Lotek

SRX1200 Receivers

Technology: **Radio**

Product: **Receiver**

The Connected Smart Receiver

Lotek SRX receivers have been assisting wildlife researchers to 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. Maintaining industry standard sensitivity, the SRX1200 is equipped with remote communication compatibility delivering real time data and communication from the field.

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 SRX1200 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:

Audio   2-Way Communicaton   Data Download

Versatile:
Autonomous data-logging or mobile tracking capability

Superior Range:
Enhanced sensitivity

Coded Capability:
Supporting up to 728 unique IDs per channel

Remote Communication:
Compatible with real-time data download and receiver configuration

Product Applications

Preliminary monitoring/pilot studies, location of spawning/nesting sites, studies of migration behavior and timing, large scale monitoring via aircraft, presence/absence monitoring, survival studies, passage/guidance efficiency, critical habitat use, multi-species monitoring, e.g. birds, fish, mammals

Lotek

| SRX1200 Model	M1	M2	MD1	MD2	D1	D2
Keypad & display	✓	✓	✓	✓	-	-
Mobile tracking	✓	✓	✓	✓	-	-
Padded carry case	-	✓	✓	✓	-	-
Pelican™ Case Housing	-	-	-	-	✓	✓
ASP4 included	-	-	optional	✓	-	-
Bandwidth	12 MHz	12 MHz	12 MHz	26 MHz	12 MHz	26 MHz
Sensor support [1]	-	✓	✓	✓	-	✓
Autonomous datalogging	-	-	✓	✓	✓	✓
Internal battery power	✓	✓	✓	✓	-	-
Antennas	1	1	1-4	1-4	1-4	1-4
Coded frequencies (Chan)	7	128	7	128	7	128
Beeper frequencies (Chan)	30	128	30	128	30	128
Memory Size	-	2 mb	64 mb	128 mb	64 mb	128 mb
Max event record capacity	-	500 K	16 M	32 M	16 M	32 M
GPS clock & position	-	✓	✓	✓	✓	✓
Code ID & channel filter [2]	-	✓	✓	✓	✓	✓
Monitor mode [3]	-	✓	-	✓	-	-
CRTO function [4]	-	-	✓	✓	✓	✓
TOA [6]	-	-	✓	✓	✓	✓
ON/OFF scheduler [7]	-	-	-	-	-	✓
Multi-codeset scanning	-	-	-	✓	-	✓
Wifi Enabled	-	-	-	✓	-	✓
Remote terminal control [8]	-	-	-	✓	-	✓
Remote Notification	-	-	-	✓	-	✓

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).

	SRX1200-M Series	SRX1200-D Series
Weight	~2.0 kg (without batteries)	~2.3 kg
Size	~22x 20 x 8cm	~27 x 25 x 13 cm
Battery Life (6 x C cell 1.5 V Alkaline)	Standard: ~16 hrs. @ 20°C (LCD back light off) ~12 hrs. @ 20°C (LCD back light on)	N/A
Operating Voltage Range	9 V (+/- 1 V)	9-16VDC (nominal 12V)
Operating Current	250-450 mA @ 9 V	275 mA @12V

Features and specifications subject to change without notice.

SRX1200-M Series
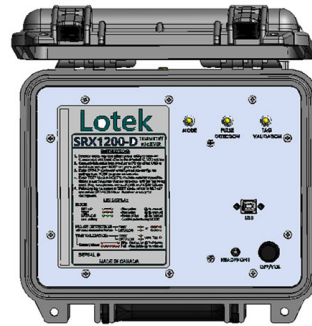
SRX1200-D Series

Technical specifications:
Operating Temperature range: -20°C to +50°C
(LCD: from -5°C (SRX1200-M Series))
Storage Temperature range: -30°C to +55°C
Gain control range: 90 dB
I/O: RS232 and USB
Relative Humidity: 95%
Altitude Rating: 2000 m

RF Parameters:
Operating Frequency Range: 138-176 MHz
VHF Input Impedance: 50 Ohm
Frequency Resolution: 1 kHz
Frequency Stability: 5ppm
Sensitivity:
Minimum discernible audio level: -150 dBm
Minimum discernible software: -135 dBm

Warranty

SRX1200 receivers are warrantied 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

SRX1200-D Series require an external power supply.
All models require antennas.