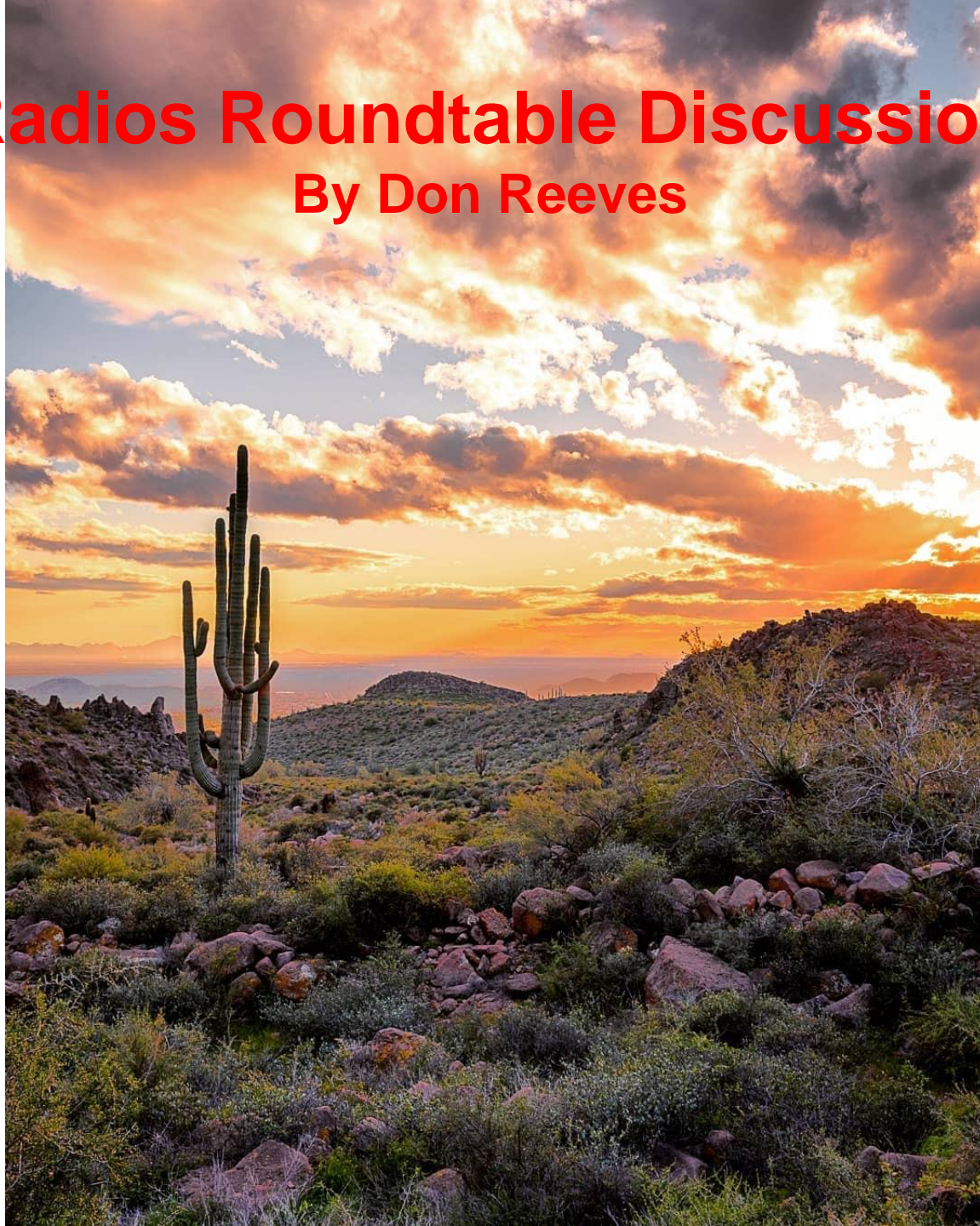


Trail Talk Presentation by Don Reeves

Radios Roundtable Discussion

Radios Roundtable Discussion

By Don Reeves



A Primer on UTV/ATV Radios – An Introduction to Communication Options

Don Reeves – any misstatements herein are mine, and mine alone
March 27, 2019

- I. Radios add to the safety of riders and increase the enjoyment of the ride by allowing participants to communicate without needing to stop. I ask all my riders to carry a walkie talkie radio on every adventure.
 - A. Allows quick communication regarding break downs, trail hazards, oncoming traffic, riders separated from the pack, and general calls for assistance with flats or other buggy issues
 - B. Allows for rider notifications about terrain, animal sightings, history of sites, upcoming ride breaks, and other issues

- II. **Two primary (major) wave lengths** (distribute hand-outs)
 - A. VHF – Very High Frequency**
 - B. UHF – Ultra High Frequency**

A Primer on UTV/ATV Radios – An Introduction to Communication Options

A. VHF – Very High Frequency

1. Except for Marine Bands, the FCC generally requires a license to transmit on VHF. One can listen without a license.
2. Please, **never** transmit on the Race Team frequencies shown on the frequency handout from Rugged Radios.
3. Frequency range is 30 MHz to 300 MHz.
4. In marine applications, due to line of sight transmissions, the range of a 25-watt VHF radio in the open sea is 60 miles, for a tall ship. A small boat would transmit about 5 miles.
5. This band is the best for wide open areas as it has a longer wave length which gives a transmission longer distance. This band is commonly used in the Phoenix & Quartzsite areas. I have added several frequencies to the printed list for inclusion on your radios. These specific frequencies include Joe Osuch (VHF), the Bouse Ghost Riders (VHF), the Quartzsite Sun Riders (UHF) and the AZ State Parks & Trails (UHF).
6. **VHF is not available on walkie talkie radios**

A Primer on UTV/ATV Radios – An Introduction to Communication Options

B. UHF – Ultra High Frequency

1. Frequency range is 300 MHz to 3,000 MHz. All walkie talkies use this wave length.
2. Better for in building penetration and forested canyon areas. The band is higher energy but travels less distance
3. Used by Flagstaff riders and my west Phoenix group due to the ability to communicate with all my riders who all own walkie talkie radios.

A Primer on UTV/ATV Radios – An Introduction to Communication Options

- III. **Walkie talkie radios** typically work in the **FRS/GMRS frequency range**. Their range can be just a few hundred yards in hilly mountainous terrain to over 30 miles as in from a hilltop to the valley below. Generally, the transmission range is less than a half mile. I recommend purchasing **GMRS capable radios** for their 5 watts of power (= more distance).
- A. FRS (Family Radio Service)** radios are now limited to a maximum of 2 watts of power (formerly 5 watts for combo FRS and GMRS radios) and have 22 channels available. This FRS designation was proposed by Radio Shack in 1994 to enable consumers to communicate at very low power amongst themselves without needing a license. FCC legal FRS radios have a fixed permanent antenna. **A license is not required by the FCC to operate in this band.**
- B. GMRS (General Mobile Radio Service)** Any walkie talkie radio exceeding 2 watts of power is classified as a GMRS radio. GMRS radios require a license and have 30 total channels. The FCC license is simple to get (as in no test) and costs \$70.00 for 10 years for a family. This band allows for 50 watts of power for frequencies between channels 15 and 22 (which are shared with FRS). External antennas are permitted on GMRS radios. See hand out courtesy of Russ Bell. Caution, GMRS radios are still limited to .5 watt of power on channels 8 through 14.



Roll over image to zoom in

Midland - GXT1030VP4, 50 Channel GMRS Two-Way Radio - Up to 36 Mile Range Walkie Talkie, 142 Privacy Codes, Waterproof, NOAA Weather Scan + Alert (Pair Pack) (Black/Yellow)

by Midland

★★★★☆ 3,923 customer reviews | 977 answered questions

Price: **\$69.99** & **FREE Shipping**. [Details](#)

Get \$50 off instantly: Pay \$19.99 upon approval for the Amazon Rewards Visa Card.

prime | Try Fast, Free Shipping

Style: **Pair Pack - Black/Yellow**

3 Pack - Black/Silver \$99.99	Pair Pack - Black/Mossy Oak Camo \$73.72
Pair Pack - Black/Silver \$69.99	Pair Pack - Black/Yellow \$69.99
Single Pack - Black/Silver \$39.99	

- **2-WAY RADIOS** - These walkie-talkies feature 50 GMRS (General Mobile Radio Service) channels, along with channel scan to check for activity. The JIS4 Waterproof Protection prevents splashing water from having any harmful effect on it (splash resistant).
- **36-MILE RANGE** - Longer range communication in open areas with little or no obstruction. Easy Voice and Sound Activation Transmission (eVOX) with 9 sensitivity levels for hands-free operation.
- **142 CTCSS/DCS PRIVACY CODES** - The privacy codes give you up to 3,124 channel options to block other conversations.
- **NOAA WEATHER SCAN + ALERT** - NOAA Weather Scan will automatically scan through 10 available weather (WX) band channels and locks onto the strongest weather channel to alert you of severe weather updates. NOAA Weather Alert will sound an alarm indicating that there is a risk of severe weather in your area.
- **INCLUDED IN THE BOX:** Radios (x2), rechargeable battery packs (x2), boom mic headset

A Primer on UTV/ATV Radios – An Introduction to Communication Options

IV. Walkie Talkie Radios – GMRS/FRS

- A. Generic radios – Midland, Dewalt, Cobra, and Motorola
- B. Vendors for radios – Costco, Sam’s Club, Amazon, Best Buy, Home Depot
- C. Preprogrammed so the radio can immediately work right out of the blister pack
- D. Be sure an FRS only radio is capable of at least the new 2 watts of maximum power. Some radios may only allow 1 watt of power. The best trail option in this category is a GMRS capable radio with 5 watts of power.
- E. Consider purchasing an accessory known as a hand-held PTT (push to talk) microphone/speaker from Amazon or the manufacturer. Be sure it is compatible with your specific radio. This add on allows much quicker, and better use of the radio
- F. Set of 2 radios runs between \$50 to \$100. Having a spare radio in your rig is smart in the event of a radio malfunction or battery failure. Midland GTX models are a good option for a walkie talkie.
- G. **VOX** is the acronym for **voice activated transmission**, hands free

A Primer on UTV/ATV Radios – An Introduction to Communication Options

V. Rugged Radio hand held RH-5R & RH5X

A. **Not** a walkie talkie

B. VHF and UHF dual band radio with 5 watts of power

C. **This radio cannot be used without being programmed!** As of 1/1/2019, Rugged Radio told me they can no longer program these radios. The consumer must contact a knowledgeable person of how to program the radio before it will be of any use to you. The radio can be cloned by another Rugged or Baofeng radio owner if they have the appropriate cloning cable and know what they are doing. If you are ambitious, you can secure the B-Tech (most used) CHIRP cable including the software for around \$20 and do the programming yourself.... good luck.

D. Club member **Jerry Klingensmith** owns a handheld Rugged radio with the necessary cloning cable allowing him to program your radio in literally seconds. Jerry is an advanced rider and is very willing to help you get your handheld radio working on the frequently used VHF & UHF channels.

E. Again, consider purchasing the hand-held speaker/microphone PTT accessory (clip mine to my chest pocket or seat belt for easy access). Other accessories include a bag to protect the radio, a mount to install in your rig to hold the radio, and a long-range dual band antenna which is longer than the one with the radio but does increase your radio's territory coverage.

- Complete Systems**
- 2 & 4 Person Systems
 - Complete Kits w/Radio
 - Fire / Safety Kits
 - Marine Kits
 - Moto / ATV Kits
 - NASCAR / IMSA Kits
 - Rally Racing / Peltor
 - Short Course Kits
 - Single Seat Kits
 - Snowmobile Kits
- Products**
- Antennas
 - Apparel, Swag, Stickers
 - Bags
 - Base/Chase Radio Kits
 - Cables
 - Catheters
 - Clearance
 - Crew Chief / Co-Driver
 - Ear Bud & Speakers
 - External Speakers
 - Gift Cards
 - GPS Units
 - Harnesses
 - Headset Accessories
 - Headsets
 - Helmet Kits
 - Helmets & Accessories
 - Industrial
 - Intercom Kits
 - Intercoms/Accessories
 - Jeep
 - Lapel Mics & Ear Molds
 - Moto / ATV Kits

Home :: Radios / Radio Kits :: RH-5R UHF/VHF Handheld :: RH-5R Radios :: RH-5R Rugged Radios 5-Watt Dual Band (VHF/UHF) Handheld Radio

prev [return to product list](#) next

Retail Price: \$85.00

RH-5R Rugged Radios 5-Watt Dual Band (VHF/UHF) Handheld Radio

Part #RH5R-V2



The Rugged Radios RH-5R dual band (VHF/UHF) Handheld Radio boasts powerful 5 watts of performance in a compact unit that packs a long list of features! The RH-5R can operate on both VHF and UHF bands making it do the job of two radios in one! This

versatility makes it your "go to" radio for everything you need!

Features :

- VHF/UHF frequency operation
- Dual band (VHF/UHF)
- 5 watts of power
- High capacity lithium-ion battery
- FM radio
- Emergency alarm function
- Dual watch / Dual reception
- Display illumination
- Battery "save" function
- Selectable scan mode
- Works with #CJ-KEN jumper
- Works with #CC-KEN coil cord

Includes :

- Handheld radio
- Antenna
- Battery
- Belt clip



RACE TO RUGGED

TECH TIP

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NEW

CAN-AM MAVERICK™ X3
 DEFIANT. PRECISE. POWERFUL
 WITH EXCLUSIVE
 PERFORMANCE-ORIENTED
 RUGGED RADIOS ACCESSORIES



Roll over image to zoom in

BTECH PC03 FTDI Genuine USB Programming Cable for BTECH, BaoFeng, Kenwood, and AnyTone Radio

by BTECH

★★★★☆ 2,602 customer reviews | 225 answered questions

Amazon's Choice for "chirp cable baofeng"

Price: **\$20.46** & **FREE Shipping** on orders over \$25 shipped by Amazon.
[Details](#)

Get \$50 off instantly: Pay \$0.00 upon approval for the Amazon Rewards Visa Card.

✓ **prime** | Try Fast, Free Shipping

- Genuine FTDI USB Programming Cable (Only Sold by BaoFengTech - insure BaoFengTech is your selected distributor to guarantee accuracy in receiving what is described)
- No Driver Issues - No old drivers needed - Plug and Play
- Unlike the common "clone" USB programming Cables available Amazon - These cables just work!
- Works with BaoFeng's Latest Radios: UV-5X3, BF-F8HP, and UV-82HP
- Helpful BaoFeng Guides and Programming Tips at Miklor.com

[Compare with similar items](#)

New (1) from **\$20.46** & **FREE shipping** on orders over \$25.00 shipped by Amazon. [Details](#)

[Report incorrect product information.](#)



BaoFeng BF-F8HP (UV-5R 3rd Gen) 8-Watt Dual Band Two-Way Radio (136-174Mhz VHF & 400-520Mhz UHF)...

★★★★☆ 3299
\$62.89 ✓ **prime**

A Primer on UTV/ATV Radios – An Introduction to Communication Options

VI. Rugged Radio – UHF or VHF Mobile Radio (not a hand held)

- A. Rugged does not sell a dual band mobile radio. Nor does PCI. They claim there is not a good quality radio that works in both bands. I also believe the FCC has “influenced” their decision to not offer a dual band radio.
- B. VHF – RM-60V radio is 60 watts but again, **the radio must be programmed before you can use the radio.** Rugged no longer provides this programming service.
- C. UHF - RM-45U is a 45-watt radio but must be programmed by someone other than Rugged to use the radio.
- D. I was told by Rugged **their radios can no longer be field programmed** for a frequency without a laptop computer and the necessary software.

Home :: Radios / Radio Kits :: Mobile Radios :: RM-60 VHF 60-Watt Mobile Radio

Retail Price: \$325.00

- Complete Systems**
- 2 & 4 Person Systems
- Complete Kits w/Radio
- Fire / Safety Kits
- Marine Kits
- Moto / ATV Kits
- NASCAR / IMSA Kits
- Rally Racing / Peltor
- Short Course Kits
- Single Seat Kits
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- External Speakers
- Gift Cards
- GPS Units
- Harnesses
- Headset Accessories
- Headsets
- Helmet Kits
- Helmets & Accessories
- Industrial
- Intercom Kits
- Intercoms/Accessories
- Jeep
- Lapel Mics & Ear Molds
- Moto / ATV Kits

RM-60 VHF 60-Watt Mobile Radio

Part #RM60-V

With 20% more power than the VX2200, the RM-60 VHF Radio packs 60 watts of power for maximum performance and distance. In addition to the long range capabilities, the RM-60 offers incredible features making it the new leader in VHF radio communications.

Simple operation and an uncluttered face makes the RM-60 easy to operate. With 5 front facing buttons, the RM-60 is easy to adjust functions. A loud top speaker provides clear communications and remains on even when connected to an [intercom](#).

The RM-60 has more features than you'll probably ever need, but all these options are what makes the RM-60 such a strong and versatile 2-way mobile radio.

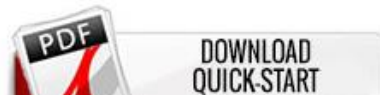
Whether you're prerunning the next desert race, or exploring the Dunes in Glamis, the new RM-60 Radio is the perfect choice to stay in contact with friends and family. Work, Race, Play... Rugged Radios is the Authority in Communications!

Frequency Range:

- VHF

Features:

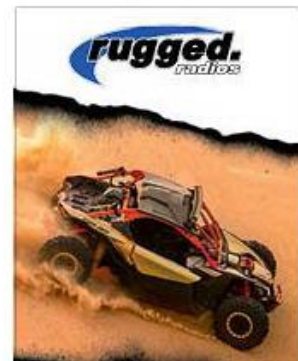
- Powerful 60 watts of power
- 20-30 mile range
- [DCS/CTCSS](#) tone code capable
- Channel scan
- Adjustable [squelch](#)
- Channel edit
- Tone code scan



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NEW

CAN-AM MAVERICK™ X3

DEFIANT, PRECISE, POWERFUL WITH EXCLUSIVE PERFORMANCE-ORIENTED RUGGED RADIOS ACCESSORIES

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 - Crew Chief / Co-Driver
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Retail Price: \$325.00

RM-45 UHF 45-Watt Mobile Radio

Part #RM45-U

The RM-45 UHF Radio packs 45 watts of power for maximum performance and distance. In addition to range, the RM-45 offers incredible features making it the new leader in UHF radio communications.

Simple operation and an uncluttered face makes the RM-45 easy to operate. With 5 front facing buttons, the RM-45 is easy to adjust functions.

The RM-45 has more features than you'll probably ever need, but all these options are what makes the RM-45 such a strong and versatile 2-way mobile radio.

Frequency Range:

- UHF frequency

Features:

- Powerful 45 watts of power
- 20~30 mile range
- DCS/CTCSS tone code capable
- Channel scan
- Adjustable squelch
- Channel edit
- Tone code scan
- Adjustable power level
- Vehicle voltage indicator
- Time-out timer
- Busy channel lockout
- more...

Dimensions:

- 5.5"W x 7.5"D x 1.5"T

Includes:



click for super view



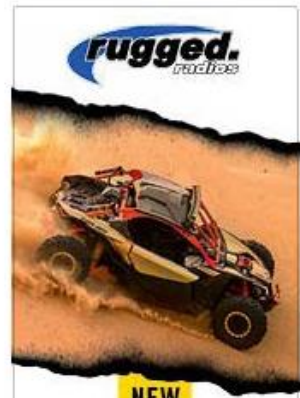
PDF DOWNLOAD RM45



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NEW

CAN-AM MAVERICK™ X3

DEFIANT. PRECISE. POWERFUL WITH EXCLUSIVE PERFORMANCE-ORIENTED RUGGED RADIOS ACCESSORIES

A Primer on UTV/ATV Radios – An Introduction to Communication Options

VII. Baofeng – BF-F8HP – a hand held radio (NOT a walkie talkie)

- A. Dual band hand held radio (VHF and UHF frequencies) with up to **8 watts** of power and a larger battery than a walkie talkie. It costs \$63.00 on Amazon – see slide.
- B. Must be programmed before using. Talk with Jerry or another knowledgeable radio geek.
- C. Be careful.... this radio is not FCC approved as it exceeds power limitations, etc. and is considered a “ham” radio. To be legal, you must comply with the various licensing requirements when using this radio. The radio is Chinese made and with their disregard of FCC rules, a non-compliant radio. Not sure how much longer they will be available on Amazon.
- D. I am not sure, but the radio may still be field programmable. In other words, you can punch in a specific frequency when on a ride, without a laptop.
- E. This radio may be outlawed by the FCC yet this year. A smart rider might want to own a couple of these radios before they are no longer available.



Roll over image to zoom in

BaoFeng BF-F8HP (UV-5R 3rd Gen) 8-Watt Dual Band Two-Way Radio (136-174Mhz VHF & 400-520Mhz UHF) Includes Full Kit

by BaoFeng

★★★★☆ 3,299 customer reviews | 877 answered questions

Amazon's Choice for "baofeng bf-f8hp"

Price: **\$62.89** & **FREE Shipping**. [Details](#)

Get \$50 off instantly: Pay \$12.89 upon approval for the Amazon Rewards Visa Card.

prime | Try Fast, Free Shipping

- Upgrades from our Previous Generation UV-5R: Twice the Output Power (8 watts up from 4 watts output), New Hardened Durable Radio Shell, 30% Larger Battery, V-85 High Gain Antenna (Twice the Antenna Performance), USA Support + In-depth User Guide Included
- High / Med / Low Power Settings (8W, 4W, 1W); Frequency Range: 65-108 MHz(Only commercial FM radio reception) VHF: 136-174 MHz(Rx/Tx). UHF: 400-520 MHz(Rx/Tx); Broad (Wide) / Narrowband (Narrow) Selectable
- The BF-F8HP was designed in the USA and because not everyone is a radio-expert we really wanted to focus on providing an easier user experience! That starts with the new in-depth manual that guides you through the capabilities and customization of the BF-F8HP. On top of that the BF-F8HP also includes exclusive concierge customer help and warranty support. This concierge service is only available on select BaoFeng models such as the BF-F8HP, UV-82HP, and UV-5X3.
- A PC03 FTDI Programming Cable is Recommended for Easier PC Programming
- BaoFeng Tech is the only authorized USA BaoFeng Distributor to honor the Manufacturer Warranty. Only BaoFeng Tech offers warranty claims without shipping anything to China. You must insure that BaoFeng Tech is your selected buying option when buying to be able to have the full USA warranty.

[Compare with similar items](#)

A Primer on UTV/ATV Radios – An Introduction to Communication Options

VIII. My current radio set up

- A. Due to my group of riders all using walkie talkie radios (UHF only) in their rigs, I opted for a Rugged Radio RM-45U (UHF only) with an intercom system and a dual band antenna. One may wonder why a dual band antenna with a UHF mobile radio; I have jumper cables to connect my Baofeng BF-F8HP radio to my intercom and dual band antenna to convert my set up to VHF if I am on a ride where VHF is being used to communicate.
 - B. While I believe Gary Hornsby to be the best mechanic in the Valley, Gary admittedly acknowledges that programming a radio is not one of his skills. Gary will expertly install a radio, intercom and antenna in your rig, but to get the radio to work, you will have to program the radio yourself or find someone to do it for you. I decided to use Dan Hurn, owner of SinFab (Sinister Fabrication) located at 23639 N 35th Dr in Glendale for my radio install. Dan is a Rugged Radio dealer and as part of the install, will program the frequencies you want into your radio.
- IX. The **Spot** or the **Garmin In-Reach** satellite communicator is a worthy addition to your rig for emergency situations when your mobile telephone is out of range for cell reception and you are unable to raise any listeners on your VHF/UHF radio.



Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: REEVES JR, DONALD A

REEVES JR, DONALD A
17319 W MONARCH WAY
SURPRISE, AZ 85387-7545

FCC Registration Number (FRN): 0026302737

Call Sign	File Number	Radio Service	
WQYY390	0007679117	ZA - General Mobile Radio (GMRS)	
Grant Date	Effective Date	Print Date	Expiration Date
03-01-2017	03-01-2017	03-01-2017	03-01-2022

Waivers/Conditions:

Effective 2/16/99 the GMRS rules have been amended and you may operate on any of the primary or interstitial channels shown in section 95.29. Exception: Licensees who operate North of Line A and East of Line C may not operate on channels 462.650 MHZ, 467.650 MHZ, 462.700 MHZ and 467.700 MHZ unless your previous license authorized such operations.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Channels to Frequency Chart

Source: <https://www.ruggedradios.com/PDF/Frequencies/Frequency-RH7X.pdf>

updated July 19, 2018

RH-5R | RH5X 5-Watt Handheld Radios **COMMON CHANNELS**

Content provided is included for the sole purpose of providing educational information on a passive basis. Frequencies shown have been compiled from various sources. It is the end user's responsibility to observe FCC regulations for proper use and programming of any radio frequency.



RH-5R





RH5X

Channel	Name	Frequency	Tone
1	WTHRMN	151.625	
2	BFGRLY	151.715	
3	BAIAPTS	154.980	
4	NETWORK	151.685	
5	CHECKRS	151.925	
6	FAIR	150.860	
7	YOKOHAM	153.110	
8	RUGGED RELAY	152.960	
9	CHKRS 2	151.505	
10	BFGPITS	153.395	
11	MAG 7	153.380	
12	RESCUE	155.160	
13	CORE	153.245	
14	PRIVATE	156.675	DCS 023N
15	SANDLMO	152.510	
16	PCI RLY	154.515	
17	BITD	151.490	
18	KOH 1	157.450	
19	GMRS 1	462.5625	
20	GMRS 2	462.5875	
21	GMRS 3	462.6125	
22	GMRS 4	462.6375	
23	GMRS 5	462.6625	
24	GMRS 6	462.6875	
25	GMRS 7	462.7125	
26	GMRS 8	462.550	
27	GMRS 9	462.575	
28	GMRS 10	462.600	
29	GMRS 11	462.625	
30	GMRS 12	462.650	
31	GMRS 13	462.675	
32	GMRS 14	462.700	
33	GMRS 15	462.725	
34	GMRS 16	462.750	
35	WX 1	162.550	
36	WX 2	162.400	
37	WX 3	162.475	
38	WX 4	162.425	
39	WX 5	162.450	
40	WX 6	162.500	
41	WX 7	162.525	

Have confidence communicating knowing that your BaoFeng Tech radio is back with our concierge service and support - available on all radios and accessories from BaoFengTech. Purchase direct, through BaoFengTech on Amazon, or from an authorized BaoFengTech distributor. We take pride in what we sell, we know our products, and we are licensed radio operators. We don't just produce radios, but we believe in and use our radios!



Model	Type of Radio	Primary User	Frequency Range	Additional Options	PTT Style	Speaker Size	Display	Channels	Latest Firmware (05/2017)	License Information	Power Output	Power
BaoFeng Tech Handhelds												
BF-781P	Amateur Radio	Consumer Enthusiast	+ 136-174MHz + 403-520MHz + 05-108MHz RX Only (FM Radio)	+ High Power Dual Band + In-Depth User Guide + Custom 2100mAh Battery + Includes V85 High Gain Antenna + Custom BF-781P Firmware + BaoFeng Tech Concierge Support (and Warranty)	+ Single	700mW	Tn-Color	128	NR-340B	Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	8W Output VHF Peak 7W Output UHF Peak	2100mAh Capacity BL-5 Battery Style CH-3 Charger Style
UV-5XX	Amateur Radio	Consumer Enthusiast	+ 136-174MHz + 220-225MHz + 403-520MHz + 05-108MHz RX Only (FM Radio)	+ Tri-Band Frequency Support + Scan Frequency by Range + Add/Remove Scanning Channels by Menu + DTMF Remote Commands (Stun, Revive, Kill) + Synchronize display mode (Name & Frequency Display) + Includes V85 Dual Band & Custom V85 220MHz Antenna + Programming, Menu, Reset Lock-out + BaoFeng Tech Concierge Support (and Warranty)	+ Single	1000mW	Tn-Color	128	UVV306	Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	5W Output VHF Peak 4W Output 1.25M Peak 4W Output UHF Peak	1500mAh Capacity BL-5 Battery Style CH-3 Charger Style
GMRS-R1	Public Radio Personal Radio	Family Business Consumer Enthusiast	+ 15 GMRS Two-Way Channels + 3 GMRS Repeater Channels + 136-174MHz RX Only + 403-520MHz RX Only + 05-108MHz RX Only (FM Radio)	+ GMRS Radio + Supports GMRS Private Repeaters + Add/Remove Scanning Channels by Menu + Toggle Dual or Single PTT Buttons by Menu + Synchronize display mode (Name & Frequency Display) + Includes V85 High Gain Antenna + BaoFeng Tech Concierge Support (and Warranty)	+ Single + Dual	1000mW	Tn-Color	23 GMRS 105 Scanner	US3411 (USG2411)	GMRS Family License (Easy Application) GMRS Business License (Easy Application) No License to Receive FCC Part 95A & Part 15B Usage	5W Output UHF Peak	1800mAh Capacity BL-5 Battery Style CH-3 Charger Style
UV-43HP	Amateur Radio	Consumer Enthusiast	+ 136-174MHz + 403-520MHz + 05-108MHz RX Only (FM Radio)	+ High Power Dual Band + In-Depth User Guide + 4 Tone Burst Settings by Menu + Programming, Menu, Reset Lock-out + Includes V85 Dual Band Antenna + BaoFeng Tech Concierge Support (and Warranty)	+ Single + Dual	1000mW	Tn-Color	128	N62-D (US2535)	Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	8W Output VHF Peak 7W Output UHF Peak	1800mAh Capacity BL-5 Battery Style CH-3 Charger Style
UV-43C	Commercial Radio Amateur Radio	Professional Business	+ 136-174MHz + 403-520MHz + 05-108MHz RX Only (FM Radio)	+ Commercial, Public Safety, Business Dual Band + Field Programming Lock-Out + Programming, Menu, Reset Lock-out + Field Cloneable - with K2 Cloning Cable + Includes V85 High Gain Antenna + BaoFeng Tech Concierge Support (and Warranty)	+ Single + Dual	1000mW	Tn-Color	128	US2525 (US2525)	LMR Commercial License (Private Business) LMR Public Safety License Amateur Individual License No License to Receive FCC Part 90, Part 97, & Part 15B Usage	5W Output VHF Peak 5W Output UHF Peak	1800mAh Capacity BL-5 Battery Style CH-3 Charger Style
Discontinued from our Inventory												
UV-5R	Amateur Radio	Consumer Enthusiast	+ 136-174MHz + 403-520MHz + 05-108MHz RX Only (FM Radio)	UV-5RA *Not compatible with UV-5R battery & battery accessories UV-5R02+ UV-5R2 *Not compatible with UV-5R battery & battery accessories UV-5R Plus UV-5RE	+ Single	700mW	Tn-Color	128		Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	4W Output VHF Peak 4W Output UHF Peak	1500mAh Capacity
BF-78+	Amateur Radio	Consumer Enthusiast	+ 136-174MHz + 403-520MHz + 05-108MHz RX Only (FM Radio)	9875 *Not compatible with UV-5R battery & battery accessories G7-3 MK II *Not compatible with UV-5R battery & battery accessories	+ Single	700mW	Inverted Single Color	128		Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	4W Output VHF Peak 4W Output UHF Peak	1500mAh Capacity
UV-42	Amateur Radio	Consumer Enthusiast	+ 136-174MHz + 403-520MHz + 05-108MHz RX Only (FM Radio)	UV-42L UV-42X (VHF/G20MHz Edition)	+ Dual Only	1000mW	Tn-Color	128		Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	5W Output VHF Peak 4W Output UHF Peak	1800mAh Capacity
BF-400S	Amateur Radio	Consumer Enthusiast	+ 403-490MHz + 05-108MHz RX Only (FM Radio)	G7-1 BF-777S	+ Single	700mW	No Display	90		Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	2W Output UHF Peak	1100mAh Capacity

Model	Type of Radio	Primary User	Frequency Range	Additional Options	Size	Speaker Size	Display	Channels	Latest Firmware (02/2017)	License to Transmit	Power Output	Power
BaoFeng Tech Mobiles												
	Amateur Radio	Consumer Enthusiast	+ 130-179MHz + 400-520MHz + 65-108MHz RX Only (FM Radio)	+ X-Series PCB + Dual Synchronize display mode (Name & Frequency Display) + Editable Channels in Channel Mode + Cooling Fan & Stereo Line In/Out 3.5MM + DTMF Remote Commands (Start, Revive, Kill) + 2-Tone & 5-Tone Programmable + Scanning Resume Methods (Power Resume, TX Resume, More) + Auto Power Off Setting, Variable Frequency Scanning + X-band Repeater - Using 2 BTECH Mobiles (2501, 5001, 2501+220) + Quad Watch, Single Receiver	L - 5" W - 5.7" H - 1.85" 11 LB.	200mW	Full Color LCD	200	UC2012	Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	25W Output VHF Peak 25W Output UHF Peak	13.8V DC @ 15% Voltage 1A Peak Current Includes Cigarette adapter
	Amateur Radio	Consumer Enthusiast	+ 130-179MHz + 220-260MHz (US/Rele) + 300-380MHz (EU/Rele) + 400-520MHz + 65-108MHz RX Only (FM Radio)	+ X-Series PCB + Dual Synchronize display mode (Name & Frequency Display) + Editable Channels in Channel Mode + Cooling Fan & Stereo Line In/Out 3.5MM + DTMF Remote Commands (Start, Revive, Kill) + 2-Tone & 5-Tone Programmable + Scanning Resume Methods (Power Resume, TX Resume, More) + Auto Power Off Setting, Variable Frequency Scanning + X-band Repeater - Using 2 BTECH Mobiles (2501, 5001, 2501+220) + Quad Watch, Single Receiver	L - 5" W - 5.7" H - 1.85" 11 LB.	200mW	Full Color LCD	200	UC4014	Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	25W Output VHF Peak 25W Output 1.25M Peak 25W Output 350MHz 25W Output UHF Peak	13.8V DC @ 15% Voltage 1A Peak Current Includes Cigarette adapter
	Amateur Radio	Consumer Enthusiast	+ 130-179MHz + 400-520MHz + 65-108MHz RX Only (FM Radio)	+ X-Series PCB + Dual Synchronize display mode (Name & Frequency Display) + Editable Channels in Channel Mode + Cooling Fan & Stereo Line In/Out 3.5MM + DTMF Remote Commands (Start, Revive, Kill) + 2-Tone & 5-Tone Programmable + Scanning Resume Methods (Power Resume, TX Resume, More) + Auto Power Off Setting, Variable Frequency Scanning + X-band Repeater - Using 2 BTECH Mobiles (2501, 5001, 2501+220) + Quad Watch, Single Receiver	L - 7.5" W - 5.7" H - 1.85" 2.2 LB.	200mW	Full Color LCD	200	UC2M12	Amateur Individual License No License to Receive FCC Part 97 & Part 15B Usage	75W Output VHF Peak 55W Output UHF Peak	13.8V DC @ 15% Voltage 15A Peak Current DC Connect Direct Wire
	Commercial Radio Amateur Radio	Professional Business Consumer Enthusiast	+ 136-174MHz + 222-225MHz + 400-480MHz + 500-1719Hz RX Only (AM Radio) + 65-108MHz RX Only (FM Radio) + 105-135MHz RX Only (Air band) + 174-250MHz RX Only + 300-380MHz RX Only + 481-520MHz RX Only	+ Wide Receive and Transmit Frequency Support + Separate Control Head (Ethernet Cable) with Large LCD Display + Cross-band Repeater + Individual Extreme Operating DC Treated (-4°F - 140°F) + Line-In & Line-Out 3.5MM Support + Connect DTMF Mic to Panel or Body + Built-in Panel Mic (Can be used as Intercom with Body & Line-Out) + Dual Receiver (Full Duplex Receive Support) + Programmable Function Keys on DTMF Mic	LCD Panel L - 6.3" W - 2.6" H - 2.3" 5 LB. Body L - 6" W - 1.5" H - 3.5" 4.8 LB.	2X - 4000mW 8W Total	Eight-Color 1000 500 Left Bank 500 Right Bank	Panel: 1.13 Body: 1.15	LMR Commercial License (Private Business) LMR Public Safety License Amateur Individual License No License to Receive FCC Part 90, Part 97 & Part 15B Usage	50W Output VHF Peak 50W Output 1.25M Peak 50W Output UHF Peak	13.8V DC @ 15% Voltage 15A Peak Current DC Connect Direct Wire	

LOONEY TUNES



"That's all Folks!"