

G4/G5 SERIES FAQ'S

WHAT DO THE G4/G5 DEVICES SUPPORT?

What systems do the G4 and G5 support?

The G4 supports multiple P25 systems, including Conventional, P25 Trunking, and P25 Conventional. The G5 supports everything the G4 supports in addition to 2 Tone, 5 Tone and MDC 1200 on either of its two bands.

They Support:

- Multiple IDs
- 2 Tone, 5 Tone and MDC 1200 (G5 Only)
- Site Trunking
- Full Spectrum Scan
- Linear Simulcast Modulation for Simulcast Applications
- Priority TGIDs
- Multi-select
- 800MHz, 20kHz channel spacing and 4kHz deviation for Direct mode communications

Do they work on a Phase II system?

The G4/5 are Phase I devices however, many Phase II systems support Phase I devices, please check with the System Administrator.

Can the G4/5 "scan" a defined trunking frequency (Example: 855.9875, 856.2625, 857.2625, 858.2625)? If so can you scan defined TALKGROUPS on those frequencies?

Yes, TGIDs are assigned along with the Control Channels and Site Information (site information is used to further validate that the pager is assigned to that site(s) in situations where Control Channels are reused in the network). The G4/5 can be pre-programmed with Control Channels and, when first turned on, will scan for the active Control Channel. Once it is on an active Control Channel it stays there until the Bit Error Rate exceeds a predetermined value.

Can the G5, in 2 Tone mode, replace my Minitor?

Absolutely. The G5 does everything the Minitor does and much, much more. The G5 supports many more RF Channels, with and without PL/DPL, and 2 Tone IDs than the Minitor. With an eight position Selector Knob switch one can configure the G5 for more configurations. And, being IP67 (water and dust proof) and designed for rugged Public Safety environments the G5 ensures reliable operation.

Will the G4/5 work on VHF or UHF Trunked Systems??

Yes, the receiver covers a fairly broad band that should cover the Control and Traffic Channel frequency range.

HOW DO THEY WORK?

How does the dispatch center send out the P25 page?

Sending the page is as simple as sending a 2 tone page. The Dispatcher will select the appropriate icon and when they send the page the system will send out the pre-programmed TGID. The Dispatcher can choose to send an Alerting tone like they do for portable radios or not. Once the TGID is sent the Dispatcher can begin sending the voice message.

How does the dispatch center activate pagers in the field?

The Administrator will "map" the TGIDs to select Sites or Simulcast Zones. The system then "Forces" the TGID(s) to "Critical Sites".

Does the dispatcher have to send an alert call the same way they would ping a portable radio?

They could or just let the G4 generate its internal Alerting tone (or wav file).

Does this unit require any changes to the communications center equipment?

If the Dispatch Center does not currently dispatch on the P25 system a P25 Control Station will be needed.

Does this unit require any changes to how they would dispatch incidents?

There may or may not be changes. If one already dispatches to P25 Group IDs (directed to Portables and Mobiles) then there probably will be no change required.

On an analog radio system we use an encoder to send tones over the radio frequency. In a digital system you have to send data to the pager. How are we sending data to the Pager?

The Dispatching Console, 2-way portable or Mobile sends the appropriate TGID to the G4/5. The G4/5 is monitoring the Control Channel and upon detection of a programmed TGID, it will go to the assigned Traffic Channel for the voice message.

Don't I need a Portable Radio that affiliates the assigned TGID in order to make the G4 work?

Although this is a good way to initially test the G4/5, in the final configuration the System will be programmed to "Force TGIDS to Critical Sites" thereby allowing the Dispatcher or a back-up Portable to send messages.

When should I consider purchasing the G5

If you know P25 Service will be available within the next 18 months.

If I want to continue to use the existing analog 2 tone network, but want to listen to select TGIDs on the P25 System

If your Mutual Aid relationships have migrated from analog to digital or they have stayed analog while you migrated to digital.

If you travel frequently and want to listen of local/regional systems

If you migrated to digital, but want to monitor analog transmissions (NOAA, etc.)

How does the G4/5 provide an alert tone??

The pager will decode the TGID and emit an alert tone (user programmable) while it stores the associated message on the assigned Traffic Channel. At the end of the alert tone duration (user programmable) the pager will play the stored voice message from the beginning.

Does the G4/5 Store all Messages?

The User determines which TGIDs' messages are to be stored. All stored messages are time and date stamped and stored in non-volatile memory. They can easily be retrieved by pressing the playback key button which plays stored messages on a last in/first out basis or by using the pager's menu to selectively find the time and day the message was received. Message memory is very large and if it nears getting full it will automatically purge the oldest read/unread messages to make room for new incoming messages.

Can stored messages be stored on one's computer?

Yes, we have a Message Backup/Manager Utility that allows one to download all stored messages to one's computer and sort them on a number of parameters.

We have UHF and VHF systems in our area, with the G5 supports these two bands??

At this time it does not. This is a feature under evaluation for a future release.

Do I have to send the pager back to the factory be updated if there is a software bug??

The G4/5 is a software defined radio and we offer periodic Software Update Utilities to our Dealer community to allow them to service their customers as expeditiously as possible.

Can we program our own pagers??

The mini-USB to USB cable that is used for charging the pager is also used for programming it. Pager programming software can be downloaded, at no charge, from our www.unicationsusa.com web site. In addition, we offer webinars on programming and the features of the G4/5 pagers and have You Tube training videos.

What kind of battery is used??

The G4/5 pagers come with a heavy duty Lithium Polymer 2800ma battery. The pager comes with a 2 amp, AC, charger and there are , off the shelf, 2 amp vehicular chargers that will allow one to trickle charge the pager will driving.

What kind of battery life can I expect??

Obviously it depends on the amount of traffic one is monitoring. We have Users getting in excess of 24 hours and heavy Users getting around 14-16 hours.

Do you offer a product that provides an audio output and relay closure for Fire Station use??

We have a Charger Amplifier option that, in addition to having an internal speaker for high noise environments and antenna for RF challenged area, offers a variety of outputs that can be used for external speaker and/or siren/lighting controls.

Do you have a drop-in charger?? Connecting the mini USB charging cable can be difficult in low light conditions.

We understand. The Charger Amplifier is a drop-in charger and we are looking at lower cost drop-in charger alternatives.

Do you have an earphone/speaker jack??

We have something better. Our pagers support Bluetooth connectivity allowing one a wirelessly connect to a Bluetooth earphone, speaker or one's vehicle's speakers. The Bluetooth capability also ensures we maintain our IP67 (water/dustproof) rating.

Many scanners do not work well in a simulcast environment, how does the G4/5 work??

Unication has considerable experience in designing products used in simulcast environments. The G4/5 pagers have not only passed our rigorous lab testing, but are also working on a number of P25 systems with simulcast zones.

With the G5 can you scan between a VHF analog and P25, 700/800/VHF, Trunking system??

One can use the 8 position selector knob switch to manually switch between systems. We are looking at providing an automatic scan feature in a future software update.

RELEASE & MODEL INFORMATION:

What Frequencies are available?

Unication has large and experienced Dealer base, please go to <http://www.unicationsusa.com/#!/dealer-locator/cksw> and we will provide you a list of dealer in your area.

MODELS	FREQUENCY RANGE
G4 P25 Voice Pager – 700-800MHz	763-776MHz, 851-870MHz
G5 Dual Band Voice Pager – VHF & 700-800MHz	VHF: 136-174MHz/ 763-776MHz, 851-870MHz
G5 Dual Band Voice Pager – UHF & 700-800MHz	UHF A: 330 – 400MHz/ 763-776MHz, 851-870MHz
	UHF B: 380 – 430MHz/ 763-776MHz, 851-870MHz
	UHF C: 400 – 470MHz/ 763-776MHz, 851-870MHz
	UHF D: 450 – 520MHz/ 763-776MHz, 851-870MHz