface to enter the assign file for playing the voice or time zone playing function.</p>	●	●	●	●	●	●	●
E9	Unread Message Alert	<p>1. Although there is the alert tone beeped when the text, image and call alert received, the noise of the surroundings will cause the user do not aware of the message. Therefore, the radio is provided with the unread message alert.</p> <p>2. This function will beep the alert tone and flicker the indicator to remind the users of the unread message.</p>	●	●	●	●	●	●	●
E10	Unread Message Alert	<p>Since there are still some areas not in the coverage of radio site signal. When the pager carrier is in the area that is out of range, the device will alert and show the OOR status on the screen to remind users of this.</p> <p>Users can manually change or disable the function in the function menu.</p> <p>Note 1: It can be programmed in the PPS whether provide the options for users to manually enable or disable this function.</p>	●	●	●	●	●	●	●
E11	Battery Lifespan Aging Warning	<p>Since the Li-Battery used for the voice pager is a kind of consumable accessory, the physical phenomenon of the battery will be aged after used for a period of time. To prevent the aged battery shortens the standby time of device, users will be alerted by this function to remind of changing the battery, and avoid any bad impacts to the normal duty standby time.</p>	●	●	●	●	●	●	●

PART.D Specification and Function of G Series Voice Pager

■ Voice Pager Series			G2		G3		G4	G5	
■ Voice Pager Series Model Number			VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF
E Function									
E12	Universal Alert	<p>1. Users can rapidly switch the alert mode based on their current place (e.g. in a meeting, etc.).</p> <p>2. There are 4 types of alert modes, "Tone", "Vibrate", "Silent" and "Tone & Vibrate". When users switch to Vibrate and Silent mode, device will be alerted but the voice message will not be played after new call is received.</p>	●	●	●	●	●	●	●
E13	Duty On/ Off	Users can switch the current duty status between 3 modes which is Always ON / Always OFF in the function menu, or set as auto switch according to the preset duty time and device operation time.	●	●	●	●	●	●	●
E14	Forward ACK Message to PS&DRT System by connecting with BT 4.0 module and user's smartphone and. (This function can be only used in the model with BT 4.0.)	<p>1. Since traditional voice pager is a kind of one-way receiver. Dispatch Center has no way to know exactly how many volunteer firefighters have received the message, and count the number of volunteers that can join the mission. Therefore, Unciation offers this ACK Forwarding function.</p>	●	●	●	●	●	●	●
		<p>2. Users can pre-programm the content of Can message list used for Manual ACK when received message, and select the ACK message would like to reply to the dispatch whilst message received. The confirmed Receive ACK message will be forwarded to the PS&DRT System through the BT 4.0 module and the Internet of cellphone.</p>	●	●	●	●	●	●	●
		<p>3. After the pager confirms the receiving status, it will automatically start the connection of BT 4.0 module and cellphone, and froward the Receive ACK to PS&DRT System through the Internet of cellphone to confirm that the message is received.</p>	●	●	●	●	●	●	●

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E Function										
E15	Receive Revert mode: once receiving the broadcast from the assigned TGID, the voice pager will auto-switch into listening to the on-site TGID or radio.	Since most of the voice pager users are volunteer firefighter, they have to come to the dispatch center for the training before the mission. When the voice pager is received the mission informed message which is broadcasted by the dispatch center, users can reply the canned message to the PS&DRT system. If the users choose to take part in the mission, the voice pager will auto-switch the listening TGID list. Despite listening the original dispatch TGID, it can also listen to the on-site radio's TGID. Users do not need to manually switch the channel knob.	●	●	●	●	●	●	●	
E16	Alert Buffering	1. Since traditional voice pager provides receiving alert tone with the features of how to page call with Analog (2-Tone. Time duration of Tone B Transmission). Users are used to identify who is the target of the page or the mission type by different alert tone. However, none of the same signal features like Analog is working in the current digital paging system. In order to achieve the same Receive Alert function in the environment of digital system, Alert Buffering is provided.	●	●	●	●	●	●	●	
		2. When Alert Buffering is enabled, the pager will save the voice in the air temporarily whilst receiving, and turn on the speaker to play the corresponding Receive Alert tone first. The temporarily saved voice message will be played after the alert tone ends.	●	●	●	●	●	●	●	●
		3. If there are other voice calls received whilst playing the temporarily saved voice message, the unfinished voice messages will be terminated. There will be a short beep to alert the user and new voice message will be played.	●	●	●	●	●	●	●	●

PART.D Specification and Function of G Series Voice Pager

■ Voice Pager Series			G2		G3		G4	G5	
■ Voice Pager Series Model Number			VHF	UHF	V+U	U+V	700/800	700/800 + VHF	700/800 + UHF
E Function									
E17	Support Delay N Parameters Settings According to the System Structures of Different Dispatch Centers	To apply in different sending system of each dispatch center, such as 2-Tone over P25 (C) and P25(T), Unication provides the Delay N parameter. The main purpose is to solve the situation that there is a period of vancancy time after the system send out the P25 Talkgroup ID and then start broadcasting the mission. On the other hand, to accurate evaluate the same mission topic, the pager provides this paramete for user to self-adjust the length of the time according to the condition of system.	●	●	●	●	●	●	●
E18	Trunking Multi-Select Call	Supports dynamic combining temporary talk group in the control channel of the Trunking System according to the requirements of the dispatch missions for the dispatch center.	●	●	●	●	●	●	●



G-Series

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