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Premium Transmitters

High power in a tiny package. And built to last.

"I really like the look and feel of the little things that show I am willing to buy the best for my birds. There is no electrical tape to hold in the batteries or goofy make-shift design with Marshall products. I feel that Marshall gear is superior in quality and function to the other telemetry options out there, and even if I didn't, I would still use Marshall because of the fact that the transmitter and receiver designs LOOK like they are better quality."

-Christopher Wall

The lightweight, high-power transmitters from Marshall Radio have evolved both inside and out for over two decades now. While you can immediately see and feel the premium design on the outside, that same attention to detail is also given to the circuit and components found on the inside. Marshall Radio reinvented falconry transmitters with more than just a few incremental changes. We've introduced new breakthrough designs that changed what we all expect from falconry transmitters these days. They are transmitters that are a pleasure to own and use.



On the outside, tiny laser-engraved cases reflect our excessive attention to detail and finish. Machining the unibody cases from the toughest aircraft aluminum alloys is costly, but the most precise way to achieve the tight tolerances we're after while creating a work of intricate smooth sculpture to attach to your bird. Most importantly, it provides the best lightweight and durable protection for what's inside.

On the inside, Marshall transmitters incorporate the most energy efficient yet powerful circuitry available to falconers anywhere. You can count on practical performance features found nowhere else, such as temperature stable operation, the ability to maintain the same high power output even as the battery drains, the option to individually set custom operational parameters such as speeding up or slowing down the pulse rate, or having us change the frequency on your transmitter at a later date if needed. And all this, neatly packed inside a gorgeous case design, built to take incredible abuse season after season.

Marshall Transmitters were the first to incorporate the convenient and now widely popular Tap-on/Tap-off magnetic control switch, the first to use a real time low-battery indicator and fuel gauge with the double-beep Low-battery sensor to warn you when there are only three days of run-time left, and the first transmitters to implement the Lost Bird Mode that automatically slows the pulse rate and narrows the pulse width to conserve power when it has not been turned off for 24 straight hours. They still are the only designs that can operate in extreme low temperatures where battery voltage can drop down to a trickle that simply shuts down other transmitters.

The transmitter models detailed below each have a different intended use. You quickly see that the transmitter's shape and size lends itself best to one of the four main mounting methods. The "Transmitters at a Glance" table found at the bottom

of the page highlights key specifications in comparison to each other. Roll over the image of the transmitter you'd like to learn more about and click to drill down for more detail, Q&A, as well as an Image Gallery for that model.

You might give further thought about the mounting method you use, by reading through the information summarized for you here on this page, first.

Shown above is an RT+ mounted on a male goshawk using the TrackPack mounting plate and harness.

All Marshall products may be ordered directly online, or you may contact one of our Authorized US Distributors, who also maintain in-stock inventory for immediate shipment:

- Mikes Falconry: www.mikesfalconry.com
- Northwoods Ltd. www.northwoodsfalconry.com
- Western Sporting: www.westernsporting.com

[Mounting Methods](#)



How and **where** to attach a radio transmitter to a hunting bird are two key decisions that every falconer needs to carefully make.

The Mounting Methods used for attaching transmitters to birds have evolved for many years, and they are constantly improving as we all gain experience and discover new materials.

This summary outlines in one place the advantages and disadvantages, together with the opinions of falconers, about each of the four mounting methods currently in use worldwide.

Click on the tabs to jump to the method you're now using or interested in, and review the discussion of that method. A Photo Gallery is also included to help you decide what you prefer as you see birds in flight with Marshall transmitters using each of the four mounting methods.

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[Scout Transmitter](#)





The Scout transmitter is designed for use with the larger hawks, such as Redtails, Goshawks and Harris' Hawks when used as a leg or tail mount. It can also be used on smaller birds when using the TrackPack.

Key features are the low price and long battery life:

- Runs forty days on a single battery
- Forty miles line-of-sight range
- Weighs just 9 grams with battery
- Uses a short 7-inch antenna
- Can be ordered with Mag switch
- The lowest cost transmitter
- 2032 lithium coin cell battery widely available everywhere
- Available Frequencies: 216, 217, 218, 219

Leg: \$125.00

Tail: Add \$10

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[Scout UHF](#)



The Scout UHF version is designed for use with the larger hawks, such as Redtails, Goshawks and Harris' Hawks. However, when mounted on a TrackPack it can be used by birds as small as a tiercel peregrine. Requires HAM Radio license to operate on UHF bands in the US.

- Runs 12 days on a single battery
- Four times the power output of the regular Scout
- Still weighs only 9 grams
- Uses a short 7-inch antenna
- Sixty miles line-of-sight range
- Frequencies: 433, 434
- Comes with Mag switch
- 2032 lithium coin cell battery widely available everywhere
- Comes in Military Green

Leg: \$175.00

Tail: add \$10

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[RT Plus Transmitter](#)



The RT Plus is designed around the reliable 1/3N lithium battery which gives the overall unique shape and size. With its longer battery life and powerful signal, it was developed to be a primary leg mount for larger shortwings and longwings (18oz birds and up). The RT+ was the first of a new generation of transmitters with a short, safe, half-length antenna, yet still puts out more power than others still using long ones. It is also ideal as a

secondary (backup) transmitter to the PowerMax backpack mount. Features are now found in the RT+ never before available in a falconry transmitter (see link below).

Each unit is burned-in and Enviro-tested tested from +150F down to -40F prior to shipping. Thousands of this newest design are now in the field worldwide with enthusiastic and reliable results. Available frequencies: 216, 217, 218, 219

Leg: \$195.00

Tail: Add \$10

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[Micro Transmitter](#)



This tiny transmitter is the "Ideal Tail Mount" for all sized birds. It weighs only 3.5 grams with the battery yet is a medium range flat design putting only 1/3 the weight on a single tail feather.

Unlike other transmitters using very small batteries, the new Micro doesn't fade out or die in low temperature situations.

It is perfect for small specialty birds: Merlins, small hybrids, sharp-shinned hawks and other extremely small raptors. You can order it with a 'fine' or a 'medium' gauge antenna, depending on intended use.

The Micro also contains the magnetic 'tap on/tap off' switch, a half-length 7-inch antenna with improved power and efficiency over the old Micro. Each unit is burned in for five days and Enviro-tested tested from +150F down to -40F prior to shipping. Available frequencies: 216, 217, 218, 219

Leg: \$225.00

Tail: Add \$10

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PowerMax Transmitter



The PowerMax is the ideal transmitter for the backpack mounting method using the TrackPack. Its exceptional power output makes it the right choice as a primary transmitter while the flat coin-shaped case keeps a very low profile on the back. Mounted up higher on the bird, the nine-inch long antenna does not extend past the tail. Furthermore, it's been designed to be easily left on at all times and easily turned on or off

with the tap of a magnet for daily use.

The PowerMax incorporates a low-battery indicator, you might think of as a fuel guage, that uses both a timer and internal voltage sensor to warn you in advance when it's time to change the battery. Accumulated run-time is approximately 60 hours with another five days left to search after the double-beep.

Combining a Powermax as your primary transmitter, with a small Micro transmitter on the tail as the backup, provides you with two dorsal mounts that are up high, flat and aerodynamic, and out of the way. It takes a matter of seconds to Tap both transmitters to life with the Mag Switches and be ready to fly.

Each unit is burned-in, tested for power and Enviro-tested tested from +150F down to -40F prior to shipping.

Available frequencies: 216, 217, 218, 219

Tail: \$245.00

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RT UHF



The new RT UHF is a higher power transmitter running on the frequencies of 433-434 MHz. These frequencies require a receiver to match, which are also now available from Marshall Radio. Key advantages are that the antennas are much shorter while the interference and static caused by Commercial interference is almost non-existent.

Here in the America, the law requires that you be a licensed Amateur Radio Operator (HAM) to transmit on these frequencies and use these higher power levels.

Built around the reliable 1/3N lithium battery, the RT UHF is the ideal shape and size for leg mounting. With the new bullet lid and tailspring added, it becomes a great TrackPack mount.

Price: Call for special HAM pricing

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[Transmitters at a Glance](#)

	RT Plus	PowerMax	RT Std.	RT UHF	Micro	Micro UHF	Scout	Scout UHF
Body Size	.540" diameter	.720" diameter	.540" diameter	.540" diameter	.565" diameter	.565" diameter	.880" diameter	.880" diameter
Weight w/ Batt	8.1g leg 8.4g tail	7g	8.9g tail	8.8g tail	3g leg 3.5g tail	3g leg 3.5g tail	9g leg 9.5g tail	9g leg 9.5g tail
Std. Duty Cycle	30ms 95ppm	60ms 48ppm	60ms 56ppm	30ms 95ppm	40ms 40ppm	40ms 40ppm	40ms 40ppm	30ms 95ppm
Apollo 13 Duty Cycle	30ms 30ppm	30ms 27ppm	Opt.	20ms 30ppm	20ms 27ppm	20ms 27ppm	20ms 27ppm	20ms 27ppm
Apollo 13 Activation Time (H)	24	16	Opt.	12	10	10	24	12
Operating Temperature	-40F to +150F (w/ new battery), Micro -20F (w/ new battery)							
Battery	1/3N Lithium 3V	CR1632 Lithium 3V	1/3N Lithium 3V	1/3N Lithium 3V	CR1225 Lithium 3V	CR1225 Lithium 3V	CR2032 Lithium 3V	CR2032 Lithium 3V
Battery Life	Approx 15 days continuous	Approx 9 days continuous	Approx 10 days continuous	Approx 10 days continuous	Approx 5 days continuous	Approx 5 days continuous	Approx 40 days continuous	Approx 10 days continuous
Relative Power	+5db	+8db	+11db	+12db	+2db	+6db	+4db	+10db
Mounting Methods	Leg, Tail, Neck, Backpack	Tail, Backpack	Tail, Backpack	Leg, Tail, Neck, Backpack	Leg, Tail, Neck, Backpack	Leg, Tail, Neck, Backpack	Leg, Tail, Neck, Backpack	Leg, Tail, Neck, Backpack
Antenna Length	7.875"	9.5"	13"	7"	7.25" tail 9" leg	8.25"	7"	6"
Warranty	Three Years	Three Years	Three Years	Three Years	Three Years	Three Years	One Year	One Year
Mag Switch	Yes	Yes	Opt.	Opt.	Yes	Yes	Opt.	Yes
Low Battery Warning	Yes	Yes	Yes	Yes	Timer Only	Timer Only	Yes	Yes

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Our Mission

Our mission is to continually improve and produce the very best in tracking products, using the finest materials and radio engineering. We will go to any length to be sure that Marshall Radio equipment will give the best performance and be the most rugged, reliable tracking gear available anywhere in the world.

This site provides products and descriptions for Falconers in North and South America, including the US, Alaska, Hawaii, Canada, Mexico, Argentina, Chile, Brazil and Peru.

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