

# **RAMPART COUNTY REGIONAL DISPATCH SYSTEM**

## **Communications System**

All radios will be programmed the same way. RCRDS uses full digital 256 AES Encrypted Push To Talk over 4-5G LTE style radios. All of our radios have the following options:

Full Digital (Phase FDP28-Fully Digital Project 28) With The Option Of UHF Analog Operations. Analog Operations Are Offered In Some Models. Note: UHF Is Only Offered To Those Who Have A Current And Up To Date FCC License(s). Radios ordered With The UHF Option Must Show Proof Of Said FCC Licensing.

- Digital Conventional
- Digital Trunking
- MDC-Signaling
- PTT-ID
- Remote Stun/Kill
- Tone Paging
- High-Res Full Dot-Matrix LCD
- 3-position concentric PF switch
- 1024 bit RSA for authentication, digital signatures and secure media session keys exchange, 256 Bit AES for audio and call alerts.
- DTLS-Digital Trunking Logic System for control traffic encryption between the client and server
- OTAP-Over The Air Programming
- Immersion (IP66/67)
- Intrinsically Safe
- Dual Sim Card Slots Provide The User With Options Of redundancy In The Event Of A Network Failure Or Gride Down Situation, Our Radios Will Automatically Switch Towers/Network To The Best 4G/5G Or Satellite Network That Is Available.
- Group Call, All Call, Private Call, Alerting
- Smart Text Messaging
- Phone Call Patching
- Emergency Man Down button/ Emergency Panic Button
- Voice Recording And Playback
- GPS positioning
- Geo Fencing
- Smart Mapping
- Battery Alert Notifications
- Ruggedized TouchScreen
- And More

This system incorporates complete management of your staff or employees.

Below is a list of channels, and how our system is set up. All radios are connected by radio over 4G/5G LTE cellular networks or ROIP-Radio Over Internet Protocols. We use bridges to allow all radio types or systems to communicate or connect with our network over the cellular network. We have 2 backup systems as fail safes for full grid or network down situations. This allows us to communicate no matter where our staff or unit(s) are located. I.E. in or outside of the State of Arizona. Using this extremely cost effective method, we no longer have to have high power antennas or repeaters like conventional radio systems deployed on high mountain tops. This lowers radio frequency emissions and helps the environment, the safety of our clients, and communities we contract with.

#### RAMPART COUNTY REGIONAL DISPATCH CENTER CHANNEL LIST.

##### ALPHA DECK

A-1 FIRE DISPATCH ( ENCRYPTED )

A-2 EMERGENCY TRAFFIC ( ENCRYPTED )

A-3 MARICOPA COUNTY FDCOM 3 ( ENCRYPTED )

A-4 AZ OUTER AREAS FDCOM 2 ( ENCRYPTED )

A-5 OUTSIDE OF AZ FDCOM 1 ( ENCRYPTED )

A-6 OUTSIDE OF AZ FIRECOM 2 ( ENCRYPTED )

A-7 MAJOR INCIDENT 1 ( ENCRYPTED )

A-8 MAJOR INCIDENT 2 ( ENCRYPTED )

A-9 AIR/DRONE OPERATIONS ( ENCRYPTED )

A-10 EVENT 1 ( ENCRYPTED )

A-11 EVENT 2 ( ENCRYPTED )

A-12 EVENT 3 ( ENCRYPTED )

A-13 AZ COMS WITH OUTSIDE AGENCIES ( ENCRYPTED )

A-14 OUTSIDE STATE AGENCY COMS ( ENCRYPTED )

A-15 SPECIAL ALERT CENTER COMS ( ENCRYPTED )

BRAVO DECK IS FOR PUBLIC SAFETY COMMUNICATION NETWORK USE

B-1 RCPS D1 MAIN. ( ENCRYPTED )

B-2 RCPS D2 SECONDARY DISPATCH ( ENCRYPTED )

B-3 RCPS INFO ( ENCRYPTED )

B-4 RCPS CHACE ( ENCRYPTED )

B-5 RCPS CAR 2 CAR ( ENCRYPTED )

B-6 RCPS INVESTIGATIONS ( ENCRYPTED )

B-7 RCPS SUPERVISORS ( ENCRYPTED )

B-8 RCPS TACTICAL OPERATIONS ( ENCRYPTED )

B-9 RCPS OUTSIDE AGENCIES COMS ( ENCRYPTED )

B-10 RCPS AIR/DRONE OPERATIONS ( ENCRYPTED )

B-11 RCPS EVENT

B-12 RCPS SPECIAL DETAIL ( ENCRYPTED )

B-13 RCPS TRAINING 1 ( ENCRYPTED )

B-14 RCPS TRAINING 2 ( ENCRYPTED )

B-15 RCPS TRAINING 3 ( ENCRYPTED )

CHARLY DECK IS FOR FIRE TRAINING/DISPATCH TRAINING

DELTA, ECHO, FOXTROT, GOLF, HOTEL, ECT DECKS ARE FOR FUTURE UPGRADES BUT NOT YET ASSIGNED.

STATION ALERTING SYSTEM FOR FIRE STATIONS AND ON CALL PERSONNEL.

We, like all other Fire Departments, have a station alerting system. This system is state of the art. Our crews can log in to the system they want to hear. Each station has a dedicated radio channel that will activate the station alerting system. This allows the first responders a less stressful way to be woken up in the middle of the night. We also have mini systems that our volunteers who may be responding to a station or designated meet up spot have the ability to only be alerted if the dispatcher sends a special alert to said persons systems or cellular device.

Our station alerting systems have flashing emergency led lighting as well as soft steady red lighting that stays on for a specific time period before it resets itself. Audible sound will play with a pre programmed message when the system is activated. For example if the system is activated for a fire call it will say fire call please see mobile data computer for details. Then a timer will start till it hits 60 seconds. That is called a turnout timer.

Our off grid systems and protocols are automatically implemented the moment any of our primary systems shuts down.

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