PLAYLIST MAKER

2.4GHz
Telemetric
AFHSS
ADAPTIVE FREQUENCY HOPPING
SPREAD SPECTRUM

LYNX 4S

Playlist Maker: PC Program Manual

Introduction

Thank you for purchasing the Lynx 4S Radio by Hitec!

As Hitec's latest contribution in outstanding surface radio technology, the four-channel Lynx 4S is equipped with lightning fast 4ms response, 4096 resolution, and Hitec's unique bi-directional, Advanced Frequency Hopping Spread Spectrum (AFHSS) protocol. Feature-packed with an easy-to-use interface, the Lynx 4S design promises a more enjoyable and safer R/C experience than ever before.

One of the most unique features of the Lynx 4S is the total customizability of the various sounds the radio emits during operation as well as its ability to play music from a playlist. This manual will assist you with making a playlist for those custom sounds.

Items Required for Operation:
> PC running the Windows® Operating System (XP or Later)
> Micro SD Card (16GB or less)
> SD Card Reader

Music File Specifications:
> Type: Waveform Audio Files (.wav)
> Format: Unsigned 8bit mono PCM
> Frequency Range: 15 kKHz ~ 20 KHz

Warning	If files are not created to the above specification, playback will not operate as intended.

Installation

1. Download the installation zip file from http://hitecrcd.com/support/software-downloads

2. Unzip the file to the directory of your choice. When extracted, the Lynx 4S folder should contain the program file (Lynx4S Playlist Maker.exe), this manual, and a directory called "Sounds." Under the "Sounds" directory, you will find 2 sub-directories, "Music" and "Voice." These directories contain a variety of .wav files and a sample playlist.

3. Run the file **Lynx4S Playlist Maker.exe.** You may be prompted with a security warning like the one shown here:

Click "Install" to proceed. The Playlist Maker program will install. If installation is succesful, an icon will be created and the program will launch automatically.

Using the Lynx 4S Playlist Maker Program

The Lynx 4s Playlist Maker allows you to create a playlist using .wav files for easy listening on your Lynx 4s radio. In addition to the playlist, you can add sound bites to certain events on your Lynx 4s, like when you power on or the battery is low. You can use either .wav or MP3 files for the sounds or music and the Playlist Maker will convert them to the .wav format during the export process.

1. If the program is not already running, launch it by clicking on the icon.

User Interface:

2. Once the program launches, you will enter the main menu:

New: Start a new playlist from scratch.

Open: Open playlist files from your computer.

Add: Add songs from your music collection to the playlist.

Remove: Once a song is highlighted in the list, use this button to remove the song from the list.

Up: Move the highlighted file on the list up.

Down: Move the highlighted file on the list down.

Export: Once a playlist is created, use this button to export the list to your SD card.

Format: Format the SD card from the Playlist Maker Software.

Quit: Close the Playlist Maker program.

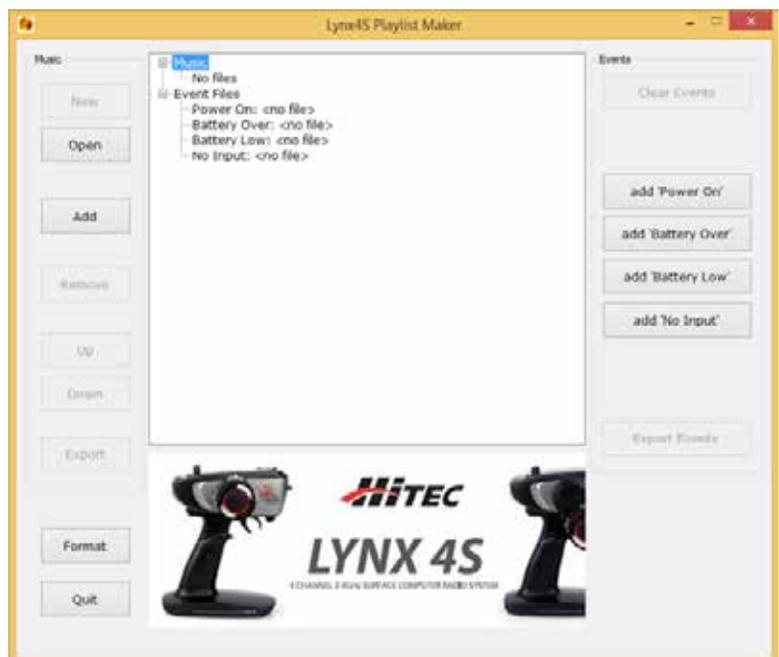**Clear Events:** Clear the entire list of Events.

Add Power On: Add sound file to the Power On function of the radio.

Add Battery Over: Add sound file for when the transmitter battery is over voltage.

Add Battery Low: Add sound file for when the transmitter battery is too low.

Add No Input: Add sound file for when there is no input present.

Export Events: Once your Event List is created, use this button to export the Events to an SD card.
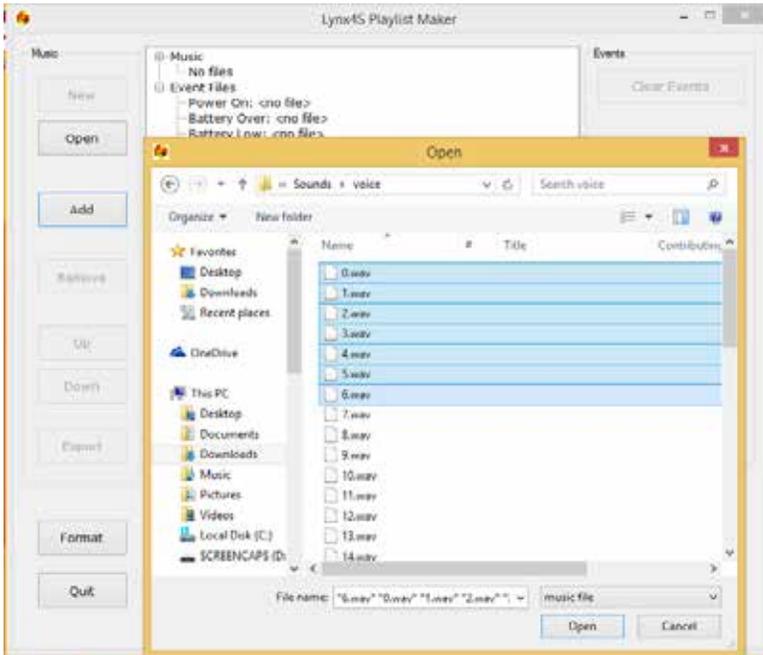
Create a New Music Play List

1. Click "Add" and navigate to the directory where your sound files are stored. Highlight the files you want to use and click the "Open" button. You can repeat this step to add more files as needed.

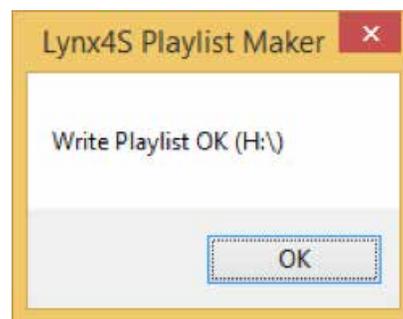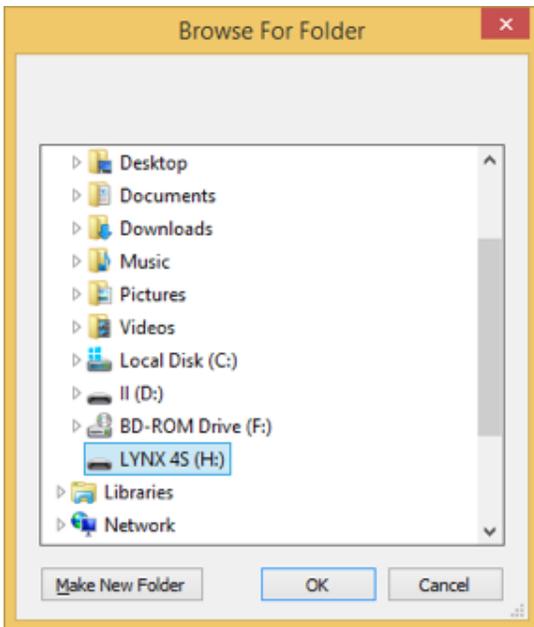| Tip	
Tip	You can highlight multiple files using [Ctrl] + Left click on your mouse function or by using the [Shift] and ^ or ∨ keys.

Create a New Music Play List [cont.]

2. All of the files you have chosen now appear under "Music" in the center screen.

3. To change the name of a file, double click on the file and enter a new name up to 20 characters long in the dialog box.

4. Once you are done selecting the files and organizing your playlist, you need to export it to an SD card. Click on "Export" and navigate to the SD card that you want to use. Click "OK" and the files will be converted and written to the SD Card.

5. If no errors are detected, you will be prompted by the Write Playlist OK screen. You can now insert the SD card into the Lynx 4S and listen to your playlist through the headphone jack.
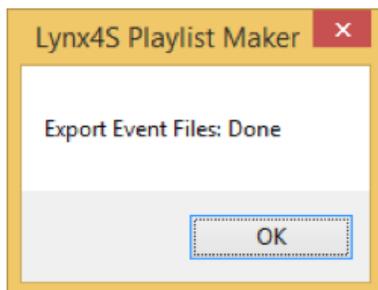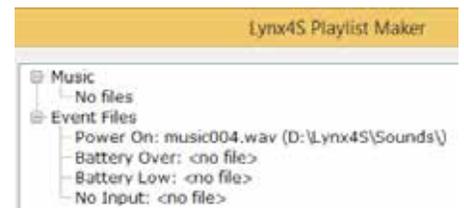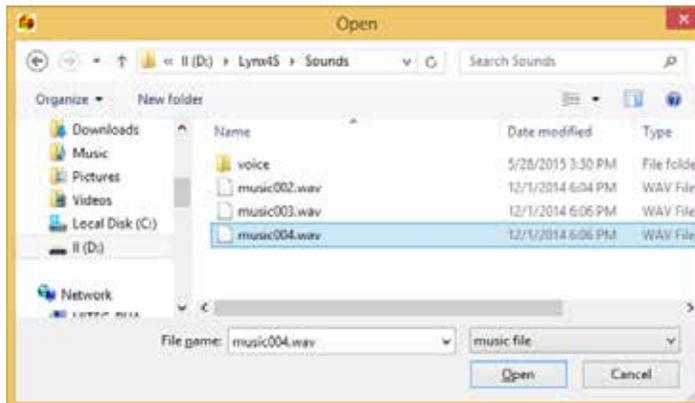
Customize Event Sounds

With the Lynx 4S and Playlist Maker, you can customize the sounds the radio plays when certain events occur, like when you turn the radio on or if the transmitter battery is running low. This section describes the process of creating custom event sounds.

1. On the right side of the Playlist Maker program is the Events section.

2. Select the event you would like customize and an "Open File" dialog box will appear. Navigate to the directory where you have your music stored, click on the file you'd like to use, and click "Open."

The file is added to the list of files that will be written to the SD card.

3. Once you have finished customizing your event sounds, you will export them to the SD card. Click on the Export Events button and navigate to the SD card where you want to store your files. Click "OK" and your files will be written to the SD card. If successful, you will be prompted by an Export Event Files: Done window. Click "OK" to finish.

4. To use these custom sounds, install the SD card in your Lynx 4S. Make sure that you have activated the event under the "Voice" menu in the SD card folder. When the event occurs, you should here your custom sound.

Telemetry Voice Files

If the Lynx 4S is being used with the Proton 4 Telemetry Receiver, you can use the voice function to hear the telemetry readings. This allows you to follow what's happening with your vehicle without having to take your eyes from it.

1. When you unzipped the Lynx 4S Playlist Maker.zip, a folder named "Voice" was created. In this folder are the files used by the Lynx 4S to make the audible prompts. These files must be transferred to the SD card before they can be used by the radio.

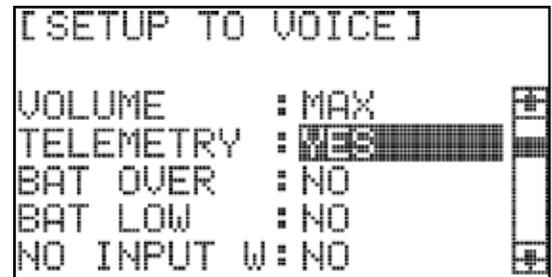2. You can transfer these files in one of two ways:
a. Copy and paste the entire directory onto the SD card.
b. Copy and paste the files into the pre-existing voice directory on the SD card.

3. Insert the SD Card into your radio.
a. From the SD Card folder choose "VOICE."

```
(SET)(SYS)(MODEL)(SDCARD)
SD-NAME    MUSIC
SD-DELETE
SD-IMPORT
SD-EXPORT
VOICE
```

b. Scroll to telemetry and select "ON."

```
[SETUP TO VOICE]

VOLUME     : MAX
TELEMETRY  : YES
BAT OVER   : NO
BAT LOW    : NO
NO INPUT W : NO
```

4. Then from the System Menu select "Sensor."

```
(SET)(SYSTEM)(MODEL)(SD)
ST-ADJ     SENSOR
TH-ADJ     MANAGEMENT
RX-BIND    TELEMETRY
RX-SCAN    VIBRATION
SERVO      BATTERY
```

Telemetry Voice Files [cont.]

a. From here you can select the type of sensor.

```
[ SENSOR ]


TEMP  : ----
VOLT  : ---
SPEED : RPM,MPH
RPM   :  0.000
MAX   : ------
```

b. Once in the sensor setting screen choose "SPEAK" and set it to Yes.

```
[ TEMP ]

SPEAK   : YES
USE     : NO
WARNING :  32
UNIT    : °F
```

5. The voice prompts should now be audible if you are using the telemetry function with the Proton 4 receiver.

Tip	You can create your own voice files by recording each prompt. The files must be .wav files and be named exactly as they are listed below.

Telemetry File Names

File Name	Prompt	File Name	Prompt
0.wav	Zero	40.wav	forty
1.wav	One	50.wav	Fifty
2.wav	Two	60.wav	Sixty
3.wav	Three	70.wav	Seventy
4.wav	Four	80.wav	Eighty
5.wav	Five	90.wav	Ninety
6.wav	Six	100.wav	One Hundred
7.wav	Seven	1000.wav	One Thousand
8.wav	Eight	battlow.wav	Battery Low
9.wav	Nine	battover.wav	Battery High
10.wav	Ten	noinput.wav	No Input
11.wav	Eleven	point.wav	Point
12.wav	Twelve	poweron.wav	Power On
13.wav	Thirteen	rpm to high.wav	RPM to High
14.wav	Fourteen	rpm to low.wav	RPM to Low
15.wav	Fifteen	rpm.wav	RPM
16.wav	Sixteen	speed.wav	Speed
17.wav	Seventeen	temp.wav	Temperature
18.wav	Eighteen	toohigh.wav	Too High
19.wav	Nineteen	toolow.wav	Too Low
20.wav	Twenty	volt.wav	Volts
30.wav	Thirty	warning.wav	Warning

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