



We are pleased.....

to present our ideas on upgrading simplex on-site UHF radio systems to wide area repeater operation or for setting up a new on-site UHF repeater system as applicable.

The typical situation

Most on-site radio systems operate on the UHF frequency band, more often than not without a license, on so called unlicensed “color dot” business band or GMRS frequencies in the simplex mode. The lack of coverage between handheld portable radios can be corrected by the addition of a repeater station although an additional frequency is required (a repeater uses separate frequencies for transmit and receive). The second issue deals with additions and replacements of existing radios while considering the age of current radios as well as regulatory compliance issues that will have some impact on the equipment selected.

Addressing the need for a repeater

We offer three different models of repeaters – analog only which is comparable with most current UHF equipment (if reprogrammed for repeater operation), digital only (MotoTRBO) and analog/digital multi-mode (ICOM). Any of these repeaters will address and correct most coverage issues. The prices and models include a duplexer to allow the use of a single antenna and a required FCC repeater license are as follows:

Ritron analog repeater with FCC licensing, antenna and cable kit	- \$1,995
MotoTRBO digital repeater with FCC licensing, antenna and cable kit	- \$2,495
ICOM analog/digital repeater with FCC licensing, antenna and cable kit	- \$2,995

A high gain antenna system adds \$500 to the price of any of the above referenced repeater stations. The Ritron analog repeater can be used with either 25 kHz or 12.5 kHz narrow band radios (but not both) and complies with all FCC regulations through 2013 in the 25 kHz mode or 2018 for 12.5 kHz narrow band operation (See attached list of three of our most popular analog repeater, portable, and mobile radios).

The MotoTRBO repeater can operate in either 25 or 12.5 kHz analog or in the digital DMR mode (but not both). In the analog mode, this repeater complies with all FCC regulations through 2013 in the 25 kHz mode or 2018 for 12.5 kHz narrow band operation.

The ICOM FR6000 can operate in the 25 or 12.5 kHz analog mode as well as the NXDN digital format utilizing multi-mode operation for service beyond 2018!

If you wish, existing UHF radios can be reprogrammed to retain your existing frequency as well as a new repeater channel. For more information on FCC licensing requirements for repeaters, visit <http://falconinfo.blogspot.com/search/label/FCC%20Information>.

The Ritron Liberty repeater is an excellent choice if you have no plans to utilize digital radios. However, there are some compelling reasons to consider the use of digital radios as explained at <http://pathwayplanner.blogspot.com>.

The MotoTRBO technology is a proprietary digital standard that is not compatible with the products of any other manufacturer which can be an issue with some users. Still, it is a popular favorite.

The ICOM repeater is compatible with new or existing analog radios programmed for digital operation as well as any digital radio utilizing dPMR (also known as NXDN technology – See the Digital Radios section of www.falconinfo.blogspot.com for more information).

Portable Radios

We offer a choice of four portable radios for repeater operation. All radios are rated at 4 watts (F4161 is 5 watts), MIL-SPEC 810 approved and designed for commercial use. The TEKK XU1000 is an excellent choice if you do not plan to upgrade to digital and you have an assumed replacement life of 3 years. The ICOM F50 is somewhat more expensive, but better suited for outdoor use with upgraded environment protection (it is rated for submersible operation) and a longer replacement cycle (5 years or more). Both the ICOM F4061D and the Motorola XPR6300 are capable of digital operation and have a predicted useful life of 7 to 10 years. Prices are as follows:

TEKK XU1000 – 4 watt analog Tier one capability	-	\$289
ICOM F50 – 4W analog Tier two capability	-	\$489
ICOM F4161S – 4W analog/digital Tier three capability	-	\$569
Motorola XPR-4300 – 4W digital Tier three capability	-	\$729

Service Programs

Our pricing is a little different from those you may see from others. There are no hidden charges like programming fees or additional charges for the things required to make the product function to your expectations. If an FCC license is required, you will know, and you will know what is required to comply with applicable federal regulations. You don't pay extra for shipping. UPS ground shipping is included. You don't pay extra for using a credit card. The price you see is the price you pay - that's it!







Our 4 year limited warranty and service program is totally unique. For the first year, we cover everything except abuse. We even take care of shipping both ways. You pay nothing for warranty exchange. We even have a loaner plan available if desired. Additional information is available at www.bestpriceradio.com. For your consideration, we have prepared the following price guides on repeaters, portables, and mobiles. We look forward to serving you!



Looking for.....

the best value in UHF repeaters? Look no further! Our top three models all include a high specification duplexer for single antenna use, free programming, and great pricing! A Quick Review Chart is provided below. More detailed information is available at:

www.info4u.us/Liberty.pdf, www.info4u.us/xpr.pdf, and www.info4u.us/FR5000.pdf

Specifications	Ritron Liberty	Motorola XPR8300	ICOM FR6000
  			
Frequency Band	450-470 MHz UHF	VHF or UHF	VHF or UHF
Operating mode	Analog	Analog or Digital	Analog AND Digital
Size	2.12" x 8.0" x 5.75"	5.22" x 19.0" x 11.67"	19.1" x 3.5" x 10.25"
Weight	3.5 pounds	31 pounds	12.3 pounds
Number of channels	1	32	32
Transmitter power	5 Watts	45W VHF 40W UHF	50 Watts VHF or UHF
Duplexer included	Yes	Yes	Yes
Bandwidth	25 or 12.5 kHz	25 or 12.5 kHz	25 or 12.5 kHz
LTR 6.25 kHz capable	No	No	Yes
Our Warranty	4 years	4 years	4 years
Price with FCC license	\$1,495	\$2,695	\$2,995
Price without license	\$995	\$2,195	\$2,495
Antenna System*	\$500	\$500	\$500
Programming kit (optional)	\$129	\$374	\$129

* Antenna system includes lightning protection, cable, connectors, and battery backup. For additional information, please visit www.info4u.us/BaseAntennas.pdf.

Free programming is included with all models. Information on our available service programs is available at www.UltraCarePlus.com. In particular, check out the TimeShare program. We think you'll like it! In essence you pay a onetime cost of just \$200 for partial ownership in a spare repeater. If you ever need service, you pay just \$200 for a next day exchange repeater, and all shipping cost during the warranty period. No other service program even comes close!

All radios listed are available for evaluation. For additional information please visit our special web page at <http://ultracareplus.com/trials.aspx>. You're going to like doing business with us! Our job is taking care of YOU!

The Falcon Team






At your service!



Looking for.....

the best value in portable radios? Look no further! Our top three MIL-SPEC 810 approved models with, fast delivery, free programming, and great pricing! A Quick Review Chart is provided below. More detailed information is available on the Internet at

www.info4u.us/F50.pdf, www.info4u.us/xpr.pdf and www.info4u.us/F3161.pdf

Specifications	ICOM F50	Motorola XPR6550	ICOM F4061S & D
			
			
Frequency Band	VHF or UHF	VHF or UHF	VHF or UHF
Operating mode	Analog	Analog and Digital	Analog and Digital
Size	3.8" x 2.4" x 1.4"	4.21" x 2.28" x 1.46"	5.29" x 2.2" x 1.53"
Weight	9.9 Ounces	11.98 Ounces	12.0 Ounces
Number of channels	128	32	512
Transmitter power	5W VHF, 4W UHF	5W VHF, 4W UHF	5W VHF or UHF
Audio output	500 mW	500 mW	500 mW
LCD alpha display	Yes	No	Yes
LTR 6.25 kHz capable	No	No	Yes
Warranty	4 years	4 years	4 years
Analog model – Our price	\$489	Not available	\$569* "S" Model
Digital Model	Not available	1,085	\$749 "D" Model
Programming kit (optional)	\$129	\$374	\$129
Battery type/Life	Li-Ion 10 hours plus	Li-Ion 9-13 hours	Li-Ion – 14 hours plus
Type charger	Desk rapid	Desk conditioning	Desk rapid

*ICOM F4061S can be later upgraded to digital by adding a digital upgrade board. Information on the TEKK XU1000 (not shown above) is available at www.falcondirect.com/tekk.

Free programming is included with all models. Information on our available service programs is available at www.UltraCarePlus.com. In particular, check out the TimeShare program. We think you'll like it! In essence you pay a onetime cost of just \$25 for partial ownership in a spare radio. If you ever need service, you pay just \$25 for a next day exchange radio, and all shipping cost during the warranty period. No other service program even comes close!

Our most popular accessories are as follows:

Carrying case—\$39

Speaker-microphone—\$69

Spare battery—\$79

All radios listed are available for evaluation. For additional information please visit our special web page at <http://ultracareplus.com/trials.aspx>. You're going to like doing business with us! Our job is taking care of YOU!

The Falcon Team

At your service!






36 – 20th Avenue NW - Birmingham, AL 35215 - Phone 205.854.2611 - Fax 205.853.6178



Looking for.....

the best value in mobile radios? Look no further! Our top three MIL-SPEC 810 approved models with, fast delivery, free programming, and great pricing! A Quick Review Chart is provided below. More detailed information is available on the Internet at

www.info4u.us/F121.pdf, www.info4u.us/F5061.pdf, and www.info4u.us/xpr.pdf

Specifications	ICOM F221	Motorola XPR4300	ICOM F6061
			
			
System Type	Tier One	Tier Two	Tier Three
Frequency Band	VHF or UHF	VHF or UHF	VHF or UHF
Operating mode	Analog	Analog or Digital	Analog AND Digital
Size	5.9" x 1.6" x 6.6"	6.89" x 2.01" x 8.11"	6.3" x 1.8" x 5.9"
Weight	2.4 pounds	4.0 pounds	2.9 pounds
Number of channels	128	32	512
Transmitter power	50W VHF, 45W UHF	25W VHF or UHF	50W VHF or 45W UHF
LCD alpha display	Yes	No	Yes
LTR 6.25 kHz capable	No	No	Yes
Warranty	4 years	4 years	4 years
Analog model – Our price	\$389	Not available	\$569*
Digital Model	Not available	\$920	\$749
Rear mount kit	Not available	Not available	\$150
Roof mount antenna	\$40	\$40	\$40
Extend warranty to 5 yrs.	\$37	\$108	\$37
AC power supply	\$131	\$131	\$131
Desk microphone	\$119	\$119	\$119
Office station antenna	\$350	\$350	\$350

*Upgradeable to digital when desired. Requires the addition of a plug in option board.



Note: The mobile radios above are available with optional accessories to allow them to function as a fixed office station. If you choose the Tier 1 analog system, you can use the Ritron Jobcom fixed station shown at the left as a very affordable and efficient fixed station unit. The price is only \$349 complete! Additional information is available on the Jobcom station at www.usa-radio1.com/prices/basestations. Tier 2 and Tier 3 systems can use a portable radio with desktop charger for fixed use if desired.

All radios listed are available for evaluation. For additional information please visit our special web page at <http://ultracareplus.com/trials.aspx>. You're going to like doing business with us! Our job is taking care of YOU!

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