

ATS R4520CD System II Coded Receiver/Datalogger

World's Most Reliable Transmitters and Tracking Systems



Simple to use control panel to select transmitter codes *One, None or All*



Cover twice the distance with pinpoint accuracy and unmatched speed

Manage your frequency allocation by tracking up to 25 tags on one frequency with ATS.

The new R4520CD System II Receiver/Datalogger from ATS allows you to detect multiple tags on the same frequency. It is the industry's only receiver that allows you to isolate and track individual tags while other tags are also present on the same frequency.

With the R4520CD you can track 25 animals on one channel and know precisely which animals are within range. Press the select *One* Button to track your specified animal. All with 99.95% accuracy.

Plus, the sensitivity of the receiver has been increased, and is now 10dB greater than the previous model. You'll locate targets up to twice as far away as previously available. There's also a digital port to control antenna switching, a GOES transmitter, or an ATS Remote Data Communication Platform (RDP).

With the on-board GPS receiver, you can log location data at the touch of a button while aerial tracking. Or at unmanned tracking stations, log signal strength data in 100K of data storage.

It's the planet's most advanced, most affordable tracking receiver. Just what you would expect from ATS. Finding Solutions. Delivering Results.

- Screen Out and Track a Selected Tag From up to 25 Co-located Tags
- Sensitivity Improved 10dB for More Than Twice the Range
- Enhanced DSP Processing Virtually Eliminates Noise and 'False Positive' Detections
- GPS Receiver On-Board
- Receiver And Datalogger In One Integrated Unit
- 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

TRANSMITTERS
RECEIVERS
GPS SYSTEMS


ADVANCED TELEMETRY SYSTEMS

ANTENNAS
CODED ID SYSTEMS
CONSULTING

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ATS

ADVANCED TELEMETRY SYSTEMS

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ATS R4520CD System II Coded Receiver/Datalogger

GENERAL

- Frequency range: Any specified 4 MHz range from 140 to 220 or 30 to 52 MHz
- Channel spacing: 1 kHz
- Input impedance: 50 ohms
- Minimum discernible signal (MDS): -150 dBm (0.007 uv into 50 ohms)
- Noise figure: 3 dB maximum
- Speaker: 8 ohms
- DSP signal detection range: ± 2 kHz
- DSP signal detection level: -143 dBm minimum
- Frequency stability: ± 1 kHz -20°C to +50°C
- IF frequency: 10.7 Mhz
- IF bandwidth: 6 dB ± 2 kHz; 80 dB ± 7 kHz
- Image rejection: >150 dB
- RF gain control range: >130 dB
- Operating voltage range: 9 to 18 V DC
- Dwell time (scan rate): 1 second to 5 minutes

MODES & OPERATOR INPUTS

Manual Mode:

- Manual operation
- Isolate TX codes: one, all or none

Aerial Mode:

- Isolate TX Codes: one, all or none
- Frequency
- Table # (1-12)
- Scan rate
- GPS (On/Off)

PC Mode:

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

Clone Mode:

- Transfer tables from one R4520C (Master) to another R4520C

Stationary Mode:

- Frequency
- Table # (1-12)
- Scan time
- Time out
- Store rate

- Antennas scanned (1-8)

- Remote Data Platform (RDP) or GOES (On/Off)
- Reference transmitter (Yes/No)
- Reference transmitter store rate

DISPLAY (4 line by 20 characters)

Aerial/Manual Mode:

- All detected TX codes displayed using scroll function
- Frequency (Manual mode)
- Table #, channel # and frequency (Aerial mode)
- GPS status
- Signal strength
- Battery status

Stationary Mode:

- Table #, channel # and frequency
- Date and time
- Antenna #
- Signal strength

CONNECTIONS

- Antenna: BNC socket
- Headset: Receptacle for 0.25" phone plug
- Computer interface: USB connector
- GPS: SMA socket
- Aux. Port: DB15 for external digital control
- External power/recharge receptacle: 4-pin circular

POWER

- 12 volts DC nominal: 170 mA (GPS off); 220 mA (GPS on)
- Internal: 4Ah Nickel-Metal Hydride; 18-hours operating time with GPS on
- External: 10 to 18 V DC external

PHYSICAL

- Size: 13 cm wide x 20 cm long x 21 cm high (5 x 8 x 8.3")
- Weight: 2.5 kg (5.6 lbs)
- Accessories (included): External power cord, battery charger, Win Rec off-load software, PC download cable, instruction manual
- Accessories (optional): Headset, GPS antenna, clone cable, padded case, external battery pack

ENVIRONMENTAL

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

WARRANTY

- One year parts and labor on materials and workmanship

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