ATS R4500SD Receiver/Datalogger with DSP

₩World's Most Reliable Transmitters and Tracking Systems









Remote Station

- Receiver and Datalogger in One Integrated Unit
- DSP for Increased Range and Sensitivity
- 1 kHz Channel Spacing
- GPS Receiver On-Board
- Signal Strength Measurement
- Log Up to 100,000 Non-Volatile Data Blocks
- USB to PC Connection
- Digital Control Port to Switch Antennas and Other Devices
- Separate RF Gain and Audio Level Controls
- Ruggedly Built for Field Use
- Non-Volatile Flash Memory
- Easy Operation
- Rechargeable NiMH Batteries
- Off-Load Software Included
- Twelve Frequency Tables

ANTENNA SYSTEMS CODED ID SYSTEMS CONSULTING

Digital Signal Processing (DSP) and integrated technologies do more for thousands less.

ATS has combined Digital Signal Processing (DSP) technology, GPS, a field proven scanning receiver, and datalogger into one compact, easy-to-use unit.

At the heart of the R4500SD is its innovative Digital Signal Processing (DSP) technology. Simply put, DSP technology enhances sensitivity, improves noise rejection, and significantly increases tag detection range when datalogging.

The R4500SD also has a GPS receiver onboard to accurately document the position of transmitters while aerial tracking. There is no need to record GPS separately. Signal level output improves location precision.

Interactive tables can be uploaded from a PC or cloned to another receiver saving considerable time in the field. There's even a digital port to control antenna switching, a GOES transmitter, etc.

Add the capability to store 100k non-volatile data blocks and a price that is thousands less than competitors' combination units, it's clear the R4500SD is a "must have" for today's data-intensive fisheries and wildlife research.

The ATS R4500SD receiver/datalogger with DSP represents a big step forward in capturing and recording the data you need in order to ensure a successful research project.

TRANSMITTERS RECEIVERS GPS SYSTEMS



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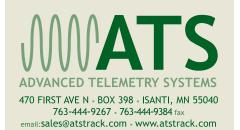








TRANSMITTERS RECEIVERS **GPS SYSTEMS** ANTENNA SYSTEMS CODED ID SYSTEMS CONSULTING



ATS R4500SD Receiver/Datalogger

GENERAL

- Frequency range:
- Channel spacing: • Input impedance:
- Minimum discernible signal (MDS):
- Noise figure:
- Speaker:
- DSP signal detection range:
- DSP signal detection level:
- Frequency stability:
- IF frequency:
- IF bandwidth:
- Image rejection:
- RF gain control range:
- Operating voltage range:
- Dwell time (scan rate):

MODES & OPERATOR INPUTS

- Aerial Mode:
- Frequency
- Table # (1-12)
- Pulse rate filter (1-4 pulse rates)
- Scan rate
- GPS (On/Off)

PC Mode:

• Off-load data • Upload and download frequency tables (Excel format)

Clone Mode: • Transfer tables from one

- 1 second to 5 minutes
- Pulse rate filter (1-4 pulse rates)

Any specified 4 MHz range from 140 to 220 MHz

-150 dBm (0.007 uv into 50 ohms)

- Scan time
- Time out

1 kHz

50 ohms

8 ohms

± 2 kHz

10.7 Mhz

>150 dB

>130 dB 9 to 18 V DC

3 dB maximum

-133 dBm minimum

± 1 kHz -20°C to +50°C

6 dB ± 2 kHz; 80 dB ± 7 kHz

- Antennas scanned (1-8)
- Goes (On/Off)
- Reference transmitter (Yes/No)
- Reference transmitter store rate

Manual operation

R4500SD (Master) to another R4500SD

DISPLAY (4 line by 20 characters)

Aerial Mode:

- Channel # and frequency
- Period/pulse rate
- GPS status
- Signal strength Battery status

CONNECTIONS

- Antenna: BNC socket
- Headset: Receptacle for 0.25" phone plug
- Computer interface: USB connector

POWER

- 12 volts DC nominal:
- Internal:

• External:

PHYSICAL

•	Size:	

• Weight: 2.5 kg (5.6 lbs) External power cord, battery charger, Accessories (included): Win Rec off-load software, PC download cable, instruction manual • Accessories (optional): external battery pack

ENVIRONMENTAL

• Operating temperature: -20°C to +50°C -70°C to +60°C • Storage temperature: • Humidity: 95% non-condensing

WARRANTY

• One year parts and labor on materials and workmanship

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- Stationary Mode: Frequency • Table # (1-12)

 - Store rate

Manual Mode:

- Date and time • Antenna # Pulse rate

Channel # and frequency

Stationary Mode:

- Signal strength
- GPS: SMA socket
- Aux. Port: DB15 for external digital control
- External power/recharge
- receptacle: 4-pin circular

200 mA (GPS off); 350 mA (GPS on) 4Ah Nickel-Metal Hydride; 8-hours operating time with GPS on 10 to 18 V DC external

13 cm wide x 20 cm long x 21 cm high (5 x 8 x 8.3") Headset, GPS antenna, clone cable, padded case,