




## SRX800

Technology:  Radio

Product:  Receiver



## The original Smart Receiver

Lotek SRX receivers have been assisting fisheries and wildlife researchers answer questions regarding the behavior of animals in their natural environment since the SRX400 was first introduced in 1991. Inspired by the belief that in order to provide effective tools to assist researchers, those tools must be readily adaptable to evolving research requirements.

As radio telemetry evolved from tracking small numbers of tagged animals by boat, plane, car or on foot, to a standard research tool in large-scale research projects, monitoring behavior and migratory patterns of thousands of animals over hundreds of miles, the SRX receiver likewise evolved to become the standard by which radio telemetry receivers are measured. Performance and reliability are synonymous with their use.

The SRX800 is designed to meet the demands of today's research and is available in a feature-rich suite of readily scalable receiver models. The researcher can thus select the model that best meets immediate application needs and budgets constraints, with assurance their investment will continue to support evolving telemetry requirements.

### Features:

#### Versatile:

Autonomous data-logging or mobile tracking capability

#### Superior Range:

Enhanced sensitivity

#### Coded Capability:

Supporting up to 728 unique IDs per channel

#### Extended Antenna Coverage:

Supporting up to 8 individual antennas

## Product Applications

Species migration patterns, presence/absence monitoring, survival studies, passage/guidance efficiency, critical habitat use, species interactions.

SRX800 Model	M1	M2	D1	D2	D3	MD2	MD3	MD4
Keypad & display	Yes	Yes	-	-	-	Yes	Yes	Yes
Mobile tracking	Yes	Yes	-	-	-	Yes	Yes	Yes
Padded carry case	-	Yes	-	-	-	Yes	Yes	Yes
Pelican™ Case	-	-	Yes	Yes	Yes	-	-	-
Operating bandwidth	8 MHz	8 MHz	8 MHz	8 MHz	8 MHz	8 MHz	8 MHz	26 MHz
Sensor support <sup>[1]</sup>	-	Yes	-	Yes	Yes	Yes	Yes	Yes
Autonomous datalogging	-	-	Yes	Yes	Yes	Yes	Yes	Yes
Max # of antennas	1	1	4	4	4	8	8	8
Max coded frequencies	7	128	1	7	128	7	64	128
Max beeper frequencies	20	128	20	64	128	64	64	128
Memory <sup>[3]</sup>	-	1 MB	4 MB	4 MB	16 MB	4 MB	4 MB	16 MB
Max event capacity	-	250K	1M	1M	4M	1M	1M	4M
GPS clock & position	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Code ID & channel filter <sup>[2]</sup>	Yes	Yes	-	Yes	Yes	Yes	Yes	Yes
Monitor mode <sup>[3]</sup>	-	Yes	-	-	-	-	-	-
CRTO <sup>[4]</sup>	-	-	Yes	Yes	Yes	Yes	Yes	Yes
AGC <sup>[5]</sup>	-	-	Yes	Yes	Yes	Yes	Yes	Yes
TOA <sup>[6]</sup>	-	-	Yes	Yes	Yes	Yes	Yes	Yes
ON/OFF scheduler <sup>[7]</sup>	-	-	-	Yes	Yes	-	-	-
Remote terminal control <sup>[8]</sup>	-	-	-	-	-	-	-	Yes

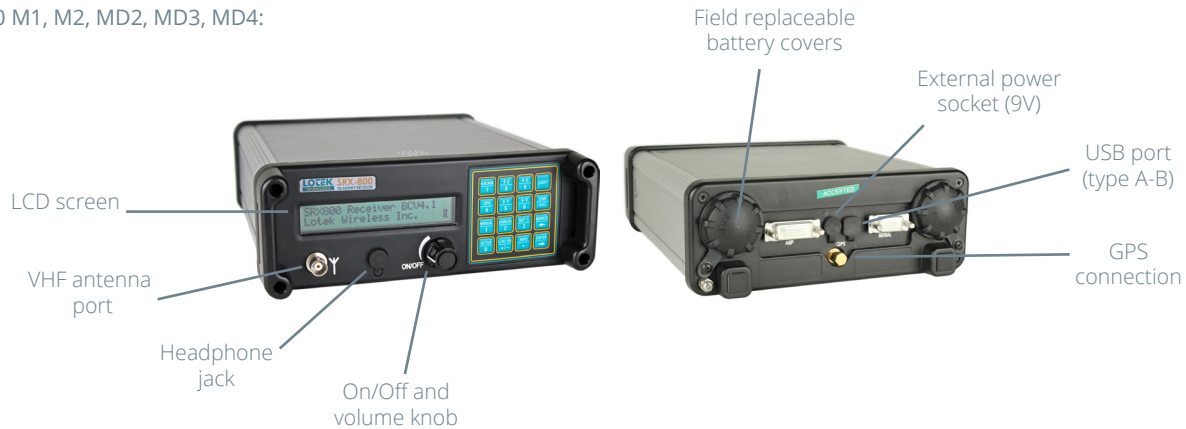
The SRX800 supports a wide variety of user-selectable features and options to best meet application-specific needs. Among them:

1. **Sensor Support:** Supports coded multi-sensor tags including temperature, pressure, activity and EMG. Depending on tag model selected, temperature, pressure and activity data may be logged directly on the tag, as well as be transmitted for detection by receiver. A bi-modal (active/inactive) motion tag option is also available.
2. **Code ID & Channel Filter:** Supports the ability to accept or reject specific coded tag IDs or combinations (up to 100 individual entries). The feature is beneficial in both manual and data logging operations, as it allows user to monitor specific tags of interest.
3. **Memory Capacity/Monitor Mode:** 1MB applies to use of the Monitor Mode feature, that allows users to manually log detected events, including date and time tag ID, sensor data, signal strength and GPS position for user-specified durations during mobile tracking sessions.
4. **CRTO (Continuous Record on Time-out):** A flexible option to conserve memory by providing summary detections over a user-specified time period.
5. **AGC (Adaptive Gain Control):** User-selectable feature that enables the receiver to dynamically adjust gain to compensate for prevailing local ambient noise conditions.
6. **TOA (Time-out on Acquisition):** With TOA enabled, the receiver monitors each frequency and antenna combination specified in its active configuration only until the first valid detection is logged. Total scan cycle time is reduced accordingly.
7. **ON/OFF Scheduler:** The Wake Up Sleep utility defines scanning and logging periods based on a user-defined time window within a 24 hour period, thereby conserving both storage capacity and energy budget for externally powered datalogging stations.
8. **Remote control:** Supports remote data download and the ability to upload a new configuration to the receiver via modem connection (modem not included).

SRX800 D1, D2, D3:



SRX800 M1, M2, MD2, MD3, MD4:



### Technical specifications:

Operating temperature range: -20° C to +55° C  
 LCD: from -5° C (SRX800 M1, M2, MD2, MD3, MD4)  
 Operating voltage range: 8-10V DC (nominal 9V) (SRX800 M1, M2, MD3, MD4)  
 Operating voltage range: 9-16V DC (nominal 12V) (SRX800 D1, D2, D3)  
 Operating frequency range: 138 to 176 MHz

Channel spacing: 1 KHz  
 Sensitivity: -150 dBm (minimum discernible audio level)  
 -135 dBm (minimum discernible software)  
 Gain control range: 90 dB  
 I/O: RS232 and USB  
 Antennas: 1- 8 (SRX800 M1, M2, MD3, MD4)  
 Antennas: 1- 4 (SRX800 D1, D2, D3)

## Warranty

SRX800 receivers are warranted to be free of defects in materials and workmanship under Normal Use for a duration of 24 months from time of sale. For Warranty terms and conditions, please review our [Warranty Statement](#).

## Accessories

SRX800 D1, D2, D3 models require an external power supply.  
 All models require antennas.