

iSCAN Trunking Scanner



Thank you for purchasing your iScan Trunking Scanner from **RadioShack**. Please read this user's guide before installing, setting up, and using your new scanner.

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Contents

Introduction	4
Package Contents	4
Features	5
How iSCAN Works	6
Understanding Objects	7
Conventional Frequencies	7
Trunked Radio Systems	7
Understanding the Library Organization	8
Library Copyright Notice	9
Understanding Keys and Features	10
Understanding the Display	12
Display Icons	
Channel Status Indicators	13
Setup	14
Attaching the Antenna	
Connecting an External Antenna	
Powering iSCAN	
Installing Batteries	
Using AC Power	16
Using Vehicle Power	17
Charging Ni-MH Batteries	17
Using the Main Power Cut-Off Switch	18
Connecting Earphones or Headphones	18
Connecting an External Speaker	18
Listening Safety	18
Basic Operation	19
Turn on iSCAN and Set Squelch	
Using iSCAN's Main Menu	
Programming iSCAN	
1 Browse the Library	
2 Select Objects from the Library	
3 Import Objects to Playlists	
Importing Trunked Systems	
Working with Playlists	
Enabling Playlists	26

	Renaming Playlists	.26
	Working with Objects	.27
	Browsing Objects	.27
	Playing (Scanning) Objects	.27
	Skipping Objects	.28
	Editing Objects	.29
	Changing iSCAN's Settings	.31
S	earching	33
	Signal Stalker II	
	Service Search	
	Limit Search	
v	Veather Modes	39
•	Normal Weather Mode	
	Weather Priority Mode	
	SAME Standby Mode	
	About SAME Signals	
	Programming FIPS Codes	
	Activating SAME Standby Mode	
	· · · · · · · · · · · · · · · · · · ·	
	Skywarn	.42
v	Skywarn Vorking with iSCAN's Data	
v	Vorking with iSCAN's Data	43
V	Vorking with iSCAN's Data SD Card	43 .43
v	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card	43 .43 .44
v	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card SD Card Contents	43 .43 .44 .45
	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card SD Card Contents Installing the iSCAN PC Application	43 .43 .44 .45 .46
	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card SD Card Contents Installing the iSCAN PC Application	43 .43 .44 .45 .46 50
	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card SD Card Contents Installing the iSCAN PC Application Additional Information Flash Patterns	43 .43 .44 .45 .46 50 .50
	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card SD Card Contents Installing the iSCAN PC Application Additional Information Flash Patterns Troubleshooting	43 .43 .44 .45 .46 50 .50
	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card SD Card Contents Installing the iSCAN PC Application Additional Information Flash Patterns Troubleshooting Specifications	43 .43 .44 .45 .46 50 .50 .52
	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card SD Card Contents Installing the iSCAN PC Application Additional Information Flash Patterns Troubleshooting	43 .43 .44 .45 .46 50 .50 .52 .54 .57
	Vorking with iSCAN's Data SD Card	43 .43 .44 .45 .46 50 .50 .52 .54 .57
	Vorking with iSCAN's Data SD Card Removing and Inserting the SD Card SD Card Contents Installing the iSCAN PC Application Additional Information Flash Patterns Troubleshooting	43 .43 .44 .45 .46 50 .50 .52 .57 .57 .57
	Vorking with iSCAN's Data SD Card	43 .43 .44 .45 .46 50 .52 .54 .57 .57 .57
	Vorking with iSCAN's Data SD Card	43 .43 .44 .45 .50 .52 .54 .57 .57 .57 .58 .58
	Vorking with iSCAN's Data	43 .43 .44 .45 .50 .52 .57 .57 .57 .57 .58 .58 .58

Introduction

Welcome to iSCAN, an exciting new way to enjoy the hobby of scanning two-way analog radio communications, including police, fire, EMS, amateur, government, and other channels.

iSCAN combines the simplicity and ease-of-use of a portable media player with the power and sophistication of a state-of-the-art scanning receiver. iSCAN is easy to use for both beginners and experts.

In addition, iSCAN is equipped with the entire USA RadioReference database in a special on-board Library, giving you instant access to the frequencies and systems used by public safety, local government, and business all over the United States!

Please take a few moments to read this manual carefully before using iSCAN. iSCAN is unlike any other scanner ever produced, and we want you to fully understand how it can maximize your enjoyment of the scanning hobby.

Package Contents

- iSCAN
- Antenna
- USB Cable
- SD Card (inside the scanner)
- CD-ROM
- User's Guide
- Quick Start

🛆 Warning:

- Always protect iSCAN from exposure to extreme heat or cold temperatures.
- iSCAN is not waterproof. Do not expose it to rain, extreme high humidity, or moisture.

Features

Easy-to-understand media player user interface – A simplified keypad and display with familiar Play, Pause, and Navigation controls make it easy to use your iSCAN.

The complete USA RadioReference database on SD card – The entire USA database from <u>www.radioreference.com</u> is stored on a standard SD card that is included with iSCAN, giving you access to the most comprehensive radio data available without connecting iSCAN to a computer or the Internet.

Upgradeable CPU firmware and Library – Keep your radio's firmware current with enhancements and updates as they become available using the included iSCAN PC Application.

SKYWARN Storm spotter functionality – Instant access to frequencies used by storm spotter networks. You can monitor storm conditions as they occur, and become aware of dangerous conditions before the media or emergency management officials announce them to the general public.

SAME and All Hazards weather alerting – iSCAN features a SAME Standby Mode, alerting you to severe weather and other hazards in the specific areas that you select. iSCAN can also check your local NOAA weather frequency periodically, even while scanning, and alert you when an All Hazards alert occurs.

Multi-System trunking – Scans most common analog trunked radio system signaling formats, including Motorola, EDACS, and LTR. Both talkgroup and individual call monitoring are supported.

Powerful Signal Stalker II – Quickly sweeps iSCAN's frequency ranges for transmissions from nearby sources. When a nearby transmission is found, iSCAN automatically tunes to that frequency.

Built-in service searches – Predefined service search ranges make it easy to find activity in your area.

Audible alarms and flash patterns– Programmable alarms and flash patterns can be configured to alert when specific objects are active.

Signal strength meter – Shows relative strength of received signals. **Slim, compact case** – Large speaker and one-handed operation.

How iSCAN Works

iSCAN is designed with a simplified keypad and controls similar to those used by portable media players, including \blacktriangle , \blacktriangledown , \blacklozenge , navigation keys, a **MENU** key, a **SKIP** key and a \triangleright /**II/SEL** key. iSCAN's uncluttered keypad gives you instant access to the functions that you need most while using your scanner.

iSCAN is the first handheld scanner designed to use high-capacity SD card memory. The SD card holds the entire RadioReference database for the United States, giving you the ability to automatically program your scanner without using an external software application and without connecting to the Internet. We call this special version of the RadioReference database "the Library." The SD card also holds iSCAN Playlists and your customized configuration data.

For more information about the RadioReference database, please visit <u>www.radioreference.com</u>.

To use iSCAN, you will first browse the Library to find things that you want to monitor. These things are called "scannable objects," or simply "objects." As you find objects in the Library that you want to add to the collection of objects that your radio will scan, you import them to iSCAN's Playlists. There are twenty regular Playlists in iSCAN, plus a special Skywarn Playlist for monitoring objects during severe weather.

Included with iSCAN is the companion iSCAN PC Application and a PC-USB interface cable, allowing you to add your own objects and edit the objects that are stored in iSCAN's Playlists. See **"Installing the iSCAN PC Application" on page 46** and the application's help files for more information about using the iSCAN PC Application.

Understanding Objects

iSCAN monitors two types of objects while scanning: conventional frequencies and trunking talkgroups.

Conventional Frequencies

A conventional frequency is a single radio frequency, which is usually broadcast from a radio tower or rooftop radio site. When browsing the iSCAN Library, you will most often find conventional frequencies in the **Categories** or **Agencies** sub levels under **States** or **Counties/Cities**. You know you've browsed to a conventional frequency when you see the word "*Frequencies*" on the top line of the display.

Trunked Radio Systems

A *trunked radio system* is a modern radio network allowing many different groups of radio users to share a small number of channels. Trunked radio systems are more complicated than conventional frequencies. They contain both *talkgroups* and *sites*. A talkgroup is the name of a group within the trunked system. A site is a set of control frequencies located throughout the service area of the trunked system. Unlike conventional frequencies, trunking talkgroups have dependency—at least one site from the system must be selected in order for the talkgroups to imported to playlist.

There are many different manufacturers and types of trunked radio systems, each with their own special programming requirements. iSCAN automatically programs the correct requirements whenever you import a talkgroup and site to a Playlist.

When browsing the iSCAN Library, everything you find below the **Systems** level under **States** or **Counties/Cities** is a trunked radio system with its associated talkgroups and sites. You know you've browsed to a trunked system when you see the word "*Talkgroups*" on the top line of the display.

See "Key Terminology" on page 59 for more scanning definitions.

Understanding the Library Organization

States – Pick your state; each state contains three data types: Agencies, Counties/Cities, and Systems.

Agencies – Statewide agencies such as highway patrol, emergency mgmt., state parks, etc. (Conventional frequencies)

Counties/Cities – Pick your local county or independent city; three data types: Agencies, Categories, and Systems.¹

> Agencies – Non-government businesses, airports, attractions, etc. (Conventional frequencies)

Categories – Local government and public safety. (Conventional frequencies)

Systems – Local coverage for county, city, and local entities. (Trunked systems)

Sites – Trunked system control frequencies.²

Categories – Trunked system talkgroups.

Systems – Statewide coverage for state and local entities.³ (Trunked systems)

Sites – Trunked system control frequencies.²

Categories – Trunked system talkgroups.

🗂 Notes:

- 1 The organization of data types under Counties/Cities may differ depending upon how the RadioReference volunteers decided to group the information.
- 2 At least one site must be selected for each trunked system.
- 3 Not all states have a statewide trunked radio system.

Library Copyright Notice

The data contained in iSCAN's Library is provided by special arrangement with RadioReference and is Copyright ©2009 RadioReference.com LLC who retains sole ownership of the database. We ask that you respect this copyright by adhering to the following guidelines:

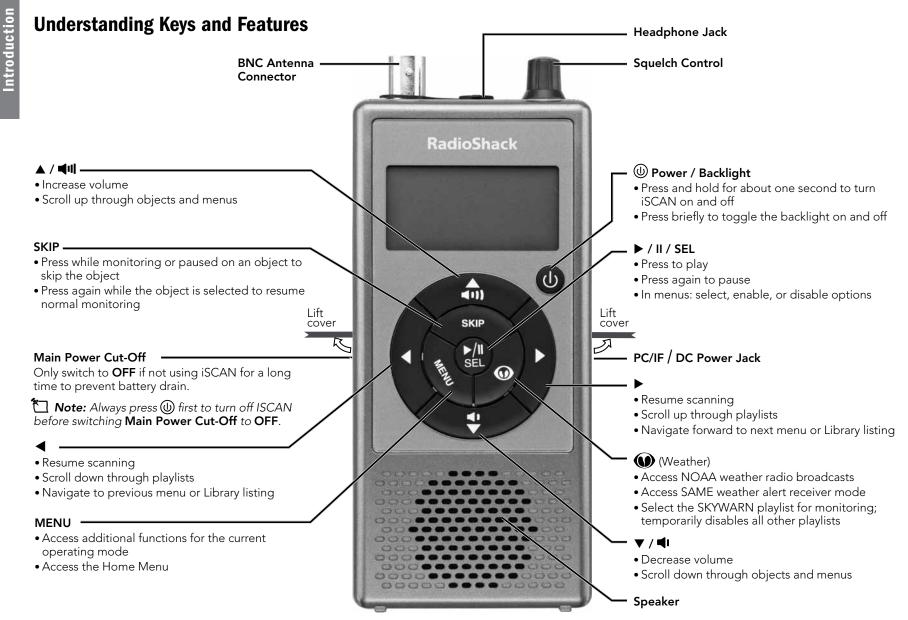
The Library data is intended for your personal use only in conjunction with programming and using your iSCAN. As such, RadioReference. com LLC grants the customer a non-exclusive single license to only be used with the iSCAN radio and its associated PC software. The Library shall not be copied or transferred to any third party in any electronic or physical form or posted on any website.

To decompile the RadioReference data base or convert it for use with another scanning receiver is expressly prohibited.

The RadioReference database is developed and maintained by unpaid volunteers who are dedicated scanning hobbyists. The accuracy of the Library data is subject to errors in the usersubmitted data reported to RadioReference, and also to the system configuration changes that a radio system operator may make from time to time. Field-testing the Library data for accuracy is not feasible.

For detailed radio system information worldwide, be sure to visit <u>www.radioreference.com</u> frequently. We encourage you to get involved with RadioReference, and submit your own new or updated data to the database, which will result in future updated editions of the Library.

RadioShack and RadioReference are not responsible for errors, omissions or outdated Library data.



11

Understanding the Display

Introduction

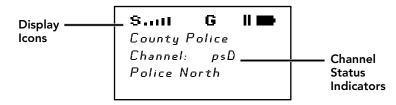
The menu-driven user interface provides access to the settings that control what iSCAN monitors. The Main Menu display is show below.



The "Now Playing" display shows a scrolling list of enabled playlists while iSCAN is scanning.



The "Individual Object Display" is shown when the scanner is monitoring activity on an object. The "Display Icons" across the top provide status information. The "Channel Status Indicators" show the status of priority, skip, lockout, and delay functions.



Note: To see more information in the Individual Object Display, disable the "Simple Display" option in the Settings Menu. (See **"Changing iSCAN's Settings" on page 31**.)

Display Icons

In the Individual Object Display, the row of icons at the top of the display provides the following status information about iSCAN:

S	Squelch circuit is open.	
	Signal meter indicating strength of the received signal.	
	The scanner is receiving trunking control channel data.	
G	G Attenuator is set for Global Mode.	
A	Attenuator is active.	
►	▶ iSCAN is in Play Mode (scanning).	
II	iSCAN is in Pause Mode (monitoring a single object).	
-	Battery status indicator. All black indicates battery is fully charged. An animated icon indicates the Ni-MH battery is being charged (Battery Type Selection switch must be set to NI-MH and radio connected to external power).	
Ðv	External power indicator. Present when iSCAN is connected to external power and Battery Type Selection switch is set to ALKA. Also present when Battery Type Selection switch is set to NI-MH and the charge cycle has completed.	

Channel Status Indicators

In the Individual Object Display, three characters on the right-hand side indicate the status of priority, skip, lockout, and delay.

Ρ	priority on	р	priority off
S	skip on	S	skip off
L	lockout on	-	-
D	delay on	d	delay off

Setup

Setup

Attaching the Antenna

- **1.** Align the slots on the antenna's connector with the posts on iSCAN's connector and slide the antenna in place.
- **2.** Rotate the antenna's BNC connector clockwise until it snaps in place.

Connecting an External Antenna

To connect an external antenna, follow the installation instructions supplied with the antenna. Use 50-ohm coaxial cable, such as RG-58 or RG-8X, to connect an outdoor antenna.

- For lengths between 50 and 100 feet, use RG-8X low-loss dielectric coaxial cable.
- For lengths over 100 feet, use RG8.

You also may need a BNC adapter (available at your local **RadioShack** store).

▲ Warning: Use extreme caution when installing or removing an outdoor antenna. If the antenna starts to fall, let it go! It could contact overhead power lines. If the antenna touches a power line, touching the antenna, mast, cable, or guy wires can cause electrocution and death. Call the power company to remove the antenna. DO NOT attempt to do so yourself.

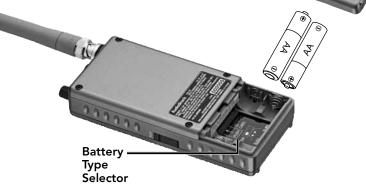


Powering iSCAN

Installing Batteries

Warning: Always power off iSCAN by pressing and holding (1) before removing batteries. Failure to power off iSCAN may cause data loss or memory corruption.

- 1. Power off iSCAN.
- 2. Remove the battery compartment cover.
- Set the Battery Type Selector switch to ALKA for nonrechargeable alkaline batteries or NI-MH for rechargeable Ni-MH batteries.
- **4.** Insert two AA batteries, matching the polarity symbols (+ and –) marked inside.
- **4.** Replace the battery compartment cover.



Warning: Never install alkaline batteries with the **Battery Type Selector** switch set to **NI-MH**. Alkaline batteries can get hot or explode if you try to recharge them.

Recycle Rechargeable Batteries



Placing rechargeable batteries in the trash can be harmful to the environment. Instead, recycle old rechargeable batteries at your local **RadioShack** store free of charge. **RadioShack** participates in the RBRC© battery recycling program, and is committed to preserving the environment and conserving natural resources. Call 1-800-THE-SHACK (1-800-843-7422) for more information.

Setup

Battery Notes:

- A low battery warning sounds every 30 seconds (default setting) when the batteries are nearly depleted.
- Dispose of batteries promptly and properly. Do not burn or bury them.
- Use only fresh batteries of the required size and type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- Discontinue use of any battery that exhibits leakage, swelling, or abnormal generation of heat.
- If you do not plan to use the iSCAN for a month or longer, remove the batteries. Batteries can leak chemicals that can damage electronic parts.

Using AC Power

Setup

- 1. Press and hold (1) to power off iSCAN.
- Plug the mini-USB end of the supplied USB cable into the PC/IF jack and connect the USB end to a USB power source, such as your computer or an AC USB power adapter (not included, available at your local RadioShack or RadioShack.com).
- 3. Slide Main Power Cut-Off to the ON position.
- **4.** Press and hold 0 to power on iSCAN.

🗂 Notes:

- PC/IF —
- Some USB power adapters generate RF noise that can interfere with iSCAN's reception.
- To prevent corruption of SD card data, always power off iSCAN using (1) before connecting or disconnecting external power sources.
- External electric power is supplied to the iSCAN through USB bus power (DC 5V 500mA).

Using Vehicle Power

- 1. Press and hold (1) to power off iSCAN.
- Plug the mini-USB end of the supplied USB cable into the PC/IF jack and connect the USB end to a car DC USB power adapter (not included, available at your local *RadioShack* or <u>RadioShack.com</u>).
- 3. Slide Main Power Cut-Off to the ON position.
- 4. Press and hold (1) to power on iSCAN.

Note: If you use a cigarette-lighter USB power cable and your vehicle's engine is running, you might hear electrical noise from the engine while scanning. This is normal.

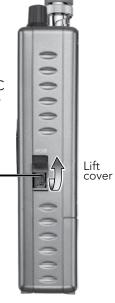
Charging Ni-MH Batteries

- 1. Press and hold (1) to power off iSCAN.
- 2. Make sure Ni-MH batteries are installed and the **Battery Type** Selector switch is set to **NI-MH**.
- **3.** Plug the mini-USB end of the USB cable into the **PC/IF** slot and connect the USB end to a USB power source, such as your computer or an AC USB power adapter.
- **4.** The animated battery icon indicates the batteries are being charged.
- When

 → appears instead of
 →, the batteries are fully charged.
 High-capacity batteries may take up to 16 hours to charge.
- 6. Disconnect iSCAN from the power source.

🗂 Notes:

- You can use iSCAN while charging batteries, but it is not recommended. The charging current decreases and charging time becomes long.
- Do not over-charge rechargeable batteries. Overcharging shortens battery life.



Using the Main Power Cut-Off Switch

The **Main Power Cut-Off** switch is only used to prevent battery drain when iSCAN is not used for long periods of time. Do not use the **Main Power Cut-Off** switch on a routine basis.

Always press and hold (1) to turn off iSCAN before switching the **Main Power Cut-Off** switch to **OFF** and before removing the batteries. Failure to turn off iSCAN using (1) may result in data loss or corrupted memory on the SD card.

Warning: The **Main Power Cut-Off** switch will not protect your iSCAN from damage due to battery leakage when iSCAN is stored for long periods of time. Always remove the batteries from iSCAN when placing it into long-term storage.

Connecting Earphones or Headphones

For private listening, you can plug $1/_8$ inch (3.5 mm) mini-plug earphones or headphones (not supplied) in the **HEADPHONE** jack on top of iSCAN. This automatically disconnects the internal speaker.

Connecting an External Speaker

In a noisy area, an amplified speaker (not included, available at your local *RadioShack* or <u>*RadioShack.com*</u>) might provide more comfortable listening. Plug the speaker cable's ¹/₈ inch (3.5 mm) miniplug into iSCAN's **HEADPHONE** jack.

Listening Safety

Do not wear headphones, earphones, or earbuds while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas. To protect your hearing, follow these guidelines:

- Do not listen at high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Set the volume to the lowest setting. Then turn on your iSCAN and adjust the volume to a comfortable level.
- Avoid increasing the volume. Your ears will adapt to the volume level, so a level that does not cause discomfort could still damage your hearing.

Basic Operation

Turn on iSCAN and Set Squelch

- 1. Slide Main Power Cut-Off to the ON position.
- 2. Press and hold (1).
- **3.** Turn **SQUELCH** to the midpoint (12 o'clock) position.



Using iSCAN's Main Menu

The heart of iSCAN's user interface is the Main Menu, where all the major functions are controlled. The following options are available in the Main Menu:

Play	Begin playback (scanning) of imported objects in enabled playlists. See "Programming iSCAN" below for more information.	
Browse Objects	Browse the objects that you have imported into playlists.	
Playlists	Enable, disable, or rename playlists. See "Enabling Playlists" and "Renaming Playlists" on page 26 .	
Search	Access Signal Stalker II, Service Search, and Limit Search Modes. See "Searching" on page 33 .	
Browse Library	Access the Library, where you can browse and pick objects to import into Playlists.	
Restore Skipped	Restore all skipped objects so they will be scanned again in Play Mode.	
Settings	Access the Settings Menu. See "Changing iSCAN's Settings" on page 31 .	

Programming iSCAN

Programming iSCAN consists of three easy steps to transfer new objects from the Library to iSCAN's playlists. After programming, you will need to enable playlists and then you can begin scanning (see page 26).

1. Browse the Library	Browse iSCAN's Library to find objects that you want to monitor. See "Understanding the Library Organization" on page 8 for more information about the Library.
2. Select objects	When you find objects that you want to monitor, select them to be imported into playlists.
3. Import objects	Select one or more playlists where you want the objects to be imported.

(1) Browse the Library

- 1. Press and hold (1) to turn on iSCAN. The Main Menu displays.
- **2.** Press $\mathbf{\nabla}$ to scroll to **Browse** *Library*, then press \triangleright to advance to Select State.
- **3.** Press \blacktriangle or \blacktriangledown to scroll to your state, then press \blacktriangleright to advance to state data types.
- 4. Scroll to either Agencies, Counties/Cities, or Systems, then press ▶. (See **"Understanding the** Library Organization" on page 8 for more information about state data types.)
- 5. Continue to explore the available options. Press \blacktriangleright to advance or "drill in." Press ◀ to navigate backward or "drill out."

-Main Menu- Play Browse Objects Playlists Search Browse Library	•
Select State: Alabama Alaska Arizona Arkansas California	•
Select State: Texas Utah Vermont Virgin Islands Virginia	•
Texas data types: Agencies Counties/Cities Systems	•
Select County: Tarrant Taylor	•

Basic Operation

Basic Operation

Terrell

Throkmorton

Terry

(2) Select Objects from the Library

- **1.** As you drill into each Library grouping, you will eventually see checkboxes (\Box) next to the listings. These listings can be imported to a playlist.
- **2.** Continue to drill into the listings to see all the objects available in the grouping.
- 3. Press ►/II/SEL when you find an object or grouping you want to import. A checkmark (\checkmark) appears next to the object or grouping. (Press ►/II/SEL again to unselect.)

Notes:

Basic Operation

- See "Importing Trunked Systems" on page 24 for more instructions on importing trunked systems.
- A "D" in place of a checkbox indicates that the object or system is fully digital and cannot be monitored with this version of iSCAN.
- An "S" in place of a checkbox indicates that the trunked system is not supported by the scanner (e.g. MPT 1327, LTR Passport, etc.)
- A solid checkbox (■) indicates that some frequencies in a subcategory are selected, but not all.
- All selected objects and groupings will be imported into the same playlist or group of playlists that you pick in step 3.
- You can pick as many objects as you want from the Library for importing to playlists.
- When you select an entire grouping, all objects associated with that grouping are also selected.



Subcategories in Cateooru: Six Flags Över

Frequencies in Subcateooru ▶ □ Security Ride Operation Hurricane Harb Hurricane Harb

Frequencies in Subcategory √ Security ► √ Ride Operation Hurricane Harb Hurricane Harb

Import Objects to Playlists

- 1. Press MENU after you've selected all the objects from the Library that you want to import.
- 2. Press ►/II/SEL at *import* **Selected**. A list of playlists displays.
- 3. Scroll to each playlist you want the selected objects to import into and press ►/II/SEL. A checkmark appears next to each selected playlist.
- **4.** Press **◄** to begin importing the selected objects into the selected playlists. (This may take several minutes.)
 - Press ►/II/SEL to continue.
- ัไว่ Notes:
- We recommend first-time users select a small number of objects and import them to a single playlist.
- As you become more familiar with using playlists, you could create your own organizational strategies. For example, you can group objects according to type, such as, Police, Fire, Racing, etc. Or you could group objects according to their geographical area.

Plaulists for chosen objects: ► V Playlist 001 DPlaylist 002 □Playlist 003 DPlaylist 004

▶Import Selected

Library

Rark

Main Menu

- Plaulists for chosen objects: √Plaulist 001 ► √ Playlist 002 DPlaylist 003 DPlaulist 004
- Importing: Channels 2 new: П changed: SEL to continue

Basic Operation

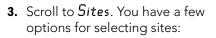
If you select an entire grouping, you may have an excessively large number of objects imported to a playlist, so be sure you want to monitor everything that a grouping contains. iSCAN only monitors one transmission at a time, and trying to scan too many objects may be slow if they are frequently busy.

Importing Trunked Systems

The same three programming steps are followed for importing trunked systems, except that during step "② Select Objects from the Library" on page 22, one or more sites must be also be selected along with any individual talkgroup objects.

- 1. Scroll to the Systems data type (either under the **States** or Counties/Cities level) and press **>**.
- **Note:** Not all states have a Systems data type.
- 2. Scroll to the system you are interested in and press \blacktriangleright .

Basic Operation



• Press ►/II/SEL to select all sites. A \checkmark appears next to Sites. When scanning, iSCAN will automatically use the best available site.



Select System in county: DFW Communicat United Parcel Oncor Energy DFW Airport Pu



-or-

- Press b to see a list of available sites.
 - If only one site is listed, press ►/II/SEL to select it.
 - If more than one site is listed, press ►/II/SEL to place checkmarks next to the sites closest to your location.
- 4. Scroll back to *Categories* to select your talkgroups. You can either:
- Press ►/II/SEL to select all talkgroups in the category. A \checkmark appears next to the category

-or-

- Press ▶ to see a list of available talkgroups. Drill into the listed talkgroups and press ►/II/SEL to select the talkgroups you want to monitor.
- 5. Follow the steps in "(3) Import Objects to Playlists" on page 23 to import your trunked system to a playlist.

Notes:

- You can also select the entire system and iSCAN will monitor all talkgroups and automatically use the best available site. However, this could result in an excessively large number of objects imported to a playlist, which can slow your scanning time with unwanted talkgroups.
- Talkgroups will not be imported to a playlist unless one or more sites in the system are also selected.

System Sites Cedar Hill D Dallas √Fort Worth Richardson ► √ Grapevine

Categories in System: DFort Hood (US √Oncor Electric

Talkgroups

in Category:

Doncor Dispatch DFB-DIST

Oncor Dispatch

► ✓ Oncor Dispatch

24

Working with Playlists

Before you can begin monitoring your imported objects, you must **enable** the playlists where your objects are stored. You can also give your playlists descriptive names.

Enabling Playlists

 In the Main Menu, scroll to *Playlists* and press ► to view the list of playlists.



-Plaulists-

 Press ►/II/SEL to enable a playlist for scanning. A checkmark appears next to the selected playlist.

Press ►/II/SEL again to disable a playlist.

Renaming Playlists

Basic Operation

 In the Playlists Menu, press ► to edit the name.

- Press ▲ or ▼ to change the letter, number, or symbol. Hold down ▲ or ▼ to scroll quickly.
- Press ◀ or ► to move the cursor to another digit.





4. When finished, press ►/II/SEL to save.

Press **MENU** to return to the playlists menu without saving.

Playlist Name: Fort Wort ▲ ▶ moves cursor SEL=OK. MENU=Back

Note: You can change the names of the playlists using the iSCAN PC Application. See **"Installing the iSCAN PC Application" on page 46** and the application's help files for more information.

Working with Objects

Browsing Objects

- 1. Press MENU until the Main Menu is displayed.
- 2. Scroll to Browse Objects and press ►.
- **3.** Press \blacktriangleleft or \blacktriangleright to scroll through the playlists.
- 4. Press \blacktriangle and \blacktriangledown to review the objects in each playlist.

Playing (Scanning) Objects

You can play a single object or scan all objects in enabled playlists. You can also pause iSCAN on a single object while it is scanning.

To play objects while browsing:

- 1. Browse to the object you want to play by following the steps for "Browsing Objects" above.
- 2. Press ►/II/SEL to play the selected object.

Press ►/II/SEL again to scan all objects in enabled playlists.

To scan all active objects in enabled playlists:

- **1.** Press **MENU** to display the Main Menu.
- **2.** Scroll to Play, then press \blacktriangleright or \blacktriangleright /II/SEL to begin playing.

►

Basic Operation

To pause on an active object:

- 1. Press ►/II/SEL while iSCAN is stopped on the object.
- 2. To resume scanning, press ►/II/SEL again.

Skipping Objects

You can "skip" objects you no longer want to monitor while scanning or browsing objects. You can also restore skipped objects.

To skip objects while scanning:

- 1. Press SKIP when iSCAN stops on an unwanted object.
- 2. iSCAN marks the object as skipped and you will not receive further transmissions on the object until it is restored.

To resume scanning without skipping the object:

- 1. Press ◀ or ▶ when iSCAN stops on an object.
- **2.** iSCAN will interrupt the current transmission and begin scanning again, but will continue to receive further transmissions on the object.

To skip objects while browsing:

Basic Operation

- 1. Browse to the object you want to skip and press SKIP.
- The lower-case "s" in the Channel Display Indicator turns to upper-case "S" to indicate the object is skipped.

To restore all skipped objects:

- 1. Press MENU to display the Main Menu.
- 2. Scroll to *Restore Skipped* and press ►.

To restore skipped objects one at a time:

- **1.** Browse to the skipped object you want to restore and press **SKIP**.
- The upper-case "S" in the Channel Display Indicator turns to lower-case "s" to indicate the object is no longer skipped.

Editing Objects

You can edit the objects in your playlists using iSCAN or the PC Application. See **"Installing the iSCAN PC Application" on page 46** and the application's help files for more information.

To edit objects using iSCAN:

Press $\ensuremath{\textbf{MENU}}$ when iSCAN stops on an object while scanning.

-or-

- 1. Press MENU until the Main Menu is displayed.
- 2. Scroll to Browse Objects and press ►.
- **3.** Press \blacktriangleleft or \blacktriangleright to scroll through the playlists.
- 4. Press \blacktriangle and \triangledown to scroll to the object you want to edit.
- 5. Press **MENU** to activate the Object Edit Menu.
- **6.** Press \blacktriangle and \triangledown to scroll to the option you wish to change.
- **7.** Press \blacktriangleright to toggle values or proceed to the next step.

The following options are available in the Object Edit Menu:

–Object Edit– Menu		
Main Menu	Navigates to iSCAN's Main Menu	
Cancel changes	Exits the Object Menu without saving changes	
Save changes	Saves your changes and exits the Object Menu	
Alpha Tag	Change the name of the selected object. Follow the on- screen instructions and press \blacktriangle , \blacktriangledown , \blacklozenge , \blacklozenge to change the object name.	
Set Playlists	Change the playlists that the selected object is a member of. Press ▶/II/SEL to change playlist membership by adding or removing checkmarks next to the playlists. Press ◀ to save and return to the Object Menu.	

r turns to ipped.

–Object Edit– Menu		
Locked Out	When checked, the selected object will not be scanned and the Locked Out status is not changed when the Main Menu's "Restore Skipped" utility is used. Locked Out objects are indicated by an " L " in the Channel Status Indicator, for example, " $\rho L D$ " indicates that the object is locked out.	
Skipped	When checked, the selected object is skipped and will not be scanned. Skipped status is restored when the Main Menu's "Restore Skipped" utility is used. See also "Skipping Objects" on page 28 .	
Priority	When checked, priority is enabled for the selected object. Priority causes the scanner to check for activity more fre- quently. Priority status is indicated in the Channel Status Indicator: Lower case " p " indicates that priority is not enabled for the object, and upper case " P " indicates that priority is enabled for the object.	
	 Note: Priority Mode must be enabled in the Settings Menu to use the Priority feature. See "Changing iSCAN's Settings" on page 31. 	
Delay	When checked, delay is enabled for the selected object. Delay causes the scanner to wait for two seconds after a transmission to receive reply traffic before resuming scanning.	
Attenuate	When checked, attenuation is enabled for the selected object. Attenuation helps reduce interference from strong local transmitters. Attenuate is not available in the Object Menu for trunked talkgroups.	
Alarm	Defines an audible alarm that is heard whenever there is activity on the object. Press ◀ or ▶ to select the desired alarm sound.	
Light	 Defines backlight behavior for the selected object. Press or ▶ to select the desired light behavior. The options are: Leave – use default backlight settings On – turn the backlight on Flash – flash according to the Flash Pattern setting 	

Basic Operation

–Object Edit– Menu		
Flash Pattern	Defines a 32-step pattern used when the Light Mode is set to Flash. To set the Flash Pattern, follow the on-screen instructions and press \blacktriangle , \bigtriangledown , \blacklozenge , \blacklozenge , to set the pattern value. See "Flash Patterns" on page 50 for pattern codes and additional information.	
On Time	Control the backlight-on duration for each of the 32 steps in the Flash Pattern. To set the On Time, follow the on-screen instructions and press \blacktriangle , \blacktriangledown , \triangleleft , \blacktriangleright to set the On Time in 10 millisecond increments.	
Off Time	Control the backlight-off duration for each of the 32 steps in the Flash Pattern. To set the Off Time, follow the on-screen instructions and press \blacktriangle , \blacktriangledown , \triangleleft , \blacktriangleright to set the Off Time in 10 millisecond increments.	
Delete Object	Removes the object from iSCAN's working memory configu- ration. This does not alter the Library data, so if necessary, the object can be imported to iSCAN's Playlists again. To delete the current object, Press ► and follow the on-screen instructions.	

Changing iSCAN's Settings

Use the Settings Menu to customize iSCAN's factory default settings. To access the Settings Menu, press **MENU** until the Main Menu appears, scroll to *Settings*, and press \triangleright .

-Settings- Menu		
Main Menu	Jumps to the Main Menu.	
Back	Jumps back (typically to the Main Menu).	
Save Changes Saves the changes made to the Settings options.		
Default Vals	Restores all items in the Settings Menu to their factory default values.	
Simple Display	Disable this option to display more information about objects. By default, iSCAN operates with a simplified display that only shows object and playlist names.	

Basic Operation

-Settings- Menu		
Priority Mode	When checked, Priority Mode is enabled. Objects that have Priority enabled in the Object Edit Menu will be checked more frequently for activity.	
Priority Time	Controls how frequently conventional channel priority objects are checked.	
G Atten Mode	When checked, Global Attenuator mode is enabled and iSCAN applies attenuation to every object and search, ignoring the individual object's attenuation setting.	
	Note: Global Attenuation must be activated (next menu item).	
G Atten On	Activates Global Attenuation.	
Key Beeps	Enables or disables key beep sounds.	
Beep Volume	Controls the volume of key beep sounds.	
Alert Volume	Controls the volume of object and low battery alert sounds.	
Contrast	Sets the contrast of the LCD display.	
LiteMode	Sets the backlight mode to On, Stealth, Normal, Key, or Ignore.	
LiteArea	Controls whether the LCD, keypad, or both should be illuminated when the backlight is active.	
LiteTime	Controls how long the backlight stays on.	
Welcome Text 1-5	Sets the text displayed when iSCAN is first turned on.	
Blink Time 1-2	For alternating display elements, controls the amount of time each item is displayed.	
Show Radio ID	When enabled, displays the Radio ID (if available for trunk radio systems that use the Radio ID feature).	
PC/IF CCDump	When enabled, trunking control channel data is sent to the PC/IF port.	
Low Batt Time	Controls the interval (seconds) between low- battery alert sounds.	

Searching

iSCAN features three search modes: Signal Stalker II, Service Search, and Limit Search. When you find a frequency, you can store it as an object in a playlist.

Signal Stalker II

Signal Stalker II sweeps rapidly through frequency ranges in 1 MHz blocks, looking for transmissions from nearby strong signal sources.

To use Signal Stalker II:

- 1. Press MENU to access the Main Menu, scroll to Search, and press ► to enter to the Search Menu.
- **2.** Scroll to *Signal Stalker* and press \blacktriangleright to enter the Stalker Menu.
 - Select *All Bands* to perform a Signal Stalker II search on all common land mobile radio bands.
 - Select *Public Safety* to perform a faster Signal Stalker II search on frequency ranges commonly used for public safety communications.

iSCAN will immediately begin to sweep the frequency ranges you have selected.

TNote: Press SKIP to block reception of undesired signals.

To store found objects in playlists:

- 1. Press $\ensuremath{\mathsf{MENU}}$ when you find a frequency you want to store.
- 2. Select Store Channel.
- **3.** Press **SEL.** The new object is added to the first playlist and has the alpha tag "Stalker."

Searching

Note: To move the new object to another playlist or edit the alpha tag, use the Object Edit Menu (see **page 29**) or the PC Application (see **page 46**).

To change the Signal Stalker II options:

Press **MENU** while Signal Stalker II is active. The following options are available:

-Stalker- Menu			
Main Menu	Navigate back to iSCAN's Main Menu.		
Stalker Menu	Navigate back to the Signal Stalker Menu.		
Store Channel	Stores a found frequency as an object in the first playlist.		
Cancel Changes	Exit the Signal Stalker Menu without saving changes.		
Save Changes	Save your changes and exit the Signal Stalker Menu.		
Attenuator	Limits the effective range of Signal Stalker II and may help reduce interference from strong local transmitters. Press ►/II/SEL or ► to enable or disable Attenuator.		
Zeromatic	Helps iSCAN tune to exact frequencies when searching. Press ▶/II/SEL or ▶ to enable or disable Zeromatic.		
Delay	When delay is enabled, iSCAN waits for two seconds after a transmission before resuming search. Press ►/II/SEL or ► to enable or disable delay.		
Special Mode	When Special Mode is enabled, Signal Stalker II will skip any 1 MHz block where you have skipped five or more frequencies using the SKIP key. Special Mode is useful when you are close to many high power transmitters that are close together in frequency. Press ▶/II/SEL or ▶ to enable or disable Special Mode.		
Frequency Ranges	Enable or disable the frequency ranges that Signal Stalker II sweeps. Disabling unwanted frequency ranges speeds up Signal Stalker II. Press ►/II/SEL or ► to enable or disable frequency ranges.		
All Bands frequency ranges	25-54 MHzVHF Low Band108-137 MHzVHF Aircraft Band137-174 MHzVHF High Band216-300 MHz220 MHz Commercial/Amateur Band300-406 MHzUHF Military Air Band406-470 MHzUHF Band470-512 MHzUHF-T Band764-797 MHz700 MHz Band806-869 MHz800 MHz Band894-1300 MHz900 MHz Band, 23 cm Amateur Band		
Public Safety frequency ranges	33.4-46.5 MHzVHF Low Band151-170 MHzVHF High Band453-467 MHzUHF Band764-797 MHz700 MHz Band806-869 MHz800 MHz Band		

Service Search

The Service Search function is a good way to find activity on local frequencies. The Service Search function searches through frequencies used by the following radio services: Public Safety, Aircraft, Railroad, Amateur, CB, Marine, and FRS/GMRS/MURS.

To use Service Search:

- 1. Press MENU to access the Main Menu, scroll to Search, and press ► to enter to the Searches Menu.
- **2.** Scroll to *Service Search* and press \blacktriangleright to enter the Services Menu.
- 3. Select the type of Service Search you wish to perform.
- Note: Press SKIP to block reception of undesired signals.

To store found objects in playlists:

- 1. Press MENU when you find a frequency you want to store.
- 2. Select Store Channel.
- **3.** Press **SEL.** The new object is added to the first playlist and has the alpha tag "Stored Search."

Note: To move the new object to another playlist or edit the alpha tag, use the Object Edit Menu (see page 29) or the PC Application (see page 46).

To change the Service Search options:

Press **MENU** while Service Search is active. The following Service Search options are available:

	–Servi	ices– Menu
Public Safety		ly used public safety frequencies: VHF Low Band VHF High Band UHF Band 700 MHz Band 800 MHz Band

Searching

	–Services– Menu		
Aircraft	Search civilian and military air frequencies:108-118 MHzNavigation118-137 MHzCivilian Voice138-150 MHzMilitary Voice (excludes 2m Amateur)225-400 MHzMilitary Voice		
Railroad	Search the Association of American Railroads (AAR) VHF railroad frequencies used in the US and Canada.		
Amateur	Search amateur radio frequencies:28.0-29.7 MHz10m Band50-54 MHz6m Band144-148 MHz2m Band222-225 MHz1.25cm Band420-450 MHz70cm Band902-928 MHz33cm Band1240-1300 MHz23cm Band		
СВ	Search the Citizens Band radio frequencies.		
Marine	Search the VHF-FM marine radio band.		
FRS/GMRS/ MURS	Search the FRS, GMRS, MURS, DOT and STAR radio frequencies.		

To change the Service Search parameters:

Press **MENU** while any Service Search is active. The following options are available:

	–"Service X″– Menu		
Main Menu	Navigates to iSCAN's Main Menu.		
Srvc Srch Menu	enu Navigates to the Services Menu.		
Store Channel	Stores a found frequency as an object in the first playlist.		
Cancel Changes	Exits the Service Search Menu without saving changes.		
Save Changes	Saves your changes and exits the Service Search Menu.		
Attenuator	Limits the effective range of Service Search and may help reduce interference from strong local transmitters. Press ▶/II/SEL or ▶ to enable or disable Attenuator.		

	–"Service X"– Menu
Zeromatic	Helps iSCAN tune to exact frequencies when searching. Press ▶/II/SEL or ▶ to enable or disable Zeromatic. Zeromatic does not have any effect in channel-based searches such as CB, Marine and FRS/GMRS/MURS bands.
Delay	When delay is enabled, iSCAN waits for two seconds after a transmission before resuming search. Press ▶/II/ SEL or ▶ to enable or disable delay.
RX Mode	Sets the RX modulation mode to automatic, or forces AM mode or FM mode. RX Mode functions in Aircraft and Amateur bands. Press ◀ or ▶ to change.
Frequency Ranges	For Service Searches that utilize frequency ranges, this option allows you to control which ranges are searched. The Frequency Ranges option is available in the Public Safety, Aircraft and Amateur Radio Service Searches. Press ►/II/SEL or ► to enable or disable frequency ranges.

Limit Search

iSCAN's Limit Search feature allows you to configure a customized search between the lower and upper frequencies that you choose.

To use Limit Search:

- 1. Press MENU to access the Main Menu, scroll to Search, and press ► to enter to the Searches Menu.
- **2.** Scroll to *Limit Search* and press \blacktriangleright to start the Limit Search.
- To Note: Press SKIP to block reception of undesired signals.

To store found objects in playlists:

- 1. Press MENU when you find a frequency you want to store.
- 2. Select Store Channel.
- **3.** Press **SEL.** The new object is added to the first playlist and has the alpha tag "Stored Search."

Note: To move the new object to another playlist or edit the alpha tag, use the Object Edit Menu (see **page 29**) or the PC Application (see **page 46**).

Searching

To change Limit Search parameters:

Searching

Press **MENU** while Limit Search is active. The following Limit Search options are available:

	–Limits– Menu
Main Menu	Navigate to iSCAN's Main Menu.
Search Menu	Navigate to the Search Menu.
Store Channel	Stores a found frequency as an object in the first playlist.
Cancel Changes	Exit the Limits Menu without saving any changes.
Save Changes	Saves your changes and exits the Limits Menu.
Attenuator	Limits the effective range of Limit Search and may help reduce interference from strong local transmitters. Press ▶/II/SEL or ▶ to enable or disable Attenuator.
Zeromatic	Helps iSCAN tune to exact frequencies when searching. Press ▶/II/SEL or ▶ to enable or disable Zeromatic.
Delay	When delay is enabled, iSCAN waits for two seconds after a transmission before resuming search. Press ▶/II/ SEL or ▶ to enable or disable delay.
Lo	Sets the lower frequency for the Limit Search frequency range. Follow the on-screen instructions and press \blacktriangle , \blacktriangledown , \blacklozenge , to edit and save the lower frequency.
Hi	Sets the upper frequency for the Limit Search frequency range. Follow the on-screen instructions and press \blacktriangle , \blacktriangledown , \blacklozenge , to edit and save the upper frequency.

Weather Modes

iSCAN is a sophisticated and powerful NOAA weather radio receiver. You can use iSCAN to:

- Monitor 24-hour NOAA weather radio broadcasts using Normal Weather Mode.
- Monitor for severe weather broadcasts while you continue scanning other channels using Weather Priority Mode.
- Monitor for warnings received in your defined geographic area using SAME Standby Mode.
- Quickly access and monitor Skywarn repeater frequencies stored in the Skywarn playlist.

Note: Your scanner incorporates weather alert as one of its features and is an extremely sensitive high quality receiver for weather frequencies. However, the supplied flex antenna is optimized for general purpose scanning. If you use this scanner as your only means for receiving weather alerts, please check to be sure you are receiving a clear signal on the flex antenna or switch to an external antenna that gives you clear reception of a local NOAA weather broadcast.

Normal Weather Mode

Monitor the National Weather Service's NOAA weather broadcasts in your area. To listen to NOAA weather broadcasts, press (), then press \triangleleft or \triangleright to select the strongest NOAA channel for your area.

Weather Priority Mode

To receive severe weather broadcasts while you continue scanning other channels, set your local NOAA channel as the Weather Priority channel. iSCAN samples the Weather Priority channel periodically to see if the All Hazards 1050 Hz Warning Alert Tone is present. If it is, the scanner will display an alert and tune to the specified weather frequency to monitor the alert. 🎦 Note: Weather Priority does not work in all scanning modes. See the following table for Weather Priority operation.

	Normal Priority	Normal Priority	Normal Priority
	is ON and WX	is ON and WX	is OFF and WX
	Priority is ON	Priority is Off	Priority is ON
Scan (Play) Mode	Checks both Normal Priority channel and WX Priority chanel	Check only Normal Priority channel	Checks only WX Priority channel
Mode	Alert displays when 1050Hz tone is detected	No Alert	Alert displays when 1050Hz tone is detected
Signal Stalker II	No Priority	No Priority	No Priority
Mode	Operation	Operation	Operation
Search Mode	No Priority	No Priority	No Priority
	Operation	Operation	Operation
WX Mode	No Priority	No Priority	No Priority
	Operation	Operation	Operation
While Browsing Objects (-Browser- is displayed)	No Priority Operation	No Priority Operation	No Priority Operation

To set the Weather Priority channel:

- **1.** Press O, then press \blacktriangleleft or \blacktriangleright to select the strongest NOAA channel for your area.
- 2. Press **MENU** and scroll to **Priority**.
- **3.** Press \blacktriangleleft or \triangleright to select the NOAA weather radio channel that you identified in step 1.
- **4.** Scroll to *Save Changes* and press ►/II/SEL or ► to save.

SAME Standby Mode

About SAME Signals

Each weather alert is preceded with a digitally encoded SAME (Specific Area Message Encoding) signal, then a 1050 Hz tone. The SAME signal includes a **FIPS** (Federal Information Processing Standard) code and an event code that corresponds with the type of alert being sent. The FIPS code format is:

Subdivisions	State	County
0-9 (0=entire area)	01-50 (00=all states)	XXX (000=all counties)
Example: 048439 (0=entire area; 48=Texas; 439=Tarrant County)		

*** Note:** A current list of FIPS codes is located at: www.NWS.NOAA.gov/NWR indexnw.htm.

Programming FIPS Codes

You can specify SAME alerts for up to ten locations by programming the FIPS codes for the subdivision, state, or county. Before you can use SAME Standby Mode, you must program at least one FIPS code.

- **1.** Press () to activate Weather Mode, then press **MENU**.
- 2. Scroll to SAME 1 Tag and press ► to enter a name for the SAME 1 location.
- **3.** Follow the on screen instructions to create and save the name.
- 4. Scroll down to SAME 1 FIPS and press ▶ to enter a FIPS code for SAME 1.
- 5. Follow the on-screen instructions to enter and save the FIPS code for your local area.
- 6. Scroll down to SAME 1 Enable and press \rightarrow /II/SEL or \rightarrow to enable the SAME 1 location.
- 7. Repeat steps 2-6 if you want to program SAME information for other areas.
- 8. When finished, Scroll to Save Changes and press ►/II/SEL or ▶ to save changes, or press **MENU** and follow the on-screen instructions to save changes and exit.

Weather

Data

Activating SAME Standby Mode

After you have programmed FIPS codes for one or more SAME locations, you can activate SAME Standby Mode:

- Press (), then press < or > to select the strongest NOAA channel for your area.
- Press SKIP to select Standby Mode. The speaker silences and SKIP = Normal appears at the bottom of the screen.

ISCAN monitors the selected weather channel for SAME alerts that match the locations you have programmed. If a matching alert is detected, iSCAN will sound an alarm, display the type of alert on the screen, and monitor the alert message.

Note: Press **SKIP** again to return to Normal Weather Mode.

Skywarn

Many areas of the country have amateur radio repeaters that have been designated as "Skywarn" repeaters. During times of severe weather, these repeaters are used to relay reports of severe weather directly to meteorologists at a local National Weather Service forecast office. By monitoring Skywarn repeaters, you'll hear about severe weather conditions before they are reported by local radio and television media.

To monitor Skywarn, store your local Skywarn repeater frequencies as objects in the Skywarn playlist:

- 1. Browse for Skywarn frequencies in the iSCAN Library and import them to the Skywarn playlist. (See "Programming iSCAN" on page 20.)
- 2. Enable the Skywarn playlist. (See "Enabling Playlists" on page 26.)
- **3.** Quickly access the Skywarn playlist by pressing () while iSCAN is in Normal Weather Mode.

🗂 Notes:

- The Skywarn playlist works like any other playlist. It can be enabled and disabled for scanning along with the 20 regular playlists.
- When activated from Normal Weather Mode, all other playlists are temporarily disabled, and only objects mapped to the Skywarn playlist will be monitored.

Working with iSCAN's Data

SD Card

Your iSCAN comes with a 2 GB SD card already formatted, installed, and ready for use. To manage SD card contents, remove it from iSCAN and insert it into your computer's SD card slot or external SD card reader. External SD card readers are available at your local **RadioShack** store or <u>RadioShack.com</u>.

You can then use the iSCAN PC Application to:

- Access the card
- Update the Library
- Edit iSCAN's configuration and stored objects
- Backup data stored on the card
- Optimize the card
- Reformat the card if necessary

🗂 Notes:

- Reading from or writing to the SD card while it is installed in iSCAN is not supported. The SD card must be removed from iSCAN and connected to a computer using an SD card interface.
- You can purchase additional cards, format them for use with iSCAN, then use them to store different configurations or backups.
- Always use the iSCAN PC Application to format the SD card. This will ensure that the card is properly formatted for best performance in iSCAN.
- The SD card comes formatted for the standard FAT file system with a cluster size of 32k. (Note that this is not the same as the "FAT32" file system.)
- If you must reformat the SD card, or if you use additional cards (2GB or smaller), format using the FAT file system with 32k clusters.
- If you use SD cards larger than 2GB, format using FAT32 with 32k clusters.
- Formatting the SD card for other file system types may cause iSCAN to malfunction.

Removing and Inserting the SD Card

Warning: To prevent data corruption on the SD card, before removing the batteries:

- Turn iSCAN off by pressing holding ().
- Unplug from external power

Data

The SD card will be damaged if removed while the iSCAN is in operation and powered by external power.



To remove the SD card:

- 1. Turn off iSCAN by pressing and holding (.).
- 2. Unplug from external power.
- 3. Remove the battery compartment cover and the batteries.
- **4.** To eject the SD card, push the bottom of the SD card until it clicks.
- 5. Slide the SD card out of the slot.

To insert the SD card:

- 1. Position the SD card face up and slide into the slot.
- 2. Gently push in the SD card until it clicks to lock it in place.
- 3. Replace the batteries and battery compartment cover.

SD Card Contents

The following table shows the directory structure for iSCAN's SD card. You may wish to make a copy of the CDAT folder on your computer as a backup.

Warning: Modifying these directories or their contents is not recommended and may cause iSCAN to malfunction.

BTMP	Contains temporary files used by iSCAN while it is running.	
CDAT	CDAT Contains your iSCAN programming.	
DB	Contains the RadioReference Library.	
MTMP	Contains temporary files used by iSCAN while it is running.	
STMP	Contains temporary files used by iSCAN while it is running.	

SD Card Error Messages

iSCAN's SD card must be formatted correctly to work with the scanner. If the SD card is corrupted, defective, improperly formatted, improperly installed, or missing, iSCAN will report one or more of the following errors:

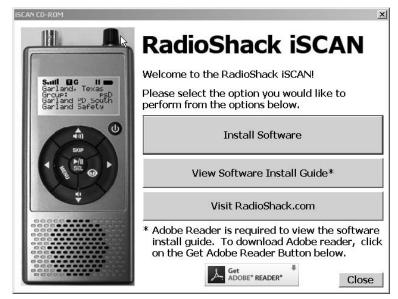
No SD card found	Unable to get an initialization response from the SD card at power-up
No file system on SD card	Unable to read valid low-level file system informa- tion (partition tables, etc.) from installed SD card at power-up
Bad file system: 32k clusters required	SD card has a cluster size other than 32k. 32k is required by iSCAN
SD Read Error	Unrecoverable error reading the SD card. Try powering iSCAN off and on again.
SD Write Error	Unrecoverable error writing the SD card. Try pow- ering iSCAN off and on again.
SD card Full!	The SD card has no more free space
SD card is not inserted	The SD card socket indicates that no SD card is inserted
SD card is write protected	The SD card socket indicates that the SD card's write-protect switch is in the "lock" or "protected" position

Installing the iSCAN PC Application

iSCAN comes with a powerful, easy-to-use PC Application used for:

- Updating the Library to the most current version
- Formatting and maintaining the SD card
- Making changes to iSCAN's programming and configuration
- Updating iSCAN's firmware for enhancements and bug fixes

Refer to the iSCAN PC Application's Help system to learn how to use the iSCAN PC Application.



To install, insert the CD into your computer's CD-ROM drive. The iSCAN Application's installer should start automatically. If it does not, navigate to your CD-ROM drive and run the iSCANCD.exe program.

To start install, click the "Install Software" button. The following components will be installed:

- The iSCAN PC Application and help files
- The current version of the frequency database Library
- The current USB cable drivers

Welcome Screen

Click "Next" to begin the installation process of the InstallAware Wizard for iSCAN.

Click "Cancel" to abort the install.

License Agreement

This is the license agreement with RadioReference.com LLC for the use of the Library files. You must accept the license agreement before you can install the software.

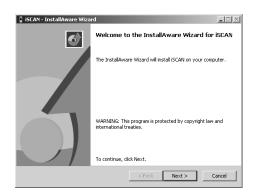
Check the Accept message checkbox and then click "Next" to begin the install.

Setup Type

Choose the options to be installed.

- "Complete" installs all parts of the iSCAN package.
- "Compact" installs the minimum required features
- "Custom" allows you to disable installation of some features.

Select the install type desired, and then click "Next."



License Agreement Please carefully read the following licen	ise agreement.		4
Copyright Notice			<u> </u>
The data contained in ISCAN's Library is prov and is Copyright ©2009 RadioReference.con database. We ask that you respect this copy	n LLC whom retains s	ole ownership of the	
The Library data is intended for your persona using your iSCAN. As such RadioReference. single license to only be used with the ISCAN shall not be copied or transferred to any 3rd on any website.	com LLC grants the c I radio and its associa	ustomer a non-excli ted PC software. T	usive — he Library
To decompile the RadioReference data base receiver is expressly prohibited.	or convert it for use	with another scann	ing 🗸
✓ I accept the terms of the license agreeme	ent		_
istalAware			

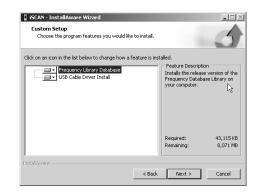
	🔋 iSCAN - InstallAware Wizard
	Setup Type Choose the setup type that is best for your needs.
parts	Please select a setup type.
	 Complete All program features will be installed. This option requires the most disk space.
res.	C Compact Program will be installed with minimum required features. This
me	may disable some application functionality. C Cugtom Choose which program features you want installed.
ed,	Recommended for advanced users. InstalAware <back next=""> Cancel</back>

Data

Custom Setup

If you selected the custom install, this screen will appear allowing you to choose the components to be installed.

Once the components have been selected, click "Next" to continue.



Destination Folder

Select the destination folder for the application and the USB cable drivers.

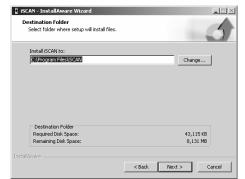
The database Library files will be installed in the **iSCAN\DB** folder located in your **My Documents** folder regardless of this setting.

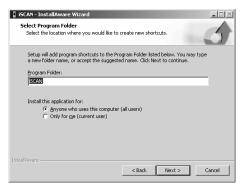
Click "Next" to continue.

Select Program Shortcuts Folder

Select the name of the folder used to store shortcuts in the Start menu.

Click "Next" to continue.

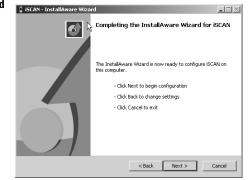




Completing the InstallAware Wizard

This is the final check before installation begins.

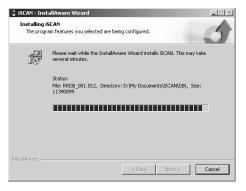
Click "Next" to perform the installation.



Installing iSCAN

This screen is shown while the selected files are being copied to the computer.

When this process is complete, click "Next" to continue.



Completing the Install

This is the final install screen. If the option to install the USB Cable drivers was selected, a DOS window with the install will be shown briefly.

To start the iSCAN Application, check the "Run iSCAN now" checkbox and click "Finish."



Additional Info

Additional Information

Flash Patterns

Additional Info

Each object uses a 32-step Flash Pattern that you can define so you can identify an active object at a glance from across the room. Flash patterns are defined in the Edit Objects Menu (see **"Editing Objects" on page 29**.).

Each step in the 32-step flash pattern defines whether the backlight is on or off for the durations specified in the "On Time" and "Off Time" settings for the object. The 32-step Flash Pattern consists of eight blocks with four steps for each block. The flash pattern within a four step block is defined using the characters 0-9 and A-F. The flash patterns for each four step block are:

0:	\odot	\odot	\odot	\odot
1:	\odot	\odot	\odot	0
2:	\odot	\odot	0	\odot
3:	\odot	\odot	0	0
4:	\odot	0	\odot	\odot
5:	\odot	0	\odot	0
6:	\odot	0	0	\odot
7:	\odot	0	0	0
8:	0	\odot	\odot	\odot
9:	0	\odot	\odot	0
A:	0	\odot	0	\odot
B:	0	\odot	0	0
C:	0	0	\odot	\odot
D:	0	0	\odot	0
E:	0	0	0	\odot
F:	0	0	0	0
0 =0	DN, ⊙=0	OFF		

The flash pattern is set for each block by specifying the number or letter associated with the desired flash pattern. Using this technique it is possible to define simple or complex flash patterns.

"On Time" and "Off Time" control the backlight on and backlight off duration for each of the 32 steps in the flash pattern. On Time and Off Time are specified in 10 millisecond increments. For example, an On Time of 50 means the light will come on for 500 milliseconds (or one-half second) for each flash pattern step where the light is set to on.

There are many different possible flash patterns possible with this feature. Here are a few that you can use to get started:

Flash pattern: 55555555, On Time: 50, Off Time: 50

These are the default values for flash pattern, On Time and Off Time. When the object is active, the LED backlight will flash on and off at a rate of one flash per second, with each flash lasting half a second.

Flash pattern: 88888888, On Time: 50, Off Time: 50

This combination causes the LED backlight to come on for a half second every two seconds.

Flash pattern: A8A8A8A8, On Time: 1, Off Time: 5

This combination creates an interesting "strobe light" effect similar to the emergency lights on a public safety vehicle.

Many more combinations are possible—you can experiment to find the ones that work for you.

Troubleshooting

Additional Info

Problem	Cause	Solution
The scanner does not turn on	No power.	Ensure that iSCAN is equipped with fresh batteries. If powering iSCAN from external power, make sure that the external power plug is fully inserted into iSCAN's PC/IF jack.
Low battery warning beeps and message on LCD display	Low batteries	Recharge rechargeable batteries, replace alkaline batteries, or plug in to external power.
Poor or no reception	Weak signals from distant stations.	Reposition for best reception. Turn SQUELCH counter-clockwise.
	Attenuator in use on weak signals.	Check performance with and without attenuator activated; use setting with best reception.
	Strong signal overload from nearby transmitter.	Check performance with and without attenuator activated; use setting with best reception.
	Loose or defec- tive antenna.	Inspect antenna and connectors and correct any problems found.
	Incorrect mod- ulation mode selected.	Ensure that proper modulation mode is selected for the type of system being monitored. If necessary, use iSCAN PC Application to change modulation mode. See "RX Mode" on page 37 .
Scanning not available shown on display	The batteries are low and all functions that write data to the SD Card (including scanning) are disabled to prevent data corruption.	Recharge or replace the batteries.

Problem	Cause	Solution
The scanner is on but does not scan	Squelch may not be adjusted correctly.	Turn the squelch control counterclockwise.
The scanner does not rec- ognize the SD Card	The SD Card is not properly formatted.	Use the iSCAN PC Application to reformat the card. If using Windows to format the card, the card format must be FAT with 32k clusters.
	The SD Card may not be inserted fully.	Press the SD Card into the slot until a click is heard and the card is fully inserted in the slot.
	The SD Card may be defective.	Replace with a new SD Card.
Init SD Card remains when the scanner is	The SD Card is not properly formatted.	Use the iSCAN PC Application to reformat the card.
turned on	The SD Card may not be inserted fully.	Press the SD Card into the slot until a click is heard and the card is fully inserted in the slot.
iSCAN does not accept a firmware upgrade	The USB cable is not plugged into the com- puter or the scanner.	Connect the USB cable to the scanner and the computer to proceed.
	The USB cable drivers are not installed.	Use the CD to install the cable drivers.

Specifications

Additional Info

Frequency Range	Step	Mode (Default)
25.0000 – 26.9600 MHz	10 kHz	AM
26.9650 – 27.4050 MHz	10 kHz	AM
27.4100 – 29.5050 MHz	5 kHz	AM
29.5100 – 29.7000 MHz	5 kHz	FM
29.7100 – 49.8300 MHz	10 kHz	FM
49.8350 – 54.0000 MHz	5 kHz	FM
108.000 – 136.9916 MHz	8.33 kHz	AM
137.000 – 137.995 MHz	5 kHz	FM
138.000 – 143.9875 MHz	12.5 kHz	AM
144.000 – 147.9950 MHz	5 kHz	FM
148.000 – 150.7875 MHz	12.5 kHz	FM
150.800 – 150.8450 MHz	5 kHz	FM
150.8525 – 154.4975 MHz	7.5 kHz	FM
154.5150 – 154.6400 MHz	5 kHz	FM
154.6500 – 156.2550 MHz	7.5 kHz	FM
156.2750 – 157.4500 MHz	25 kHz	FM
157.4700 – 161.5725 MHz	7.5 kHz	FM
161.6000 – 161.9750 MHz	5 kHz	FM
162.0000 – 174.0000 MHz	12.5 kHz	FM
216.0025 – 219.9975 MHz	5 kHz	FM
220.0000 – 224.9950 MHz	5 kHz	FM
225.0000 – 397.99375 MHz	6.25 kHz	AM
380.0000 – 419.987500 MHz	12.5 kHz	FM
420.0000 – 450.000000 MHz	5 kHz	FM
450.00625 – 469.99375 MHz	6.25 kHz	FM
470.00000 - 512.00000 MHz	6.25 kHz	FM
764.00000 – 781.996875 MHz	3.125 kHz	FM
791.00000 – 796.996875 MHz	3.125 kHz	FM
806.00000 - 823.987500 MHz	12.5 kHz	FM
849.00000 - 868.987500 MHz	12.5 kHz	FM
894.00000 - 939.987500 MHz	12.5 kHz	FM
940.00000 – 960.000000 MHz	6.25 kHz	FM
1240.0000 - 1300.00000 MHz	6.25 kHz	FM

Object capacity> 10 million, Nominal, with 2 GB SD Card
Varies depending on user configuration
Receiving modes AM, FM, FM, FM-MOT (Motorola), LTR (EF Johnson), CTCSS, DCS, EDACS wide/narrow (GE/Ericsson/HARRIS)
Receiving system Triple conversion PLL super heterodyne
WX frequencies
Display Full dot matrix bitmap LCD (96x48 dots)
Sensitivity (fm 20 dB Quieting unless otherwise noted) 0.3 μV VHF Low 0.3 μV VHF Aircraft (20 dBq AM) 1.0 μV VHF High 137-174 MHz 0.5 μV VHF High 216-300 MHz 0.5 μV UHF Low 300 - 406MHz 0.8 μV UHF/UHF-T 406 - 512 MHz 0.5 μV UHF High 764 - 960 MHz 0.7 μV 1240 - 1300 MHz 0.7 μV
Squelch sensitivity (Band center) ThresholdAM/FM 0.5 μV Tight(S+N)/N: AM 20 dB, FM 25 dB
Spurious rejectionVHF High at 154.1 MHz: 40 dB (Except Primary image)
Signal to noise ratio35-40 dB typical (100 μV input signal)
Scanning rate without Trunking138 – 147.9 MHz: 65ch/second (in 100 kHz Intervals)
Search rate
Scan and Search delay time2 seconds

Intermediate frequency

Additional Info

1st 380.8 MHz 2nd 21.4 MHz 3rd 455 kHz
Current drain
Antenna impedance
Operating temperature range10°C to 60°C
SpeakerBuilt-in 36 mm 8 Ohms dynamic speaker
Operating voltageDC 2.4 Volts (2 AA Ni-MH batteries) DC 3 Volts (2 AA alkaline batteries)
External power and charge voltageUSB Power (DC 5V 500mA)
Dimensions (HWD)
Weight
PC application softwareWindows 2000, Windows XP, Windows Vista

56

Birdie Frequencies

Every scanner has birdie frequencies. Birdies are signals created inside the scanner's receiver, which may interfere with transmissions on the same frequencies. If you program one of these frequencies, you hear only noise on that frequency. If the interference is not severe, you might be able to turn Squelch clockwise to omit the birdie.

To find the birdies in your scanner, disconnect the antenna and move it away from the scanner. Make sure that no other nearby radio or TV sets are turned on near the scanner. Search every frequency range from its lowest frequency to the highest. Occasionally, the searching will stop as if it has found a signal, often without any sound. This is a birdie. Make a list of all the birdies in your scanner for future reference.

Care

Your scanner is not waterproof. Do not expose it to rain, moisture, or extremely high humidity. If the scanner gets wet, wipe it dry immediately. Use and store the scanner only in normal temperature environments. Handle the scanner carefully; do not drop it. Keep the scanner away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Service and Repair

If your scanner is not performing as it should, take it to your local **RadioShack** store for assistance. To locate your nearest **RadioShack**, use the store locator feature on **RadioShack's** website (www.radioshack.com), or call 1-800-The Shack (800-843-7422) and follow the menu options. Modifying or tampering with the scanner's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it.

Additional Info

FCC Notice

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 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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- 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 two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Scanning Legally

Your scanner covers frequencies used by many different groups including police and fire departments, ambulance services, government agencies, private companies, amateur radio services, military operations, pager services, and wireline (telephone and telegraph) service providers. It is legal to listen to almost every transmission your scanner can receive. However, there are some transmissions you should never intentionally listen to. These include:

- Telephone conversations (cellular, cordless, or other private means of telephone signal transmission)
- Pager transmissions
- Any scrambled or encrypted transmissions

According to the Electronic Communications Privacy Act (ECPA), as amended, 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 otherwise illegal).

This scanner is designed to prevent reception of illegal transmissions, in compliance with the law which requires that scanners be manufactured in such a way as to not be easily modifiable to pick up those transmissions. Do not open your scanner's case to make any modifications that could allow it to pick up transmissions that are not legal to listen to. Doing so could subject you to legal penalties.

In some areas, mobile use of this scanner is unlawful or requires a permit. Check the laws in your area. We encourage responsible, legal scanner use.

Key Terminology

Alpha tag	Alpha-numeric object name displayed on the LCD that can be specified by a user.
Attenuator	Reduces interference due to intermodulation.
Backlight	Illuminates the LCD and/or keypad for night time use.
Channel	See "Object"
CTCSS/DCS	Continuous Tone-Coded Squelch System/Digital Coded squelch System, a squelch control system which reduces interference when using the same frequency.
EDACS	Trunking system technology provided by GE/Erics- son/MA-COM or Harris.
Image Frequency	Undesired frequency that differs from the required received frequency.
Intermodulation	Occurs when two or more strong signals mix, which generates a "false" frequency such as image frequency and distorts receiving sound.
LTR	E.F. Johnson's trunking system.

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5

Object	Location where a frequency and its associated infor- mation are stored.
Priority	Function not to miss important calls while scanning channels.
SAME	Specific Area Message Encoding system. NOAA broadcasts alerts corresponding to specified areas.
S-meter	Indicates relative signal strength of a received signal.
Scan	Search to find an active frequency through channels.
Scanner	Wideband radio receiver for performing search/scan to find an active frequency. It can receive Aircraft, CB, Fire, FRS, HAM, Militarily-air, Public safety, Railroad communication, Weather broadcast, etc.
Search	Search an active frequency though frequency bands.
Signal Stalker II	Powerful tool for rapidly finding a nearby signal.
Skip	Skips over specified frequencies or channels.
Squelch	Allows you to increase or decrease the radio's muting ability to receiving signals.
Step Size	Incremental frequency size. The frequency spacing is determined by FCC.
Skywarn	Sets the radio to monitor radio repeater frequencies to receive severe weather transmissions.
Trunked Radio System	System developed to use radio spectrum efficiently. Trunked radio systems are developed, installed and managed by several manufacturers, including Motorola, GE/Ericsson/MA-COM/Harris (EDACS) and E.F. Johnson (LTR).
Weather Alert	Special alert signal broadcast by NOAA to alert receivers to severe weather conditions.
wx	An abbreviation of Weather.

Additional Info

Limited Warranty

RadioShack warrants this product against defects in materials and workmanship under normal use by the original purchaser for **one** (1) year after the date of purchase from a **RadioShack**-owned store or an authorized **RadioShack** franchisee or dealer. **RADIOSHACK** MAKES NO OTHER EXPRESS WARRANTIES.

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Should a problem occur that is covered by this warranty, take the product and the **RadioShack** sales receipt as proof of purchase date to any **RadioShack** store in the U.S. **RadioShack** will, at its option, unless otherwise provided by law: (a) repair the product without charge for parts and labor; (b) replace the product with the same or a comparable product; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of **RadioShack**. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

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RadioShack Customer Relations

300 RadioShack Circle, Fort Worth, TX 76102

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www.RadioShack.com



information, FCC license assignments, 10 Code lists, agency maps, files, local government communications systems.

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The RadioReference Discussion Forums

Where over 120,000 members discuss radios, scanning, trunking, decoding, antennas, specialty radio topics, and location specific information.

Additional Info

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