

Sporty's® Air Scan®

Operator's Manual



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Simplified Directions

1. Turn the unit on (push and hold red power button for 2 seconds).
2. Select AIR (Aviation), AUX (wired auxiliary input), BT (Bluetooth®), FM, or AM by pushing the **SOURCE** key until the desired source appears on the screen.
3. Using the keypad, enter the desired frequency.
4. Listen and enjoy.

Directions for Sporty's® Exclusive Aviation Interrupt™ Feature

1. To use the Aviation Interrupt feature, frequencies must first be stored in the aviation band memory.
 - A) Select AIR by pushing the **SOURCE** key until AIR appears on the screen.
 - B) Using the keypad, enter the desired frequency, such as 122.975.
 - C) Press the **Preset** key to enter into preset mode.
 - D) Press and hold the number key (0-9) of the preset location where the frequency is to be stored. Hold number key 2 seconds; Air Scan will beep indicating that the frequency has been stored.
 - E) To store up to nine more memory frequencies, repeat steps A-D.
2. Select the source you would like to listen to: AIR, AUX, BT, FM, or AM.
3. To activate Aviation Interrupt, press the **Aviation Interrupt** button. Now you can listen to any source without missing an important aviation transmission.
4. Press the **Aviation Interrupt** button a second time to exit Aviation Interrupt and return to normal mode.

Directions for Deleting All Stored Memory Channels

1. Hold down the **Clear** button while turning on the Air Scan.

NOTE: There is no way to reverse this process.

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Introduction

This manual contains only operational information relative to Sporty's® Air Scan®. This manual is not intended as a service or maintenance manual and does not contain any theory or schematic diagrams.

Sporty's Air Scan is a desktop scanner with Aviation/AUX/Bluetooth/FM/AM sources and an exclusive Aviation Interrupt™ feature. It is ideal for use in your home, office or hangar.

Features:

- Aviation Interrupt — exclusive feature allows you to listen to the ballgame, talk radio or music and never miss an important aviation transmission.
- Aviation frequencies (117.975 MHz to 1710 MHz)
- 25 kHz spacing on Aviation band
- AM broadcast frequencies (520 kHz to 1710 kHz)
- FM broadcast frequencies (88.0 MHz to 108.0 MHz)
- Bluetooth/Aux In
- Stereo speakers
- Thirty memory channels (10 from each band: AM/FM/Aviation)
- Full feature scanner — scan the entire frequency range on each band (AM/FM/Aviation)
- External power, antenna, and speaker options

Warranty

Our Limited Warranty is simple. If, in the first three years, your Air Scan® radio fails due to defective workmanship or parts under normal use, we will replace it or repair it.

This warranty does not apply to units subject to misuse, neglect or accidents. Nor does this warranty apply to units damaged by lightning, excess current, moisture, units repaired or altered outside the factory, units with altered or removed serial numbers, or units used with unauthorized accessories.

To have your unit serviced under this warranty, return it postage paid with proof of purchase to: Sporty's Pilot Shop, 2001 Sportys Drive, Clermont County/Sporty's Airport, Batavia, Ohio 45103-9747.

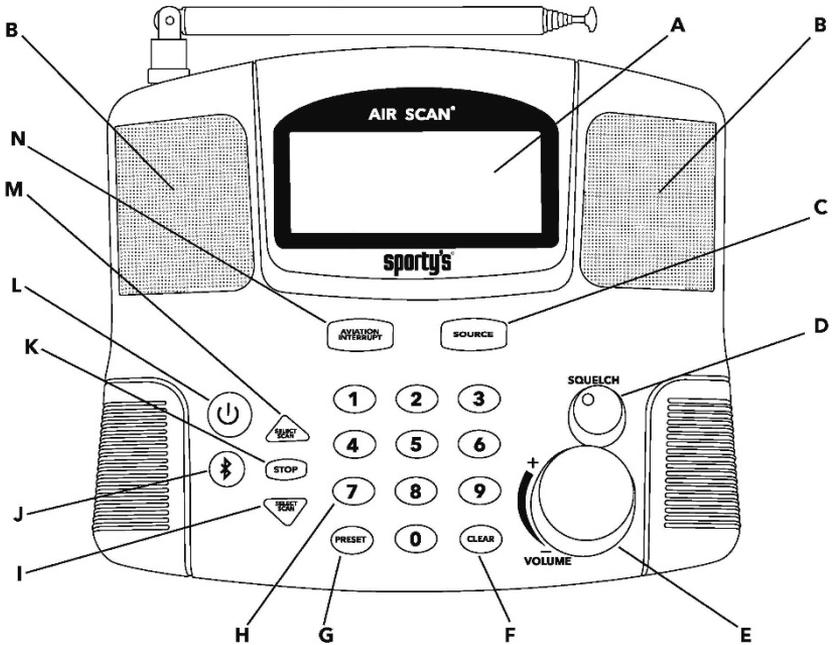
If your Air Scan is no longer under warranty, you may still have it serviced at Sporty's®. Call Sporty's Customer Service at 513.735.9000 for instructions.

Precautions

- Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.
- Never attempt to service this unit yourself. It should be referred to qualified service personnel. Please read the *Warranty* section in this manual.
- If liquid spills or some solid object falls onto the unit, have the unit checked by a qualified person before further operation.
- Do not leave the radio near heat sources, such as radiators or air ducts, or place the radio in an environment where it will be subjected to moisture, excessive dust, shock or mechanical vibration.
- Never touch an external antenna when the danger of lightning is present.
- Abrasive cleaners or chemical solvents may mar or damage the case. Clean the transceiver with a soft cloth dampened with a mild detergent solution.

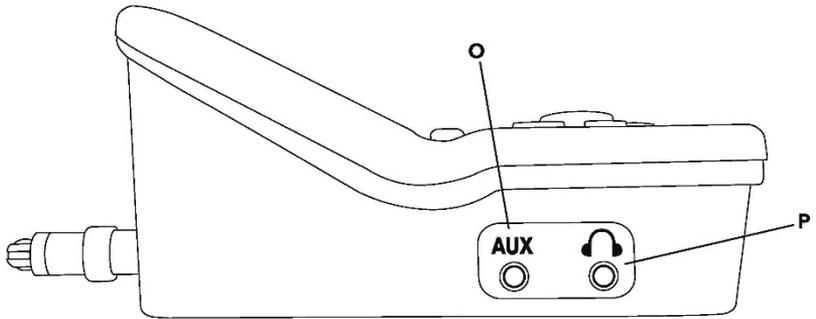
Controls

front view



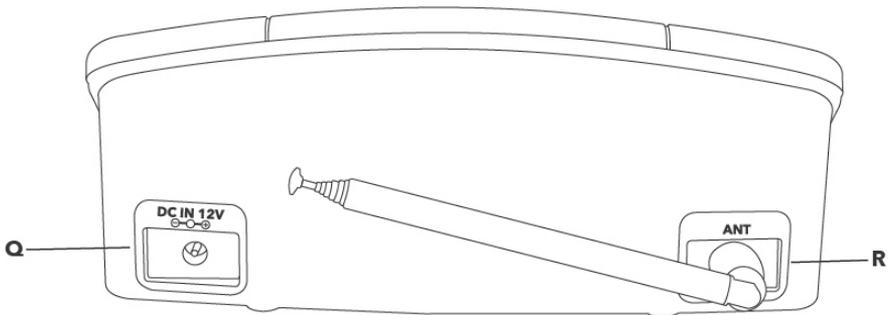
Controls

left view



Controls

rear view



This section serves only to identify and briefly describe the Air Scan®'s external features. Please see the *Operating Instructions* section for detailed instructions on the use of the Air Scan.

Front View

(A) Screen

This LCD displays the current source and frequency.

(B) Internal Stereo Speakers

(C) Source Button

This button is used to select the source (AIR, AUX, BT, FM or AM).

(D) Squelch

Rotate clockwise to increase squelch and counter-clockwise to decrease squelch on the Aviation band.

(E) Volume

Rotate clockwise to increase volume, rotate counter-clockwise to decrease volume.

(F) Clear Button

This button is used to clear erroneous entries and to exit functions such as search, scan, memory storage and recall. It is also used to delete individual memory channels and to delete all memory channels.

(G) Preset Button

This button is used to enter preset mode. Preset mode is used to store frequencies in one of the 30 memory channels (10 per band). Preset mode is also used to recall stored frequencies from the 30 memory channels.

(H) Numeric Keypad

These buttons are used whenever the Air Scan requires a numeric input, such as setting the frequency.

(I) Down Button

This button is used to select the next lower frequency and to initiate search and scan functions.

(J) Bluetooth Button

This button is used to pair a phone, tablet or computer to the Air Scan.

(K) Stop Button

This button is used to stop the search and scan functions.

(L) On/Off Button

Press and hold button for two seconds to turn on/off.

(M) Up Button

This button is used to select the next higher frequency and to initiate search and scan functions.

(N) Aviation Interrupt Button

This button is used to activate and deactivate the exclusive Aviation Interrupt™ feature.

Left Side View

(O) AUX Input

A standard 3.5 mm aux input cable (sold separately) can be used to connect a phone, tablet, radio, or computer.

(P) Earphone Jack

A standard 3.5 mm headphone may be plugged into this jack. This jack can also be used to connect external speakers. The internal speakers are disabled when this jack is used.

Rear View

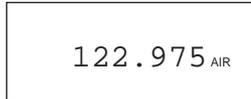
(Q) DC Input

(R) External Antenna with BNC connector

Operating Instructions

Manual Frequency Selection

The Air Scan® will receive Aviation frequencies (117.975 MHz to 137.000 MHz), AM frequencies (520 kHz to 1710 kHz) and FM frequencies (88.0 MHz to 108.0 MHz). The frequency currently selected and band are always displayed on the Air Scan's screen.



From the example above, the Air Scan is receiving 122.975 MHz. To manually enter a desired frequency, first select the proper source (AIR, FM or AM) by pressing the **SOURCE** button. The current band will be displayed on the right side of the Air Scan's screen.

Once you have selected the desired band, enter the frequency using the numeric keypad.

The Air Scan will return to the previous frequency if there is a pause of five seconds or more between button entries while entering a new frequency. The **Clear** button may be pressed any time prior to entering the last digit to clear the digits entered and return to the previous frequency.

Any frequency outside of the range of the current band will not be accepted. The Air Scan will beep when such a digit is entered. For example, starting any frequency selection with a number other than 1 on the Aviation band or attempting to place a 0, 4, 5, 6, 7, 8 or 9 in the second digit on the Aviation band will result in a beep.

Frequency Search

To manually search through the frequency range of any of the bands (AM, FM or Aviation), the **Up** button or **Down** button may be pressed at any time to select the next higher or lower frequency. This uses 10 kHz steps in the AM frequency range, 100 kHz steps in the FM frequency range and 25 kHz steps in the Aviation frequency range. The **Up** and **Down** buttons may be pressed repeatedly to continue changing the selected frequency.

To automatically search the entire frequency range of the current band for a broadcasting signal, the **Up** button or **Down** button may be pressed and held for two seconds. The screen will flash SCAN as seen below.



The frequencies will either scroll up or down depending upon whether the **Up** or **Down** button was used to initiate the search.

When a broadcasting signal is found, the Air Scan® will stop temporarily on that frequency. When the end of the frequency range is reached during an upward search, the search automatically continues searching at the beginning of the frequency range. Likewise, when the beginning of the frequency range is reached during a downward search, the search automatically continues at the end of the frequency range.

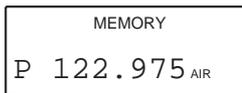
Once you have located your desired frequency, press the **STOP** button to cancel the search.

NOTE: On the Aviation band search functions differently. The Air Scan will not continue to search if a frequency is active. It is very important that the squelch be properly adjusted prior to initiating a search. The background static received with the squelch off may be strong enough to disrupt a search. If a search gets "stuck" on a frequency with too much background noise, increase the squelch or press the **Up** or **Down** button to skip that frequency and resume searching.

Storing Presets

The Air Scan® has 30 memory channels (10 AM, 10 FM, 10 AIR) numbered 0 to 9.

To store a frequency, select a desired frequency (such as 122.975) to be stored by using either manual frequency selection or frequency search. To store this frequency, press the **Preset** button. The following screen will appear:



Press and hold the number button (0-9) of the location where you would like the frequency stored. After three seconds, the Air Scan will beep and exit preset mode indicating the frequency has been stored.

You may also overwrite an existing memory channel. Enter preset mode by pressing the **Preset** button. Press and hold the number key of the channel you wish to overwrite. The Air Scan will beep and exit preset mode, indicating the channel has been overwritten and the new frequency has been stored.

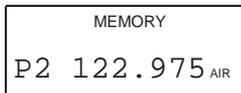
You may exit the memory function by pressing the **Clear** button any time prior to storing the frequency.

Memory Recall

To recall a frequency stored in memory, select the band (AM, FM, AIR) of the frequency you wish to recall by pressing the **SOURCE** button until it appears on the screen. Then press the **Preset** button to enter preset mode. P will be displayed on the left-hand side of the screen. Press the number button (0-9) of the frequency you wish to recall. This frequency immediately becomes the Air Scan's active frequency.

NOTE: Do not hold the number button (0-9) as this will overwrite the stored frequency.

In this example, memory channel 2 is being recalled.



You may also select any stored memory channel by pressing the **Up** or **Down** buttons to scroll through the stored frequencies. For example, to receive memory channel 5 you may:

Press the **Preset** button followed by the **Up** or **Down** button to scroll to 5.

The Air Scan will exit preset mode if a button is not pressed within five seconds. On the Aviation Band you may wish to store your airport's Unicom in memory 1, Clearance Delivery in 2, Ground Control in 3, Tower in 4, and Departure Control in 5. For this example, you would press the **Preset** key once followed by the **Up** button for every frequency change instead of having to enter each frequency manually.

Memory Clear

To erase a memory channel, select the band (AM, FM, AIR) of the frequency you wish to erase by pressing the **SOURCE** button until it appears on the screen. Then press and hold the **Clear** button and the number button (0-9) of the frequency you wish to erase. After two seconds, the Air Scan will beep, indicating the frequency has been erased.

If you are unsure of the memory channel you would like to erase you may select it by scrolling through the memory channels. First select the band (AM, FM, AIR) of the frequency you wish to erase by pressing the **SOURCE** button until it appears on the screen. Then press the **Preset** button to enter preset mode. Next press the **Up** or **Down** button to scroll through the memory channels to select the memory channel to erase. Once the desired memory channel is displayed, press and hold the **Clear** button and the number button (0-9) of the frequency you wish to erase. The Air Scan will beep, indicating the frequency has been erased.

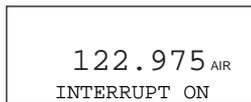
To clear every memory channel (30 memory channels: 10 AM, 10 FM, 10 AIR), hold down the **Clear** button while turning on the power. Please note, there is no way to reverse this process.

Aviation Interrupt™

This exclusive feature allows you to listen to the ballgame, talk radio or music and never miss an important aviation transmission.

NOTE: To use this feature you first must have frequencies stored in the Air Scan's Aviation band memory. Please refer to the *Frequency Memory* section of this manual for instructions on how to store frequencies in the Air Scan®.

To activate Aviation Interrupt, select the source (AIR, AUX, BT, FM, or AM) you wish to listen to, then press the **Aviation Interrupt** button. While you listen to your selected source, the Air Scan silently scans up to ten aviation memory channels for activity. If broadcast activity is found on any of these channels, the Air Scan interrupts the original source and plays the aviation transmission.



Once the transmission has ended, the Air Scan returns to the original source.



Once in Aviation Interrupt, the Air Scan will continuously scan your aviation memory channels for activity. To exit Aviation Interrupt, press the **Aviation Interrupt** button a second time.

NOTE: When Aviation is selected as the source, background scanning is not active when receiving an aviation broadcast. Once the broadcast activity ends, Aviation Interrupt will resume.

Bluetooth Connection

Equipped with Bluetooth, the Air Scan can easily pair to a smartphone, tablet or computer for playing music from Spotify, Pandora or your favorite music app.

Initial pairing

To pair a device (smartphone, tablet or computer) to your Air Scan, press the **SOURCE** button until Bluetooth is the active source. **BT** will appear in the upper right of the screen. The Air Scan will chime indicating Bluetooth is on. Next the Air Scan will beep three times and the Bluetooth symbol will begin flashing.

Turn on your device's Bluetooth feature to search for the Air Scan. **AIR Scan** will be displayed on the list of detected devices on the screen of your device. Select it to pair your device to the Air Scan. The Air Scan will beep, the Bluetooth symbol will stop flashing and the Air Scan will chime. The device is now paired with the Air Scan.



Once a device is paired to the Air Scan there is no need to pair it again. You may listen to the paired device by simply selecting Bluetooth as the source and waiting for the connected device to become active. The paired device is active when the Bluetooth symbol stops flashing, the Air Scan beeps and chimes.

NOTE: The Air Scan can only be paired with one device at a time.

To reset Bluetooth pairing, hold the **Bluetooth** button for two seconds. The Air Scan will beep twice and the Bluetooth symbol will begin flashing indicating it is in pairing mode.

Next repeat the initial pairing steps from above.

To turn Bluetooth on or off, press the **Bluetooth** button for one second.

Key Tone (Beep)

To deactivate the key tone function of the Air Scan, press and hold the **STOP** button for two seconds. The Air Scan will beep, indicating that the key tone function as been deactivated.

The key tone function is also activated by pressing and holding the **STOP** button for two seconds. The Air Scan will beep, indicating that the key tone function as been activated.

The key tone function is set in the "on" position at the factory.

General

Receive Frequencies

Aviation frequencies from 117.975 MHz to 137.000 MHz

AM Frequencies from 520 kHz to 1710 kHz

FM Frequencies from 88.0 MHz to 108.0 MHz

Memory/Priority Channels

30 channels numbered 0 to 9 (10 AIR, 10 AM, 10 FM)

Weight (including antenna)

1.80 lb

Dimensions

Height 3.25 in.

Width 9.20 in.

Depth 6.50 in.

Operating Temperature Range

14°F to 122°F (-10° C to 50° C)

Power Supply Requirement

External 9 - 12.0 V (Wall Power Adapter)

The FCC wants you to know

This equipment has been tested and found to comply with the limits for a scanning receiver, pursuant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions.

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Scanning Legally

Your receiver covers frequencies used by some different groups including Aircraft communications and Military operations, Space-operations, Meteorological-Satellite, Space research, Mobile- satellite. It is legal to listen to almost every transmission your receiver can receive, however, there are some transmissions you should never intentionally listen to. These include:

1. Telephone conversations (private means of telephone signal transmission).
2. Any scrambled or encrypted transmissions.

According to the Electronic Communications Privacy Act (ECPA), you are subject to fines and possible imprisonment for intentionally listening to, using, or divulging the contents of such a transmission unless you have the consent of a party to the communication (unless such activity is illegal).

This receiver has been designed to prevent reception of illegal transmissions. This is done to comply with the legal requirement that receivers be manufactured so as to not be easily modifiable to pick up those transmissions. Any changes or modifications not expressly approved by Sportsman's Market, Inc. for compliance could void the user's authority to operate the equipment. Doing so could subject you to legal penalties.

We encourage responsible, legal receiver use.

Mobile use of this receiver may be unlawful or requires a permit in some areas. Check the laws in your area.

Sporty's® Air Scan® and various components are
protected under the Patent and Copyright laws of the
United States of America and other nations.

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