# HEADLINE

# HLS-100

# Programming Manual for the HLD-100 Series Radios

# HeadLine

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*System Requirements*
- CPU: Pentium or higher
- OS: Windows 98 or later

*Program Installation*
1. Insert the CD-ROM into the drive. If it set for auto-run go to step 3.
2. Go to My Computer and double click on the CD-ROM drive. Typically this is labeled with the drive letter D, however it may be different on some computers. There are two files on the disk, one being the installation program and the other is this manual in PDF format.



3. Double Click on the executable file as shown above. This will bring up the following Setup Wizard.
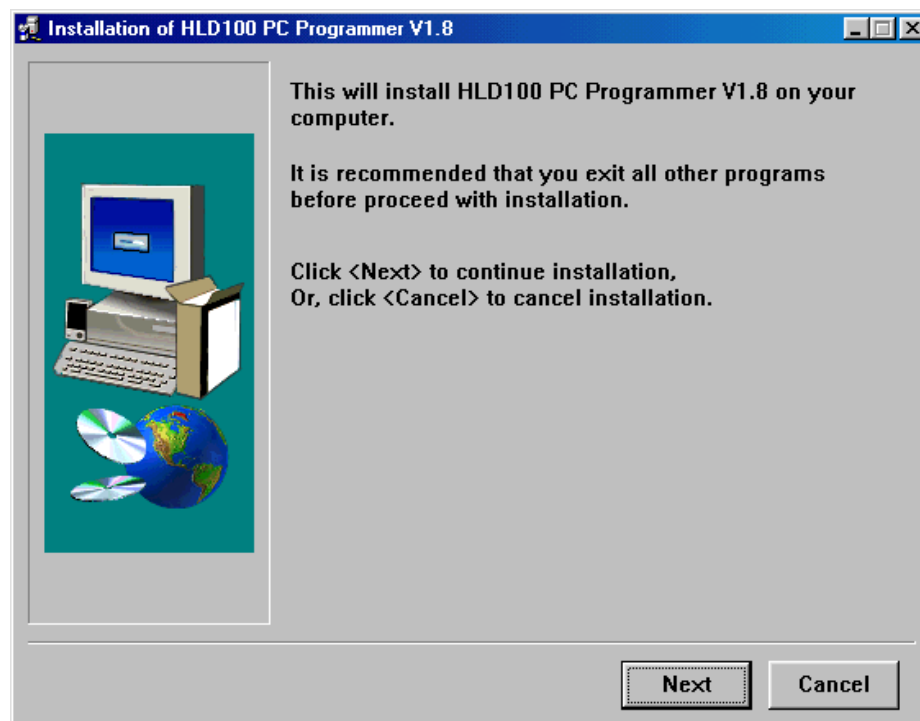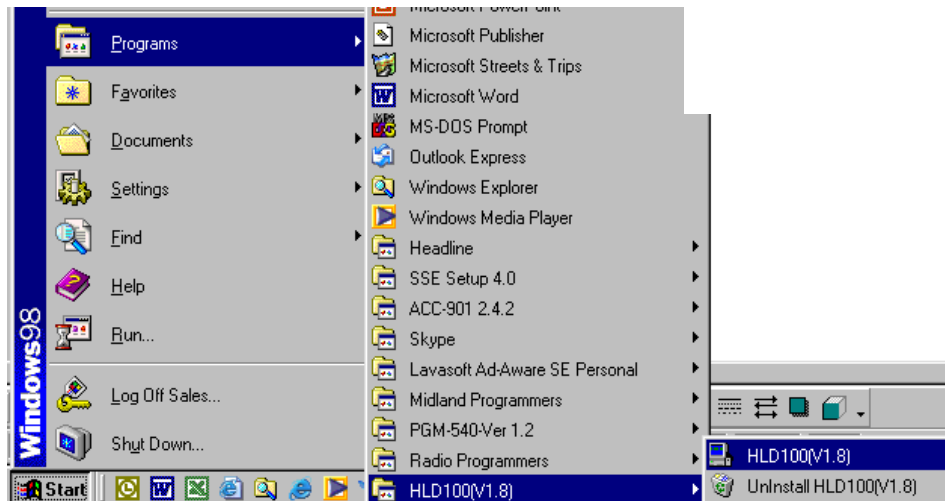


4. Follow the on-screen instructions to install the program.

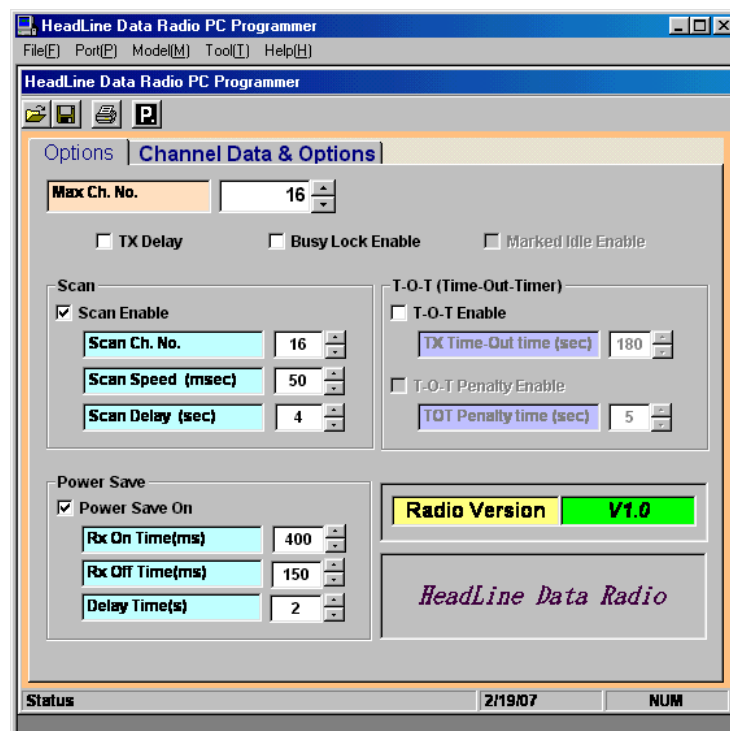*Running the program*

1. The program will be installed off of the Start bar if the default directory is used. Go to Start/Programs/HLD100 (V1.8)/HLD (V1.8).



2. The following will be displayed when the program opens.

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3. There are three options available when the program opens. They are: open an existing file, create a new file, or read a radio. First try reading the radio. This will verify the program, cable and software are all working.
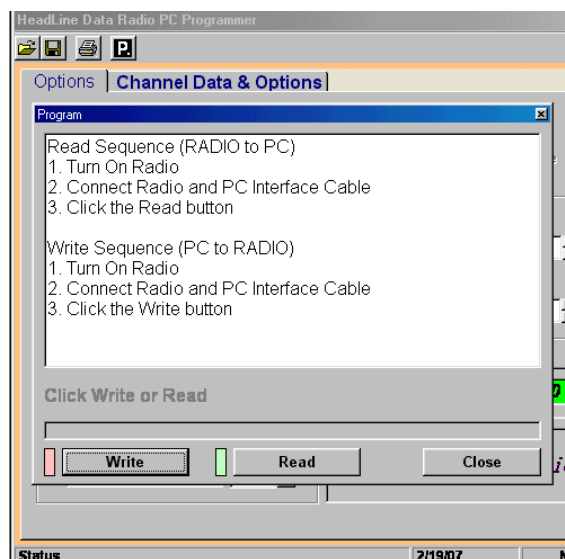
*Reading the radio*

1. Connect one end of the HLC-100 programming cable to the DB9 communication port on the computer. Both ends of the cable are DB9 female and can easily be reversed. Make sure the one labeled "Comm Port" is used.
**Note: Damage to the power supply or the computer could result if not connected properly**.
Next connect the other end to the radio. The red and black wires are used to provide power to the radio during programming. Connect the red wire to the positive side of the 12 volt power supply and the black wire to ground.

2. Select the proper communication port as shown below.
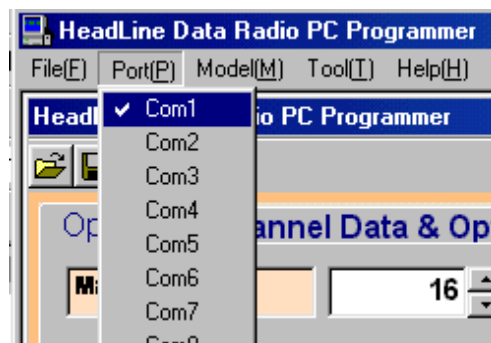


3. Click on the "P" icon or use the Tool(T) pull down menu to begin reading the radio. The following screen will be displayed.

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4. Next click on the "Read" button to begin the reading process. The blue progress bar will move from left to right. If it does not work, try resetting the power to the radio and double check your connections.

## Saving a file

At this point you may wish to save the file as the factory default program file. Click on the "File(F)" drop down menu and select "Save(S)". Under "File name" type a file name and click on the "Save" button to save the file.

## Creating a new file

Before creating a new file make sure the correct radio model is selected. On the "Model(M)" drop down menu select either the UHF or the VHF model.

## Option Tab

The Options Tab displays the radio wide options available. Below each option is described in detail:

**Max Ch. No.**
Maximum Channel Number is the number of channels to be programmed into the radio.

**TX Delay**
When CTCSS is programmed, the transmitter will be active for a preset time after cessation of the CTCSS tone. This helps eliminate squelch tails on the receiving radio.

**Busy Lock/Marked Idle**
Busy channel lockout prevents transmit if the radio receiver is busy (receiving a call). When Marked Idle is used, transmit is allowed only if the correct CTCSS or DCS code is received.

**Scan Enable**
Checking this box enables the scan mode.

**Scan Ch. No.**
The Scan Channel Number is the channel in which scan is activated. When the radio is set to the scan channel, the LED will blink green indicating it is in the scan mode.

**Scan Speed**
This is the amount of time the radio uses during scan to examine each channel in the scan list for a call. Range is from 50ms to 500ms.

**Scan Delay**
This is the length of time the radio remains on a channel after a reception or a transmission has ended. When the time expires, the radio resumes scanning. Range is from 1s to 30s.

**Power Save On**
Checking this box enables the power save feature. Power save switches the receiver on and off to conserve power. This is helpful if the radio is powered by a battery.

**RX On Time**
This is the time the receiver is on looking for a carrier. Range is from 100ms to 4s.

**RX Off Time**
This is the time the receiver is off and not looking for a carrier. Range is from 50ms to 500ms.

**Delay Time**
This is the amount of time the radio waits before going into power save mode after communication ceases. Range is from 1s to 8s.

**T-O-T Enable**
Checking this box enables the transmitter timeout timer. This timer sets the maximum amount of time the radio is allowed to transmit. The timer is reset each time PTT is enabled. Range is from 10s to 2000s.

**T-O-T Penalty Enable**
This is the amount of time when the timeout timer expires until another transmission can be made. Sometimes it is referred to as the "cool-down" time. Range if from 1s to 100s.

**Radio Version**
Displays the version of the firmware in the CPU when a radio is read.
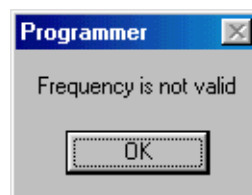
### Channel Data & Option Tab

Inputs on this tab are as follows: RX and TX frequencies, CTCSS/DCS/IDCS, High/Low TX power, entering channels into the scan list, and channel spacing.
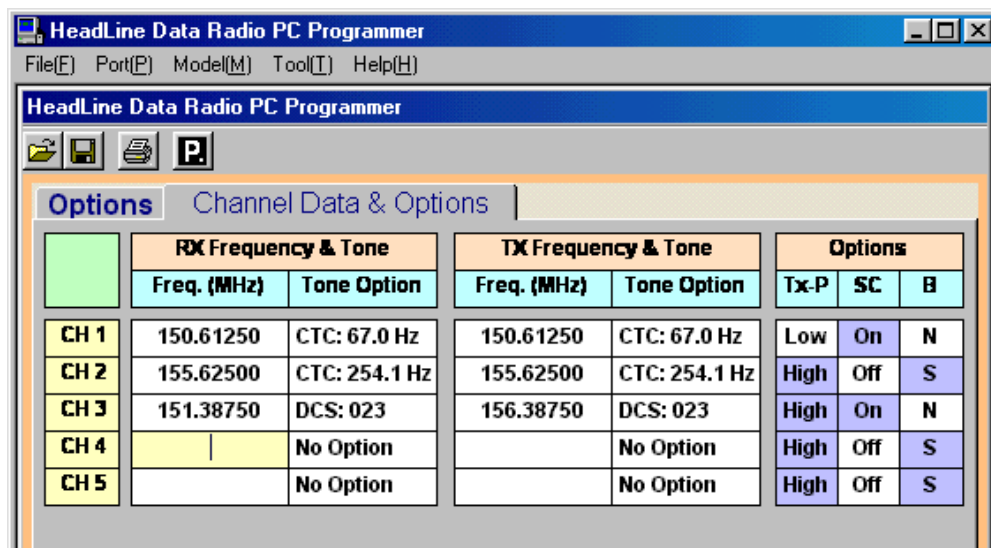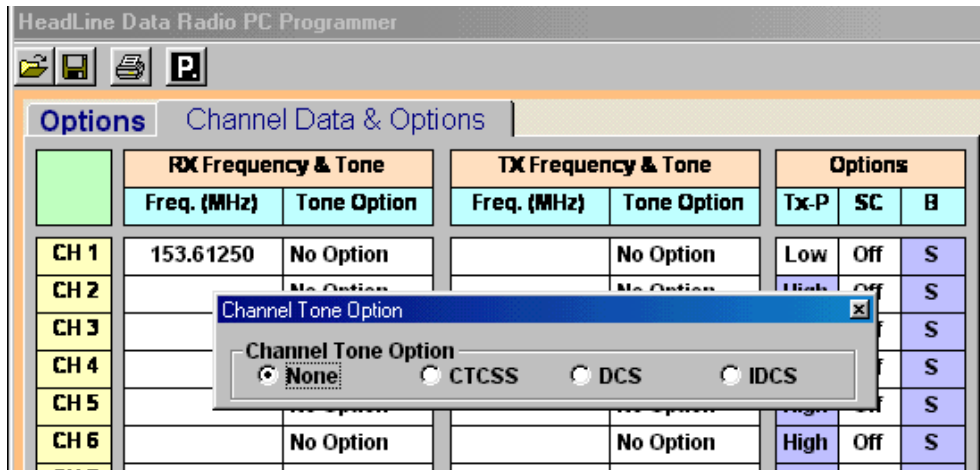


**RX Frequency & Tone**
Type in the desired frequency in MHz and press "Enter". If the frequency is not available, the following error will occur.

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To select CTCSS or DCS click on "No Option" under "Tone Option". This brings up the following screen. Next click on one of the three options. It will bring up a table where the tone or digital code can be selected.



**TX Frequency & Tone**
Input the frequency and tone by the same method as above.

**TX-P**
Transmit power can be toggled either high (5W) or low (1W) by double clicking in the field.

**SC**
To enter the channel into the scan list double click this field. It will be active when set to "On".

**B**
To change from standard band (25kHz channel spacing) to narrow band (12.5kHz channel spacing) double click this field.

*Programming the radio*

Refer to "Reading the radio" on page 5. However on step number 4 click on the "Write" button to begin programming. If problems occur, reset power to the unit, check the connections and comm. port setting.

*Default setting*

To restore the programmer default settings, go to the "File(F)" drop down menu and select "Default". This is helpful in restoring the default settings for the scan feature and the power saving mode.

*Printing the program*

To print the program simply click on the print icon  or go to the "File(F)" drop down menu and select "Print(P)".