



FALCONDIRECT

We Keep You Connected

www.FalconDirect.com

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 including 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	- \$3,495*
ICOM analog/digital repeater with FCC licensing, antenna and cable kit	- \$2,995

A 10X gain antenna system adds \$1,500 to the price of any of the above referenced repeater stations. The Ritron analog repeater is compatible with all current models of UHF analog radios and complies with all FCC regulations through 2018 (See attached list of three of our most popular analog radios).

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

The MotoTRBO repeater is not compatible with existing analog radios unless it is programmed for analog operation, in which case it cannot operate in the digital mode for use with MotoTRBO digital mode portable radios.

* Note all price references in this planner are based on Motorola MSRP. Prices are presented for price comparison only are not presented as an offer to sell in compliance with our Motorola contractual agreement.

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 these radios are rated at 4 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	-	\$209
ICOM F50 – 4W analog Tier two capability	-	\$419
ICOM F4161S – 4W analog/digital Tier three capability	-	\$649
Motorola XPR-4300 – 4W digital Tier three capability	-	\$729

Service Programs

The standard warranty on the TEKK radio is one year, ICOM is two years, and the MotoTRBO portable - three years. Repeater warranties are one year on the Ritron, two years on the ICOM, and three years on the Motorola. All factory warranty programs assume return of defective equipment to the respective manufacturer where the necessary repairs will be made and equipment returned prepaid.

We also offer a warranty supplement program known as TimeShare. In essence you pay a onetime cost of just \$25 for partial ownership in a spare radio, or radios as desired. If you ever need service, you pay just \$25 for a same or next day exchange radio and all shipping cost during the warranty period. No other service program even comes close!

Equipment Pricing







For your consideration, we have prepared the following price guides on repeaters, portables, and repeater/base stations. One of them should be just right for 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/L_liberty.pdf, www.info4u.us/FR5000.pdf, and www.info4u.us/xpr.pdf

Specifications	Ritron Liberty	ICOM FR6000	Motorola XPR8300
  			
Frequency Band	450-470 MHz UHF	VHF or UHF	VHF or UHF
Operating mode	Analog	Analog AND Digital	Analog or Digital
Size	2.12" x 8.0" x 5.75"	19.11" x 3.51" x 10.25"	5.22" x 19.0" x 11.67"
Weight	3.5 pounds	12.3 pounds	31 pounds
Number of channels	1	32	32
Transmitter power	5 Watts	50 Watts VHF or UHF	45W VHF 40W 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	Yes	No
Warranty	2 years	2 years	3 years
Price with FCC license	\$1,995	\$2,995	\$3,495
Price without license	\$1,495	\$2,495	Call 800.489.2611
Antenna System – 10X*	\$1,500	\$1,500	\$1,500
Programming kit (optional)	\$129	\$129	\$374

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

Specifications	ICOM F50	ICOM F4061S	Motorola XPR6300
 			
Frequency Band	VHF or UHF	VHF or UHF	VHF or UHF
Operating mode	Analog	Analog AND Digital	Analog or Digital
Size	3.8" x 2.4" x 1.4"	5.29" x 2.2" x 1.53"	4.21" x 2.28" x 1.46"
Weight	9.9 Ounces	12.0 Ounces	11.98 Ounces
Number of channels	128	512	32
Transmitter power	5W VHF, 4W UHF	5W VHF or UHF	5W VHF, 4W UHF
Audio output	500 mW	500 mW	500 mW
LCD alpha display	Yes	Yes	No
LTR 6.25 kHz capable	No	Yes	No
Warranty	2 years	2 years	3 years
Regular selling price	\$603	\$895	\$1,002
Our Price	\$419	\$649	Call 800.489.2611
Programming kit (optional)	\$129	\$129	\$374
Battery type/Life	Li-Ion 10 hours plus	Li-Ion – 14 hours plus	Li-Ion 9-13 hours
Type charger	Desk rapid	Desk rapid	Desk conditioning

Note: 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	ICOM F6061	Motorola XPR4300
			
			
System Type	Tier One	Tier Two	Tier Three
Frequency Band	VHF or UHF	VHF or UHF	VHF or UHF
Operating mode	Analog	Analog AND Digital	Analog or Digital
Size	5.9 x 1.6 x 6.6"	6.3 x1.8 x5.9	6.89 x 2.01 x 8.11
Weight	2.4 pounds	2.9 pounds	4.0 pounds
Number of channels	128	512	32
Transmitter power	50W VHF, 45W UHF	50W VHF or 45W UHF	25W VHF or UHF
LCD alpha display	Yes	Yes	No
LTR 6.25 kHz capable	No	Yes	No
Warranty	2 years	2 years	3 years
Regular selling price	\$425	\$895	\$685
Our Price	\$329	\$649	Call 800.489.2611
Programming kit (optional)	\$129	\$129	\$344
Rear mount kit	Not available	\$100	Not available
Roof mount antenna	\$26	\$26	\$26
Extend warranty to 5 yrs.	\$57	\$57	\$108
AC power supply	\$155	\$155	\$155
Desk microphone	\$119	\$119	\$119
Office station antenna	\$43	\$43	\$43



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 \$289 complete! Tier 2 and Tier 3 systems can use a portable radio with desktop charger for fixed use if desired. Additional information is available at www.usa-radio1.com/prices/basestations.

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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