ATS R2000 / R4000 Scientific Receivers

∭Finding Solutions. Delivering Results.



With performance features and proven reliability, these receivers are an exceptional value.

ATS models R2000 and R4000 are excellent receivers for most aerial, terrestrial and aquatic studies. They offer leading edge technology and outstanding performance.

Both models feature programmable, automatic or manual scanning over a 2 MHz or 4 MHz frequency range. Their 1 kHz channel spacing tracks up to 200 or 400 targets. The user-friendly front panel gives the operator full control over all functions including scan rate, add/delete frequencies, RF gain, audio level, tone decoder threshold, and more. Both units feature state-of-the-art circuitry for exceptional sensitivity, frequency stability, and low noise.

Both receivers are designed for easy field operation. Their large 1/2" LCD display is backlit for night use. A padded Nylon case, battery charger, power cord and detailed operation manual are included with each receiver.

The R2000 and R4000 are lightweight, compact and ruggedly built to withstand heavy field use and extreme environmental conditions. Each can be powered by an external 12 volt DC battery or its own built-in NiCad battery pack for up to 8 hours of use.

ATS R2000 and R4000 receivers offer high performance with high value.

TRANSMITTERS RECEIVERS GPS SYSTEMS



- 2 or 4 MHz Frequency Range
- 1 kHz Channel Spacing
- Improved RF Gain Control For More Precise Direction Finding
- Excellent Frequency Stability
- High Sensitivity/Low Noise
- Sensitive Signal Meter
- Ruggedly Built For Field Use
- Easy Operation
- 4 Distinct Memory Banks (R4000)
- Built-in Computer Interface (R4000)
- Delta Tune Drift Compensation
- Rechargeable NiCad Batteries
- Separate RF Gain And Audio Level Controls
- Battery-Backed Memory
- Auto-Shut Off On Low Battery For Longer Battery Life

ANTENNA SYSTEMS CODED ID SYSTEMS CONSULTING

WWW.ATSTRACK.COM

MINNESOTA. 763-444-9267

SALES@ATSTRACK.COM

Finding Solutions. **Delivering Results.**



1 kHz

50 ohms

8 ohms

3 dB maximum

+4 kHz; -4 kHz

9 to 18 volts DC

10.7 MHz

>150 dB

>130 dB

Increment frequency up/down

• Memory bank select (R4000)

Auto scan/memory bypass

• Tone decoder threshold (R4000)

LCD (0.5" digits) with backlight for night use

± 2 kHz (Model R4000)

± 1 kHz -20°C to +50°C

6 dB ± 2 kHz; 80 dB ± 7 kHz

GENERAL

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

CONTROLS

- Frequency selectors (4)
- Audio level
- Delta tune
- RF gain

MEMORY

- All frequencies programmable in each bank
- Four distinct banks (R4000) • Sequentially scanned
- Battery backed

Colon in display indicates frequency stored in memory

"Lo Bat" indicator flashes when battery voltage is low

"+" present in display indicates detection by tone decoder (R4000)

Delete all frequencies in each bank

Selectable, 2 sec. to 16 min. (10 positions)

• Delete frequencies individually with single switch while scanning or on standby

 Receiver on/off • Dwell time (scan rate)

Stop scan

· Add-delete to memory

R2000 Any Specified 2 MHz range from 30 to 220 MHz R4000 Any Specified 4 MHz range from 140 to 220 MHz

-150 dBm (0.007 uv into 50 ohms)

-120 dBm minimum (Model R4000)

- DISPLAYS
- Selected frequency:
- Memory status:
- Battery status:
- Signal detection: Signal level:

CONNECTIONS

- Antenna:
- Computer interface (R4000):
 - 1.2 amp-hour NiCad battery pack; 8-hour nominal operating time

• 12 volt DC unregulated

Signal strength

2.3 kg (5 lbs)

9 to 18 volts, negative ground; switches automatically to external power

• Tone decoder output (active low)

nylon case, instruction manual

external battery pack

11 cm wide x 21 cm long x 18 cm high (4.3" x 8.3" x 7")

External power cord, battery charger, padded

David Clark aviation-grade headset, DC-DC charger,

COMPUTER INTERFACE (R4000)

- 4 digits BCD (active high)
- Computer control select
- 5 volt DC regulated (5 mA max.)

٠	Size:
	147 1 1 1

- ENVIRONMENTAL
- Operating temperature:
- Storage temperature:
- Humidity:

-20°C to +50°C -70°C to +60°C 95% non-condensing

WARRANTY

• One year parts and labor on materials and workmanship

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TRANSMITTERS RECEIVERS **GPS SYSTEMS** CONSULTING

ADVANCED TELEMETRY SYSTEMS 470 FIRST AVE N - BOX 398 - ISANTI, MN 55040 763-444-9267 • 763-444-9384 fax email:sales@atstrack.com • www.atstrack.com

ANTENNA SYSTEMS CODED ID SYSTEMS

BNC - female Receptacle for 0.25" phone plug 0.125" phone receptacle for external 0.1 mA current meter 25-pin D-sub filtered connection (socket)

- POWER • 12 volts DC nominal: Internal* • External:
- Headset: Signal level: • External power/recharge receptacle: 5-pin DIN

- PHYSICAL

• Weight:

- Accessories (included):
- Accessories (optional):

130 mA drain nominal

0-1 mA meter