DU-R100

User's Guide

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FCC Certifications

This equipment has been tested and found to comply with the limits for a Class B digital device, 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.

Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with emission limits.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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.

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Contents

Chapter 1 Installing the DU-R100

1-1 Hardware installation

(1). Plug DU-R100 USB flat connector into the USB port of your PC. If the PC has a sound card, plug the DU-R100's RCA cable into the existing **LINE IN** port of the sound card. If not, plug the RCA jack into any speakers. Note that the recording function is not available when running DU-R100 software in this way.

(2). The computer will detect DU-R100 and look for a driver. If a driver is not found, it will then prompt for one. At this time, make sure that your DU-R100 diskette is inserted into your computer floppy drive.

(3). The computer is now ready to install the DU-R100 driver from floppy the drive.

Antenna

USB Port

Connect to LINE IN of Sound Card
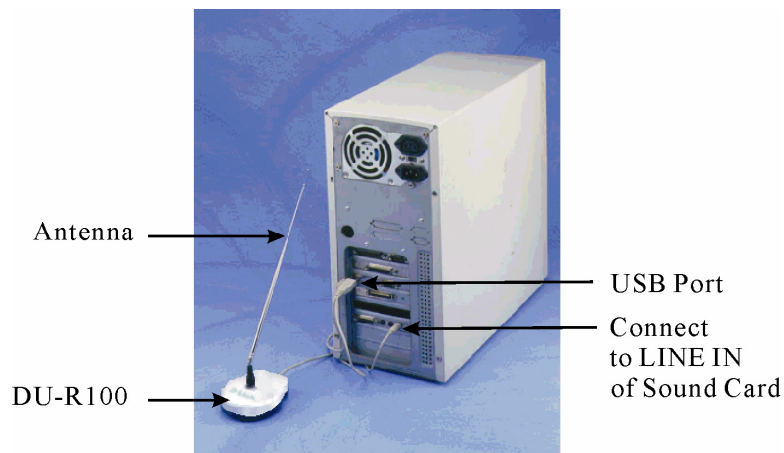
DU-R100

1-2 Software Installation

The DU-R100 comes with user applications for Windows 98. The following installation installs the application into your PC.

Installing under Windows 98

(1) Insert the DU-R100 Utility diskette into drive **A** or **B**.
(2) Click on **My Computer icon**.
(3) Select Floppy(**A:**) (where A: is your selected diskette drive)
(4) Double click on **Setup** icon.
(5) After the **Setup** program of the DU-R100 pops up, simply follow the instructions on the screen to complete the installation.

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Chapter 2   Understanding the DU-R100 Menus

The DU-R100 has three: WaveFile, Options and Help. The menus are text sensitive and can be activated easily by mouse clicks.

WaveFile Menu

The WaveFile Menu contains the following commands:

|	
New	Creates a new wave file
Open	Loads an existing wave file
Save	Saves a current wave file
Save As	Saves the wave file under a new name
Wave to MP3 utility	Converts the wave file to an MP3 file
Exit	Quits the DU-R100

Options Menu

The following commands of the Options menu allow you to change FM DU-R100's default settings:

Record Settings	Sets the default record settings
Volume Controllers Setting	Controls the playback volume of the wave file
Show Station Name	Shows the Station Name on the Preset Channel rather than the frequency
Sleep Function	Enables/disables the Sleep Function
Wake Up Function	Enables/disables the Wake Up Function

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24-Hour Clock Format	Disp... 24 hour time or AM...
LR Volume Indicator	Disp... und indicator function
Turn off Radio On Exit	Radio will stop playing once DU-R100 application is closed

Help Menu

Contents	Explains the key functions of the main panels
About	Shows the version and copyright of the DU-R100
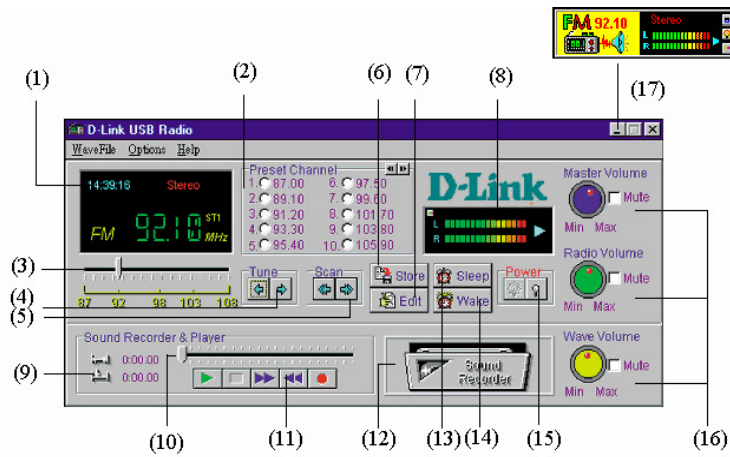
(1) Display box	Displays current station and radio station
(2) Preset Channel	Presets your favorite stations for up to 200 channels
(3) Frequency Slider	Allows you to select radio station by dragging the mouse.
(4) Tuner	Allows you to adjust frequency at 0.05 MHz intervals.
(5) Scan	Scans radio stations by clicking mouse button. Click it again to stop scanning.
(6) Store	Stores the preset channel and station name.
(7) Edit	Edits the preset channels and station names.
(8) LED display	Shows sound intensity of both left and right speakers. Clicking on this display will change to wave format.
(9) Length of the recorded file	Displays the length of the recorded file and current location of the recorded file.
(10) Sound Recorder Indictor	Acts as FF/Rewind by dragging slider
(11) Recorder, player control bar	Includes **Play**, **Rewind**, **FF**, **Stop** and **Record** functions.
(12) Animated tape recorder	Revolves while you are using the recorder. You can view free hard disk space by clicking the left mouse button.
(13)Sleep	Sets sleep time. (turns off power)
(14)Wake	Sets wake up time. (turns on power)
(15)Power on/off	Turns on/off power.
(16)Volume controls	Master volume controls speaker volume. Radio volume controls recording and output volume. Wave volume controls playback volume.
(17)Stay On Top	Toggles small window as the topmost window. You can move this small window anywhere on your desktop by dragging it with the left mouse button.

Chapter 3   How to Preset your favorite stations

3-1 Tuning:

There are two ways to select your favorite programs -

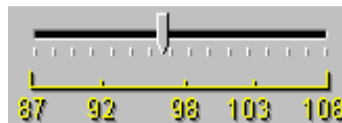> **3-1-1** Locate your favorite station by clicking the scan button
> ◆ ◆ . Click on
>
>   **Tune** button ◆ ◆ to fine tune until "**stereo**" appears on the
> LED display.
>
> **3-1-2** Hold down the left mouse button and drag to your favorite
> station.
>   Click once to fine tune..

3-2 Preset channel

Allows you to preset and customize your favorite programs by using
their names or the frequency. 200 channels (20 groups) are available.
The following explains ways to preset up to 200 channels.

3-2-1. To preset a channel with station name:

1. Select a station.

2. Click on **Store** button 🖳 Store . Store Preset Frequency and
    Station Name dialog box appears.

3. Enter the Channel Number and Station Name

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4. Click **OK** .

E.g. To set channel 3 to frequency 100.10MHz and Station Name ICRT. Set Channel Number 3 and enter "ICRT". Then click OK.   .
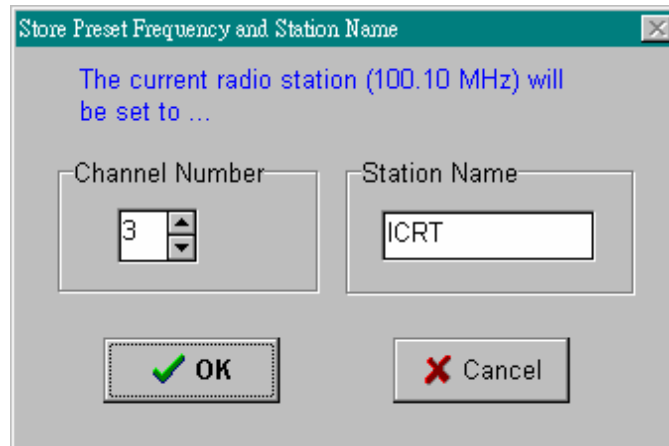
3-2-2 Editing preset channels

1. Click on **Edit** button and edit preset channel frequency and their station names.

2.Set the Channel Numbers and enter the desired Station Names.
3.Click on **OK** to confirm changes.

Chapter 4   How to use "Sleep" and "Wake up" functions

DU-R100 provide "**Sleep**" and "**Wake up**" functions to save time and catch up with your favorite programs,.
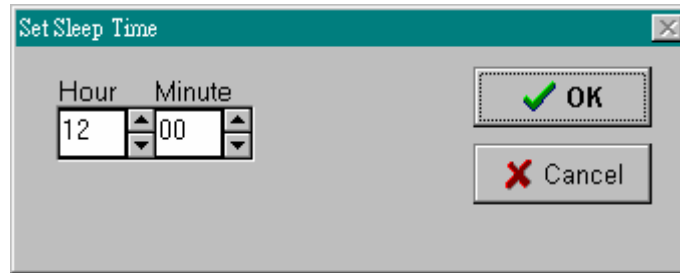
4-1. Setting Sleep Time

To set Sleep time:
>   1.Choose "**Sleep Function**" from the Options menu.
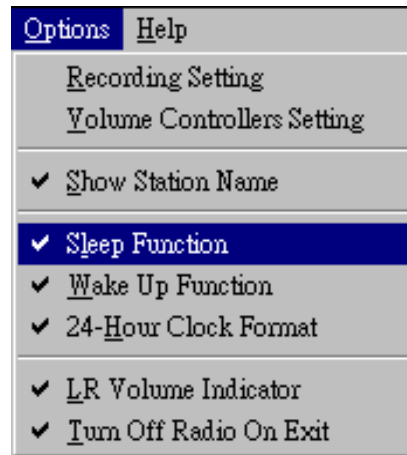
>   2. Click on the Sleep button . The **Set Sleep Time** dialog box appears as follows:

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3. Set the time.
4. Click on **OK** to confirm the setting.

The radio will turn off automatically at the selected sleep time.

4-2. Setting Wake up time

To set the **Wake up** time

1. Choose "**Wake Up Function Enabled** " from the Options menu.
2. Click on the **Wake** button 🦗 Wake , The **Set Wake Up Time** dialog box appears as follows:

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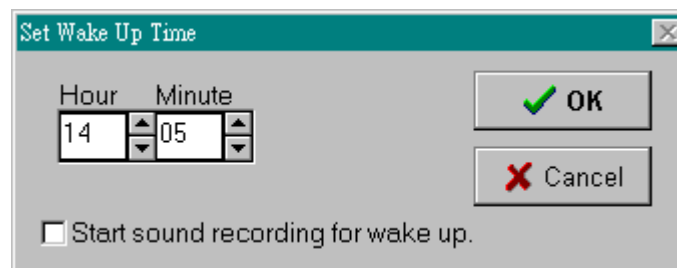
3. Set the Hour and Minute dials to your wake up time.

4. Click on **OK** to confirm the setting

The radio turns off automatically at the selected wake up time. You can also set recording time by using this function. (Please refer to Chapter 5, Section 4).

✶ IMPORTANT: The **Sleep** and **Wake Up** functions are only available when a PC is turned on and this program is in use.
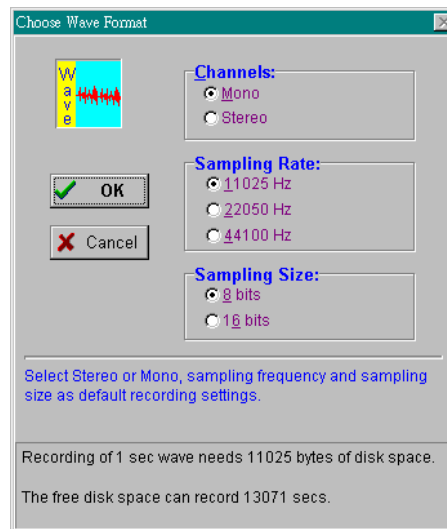
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Chapter 5   Recording and playing

5-1. Specifying Wave Formats

Before recording a wave file, make sure the correct format of the file is specified. Wave format refers to the sound channel, Sampling Rate and Size of the file.

To specify the wave format:

1. Select **Record Setting** in the **Options** menu and **Choose Wave Format** dialog box appears.

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2. Select the format for the wave file.
   Select Mono for one sound channel and Stereo for two
   sound channels.
   Select 11025Hz for voice, 22050Hz for cassette and
   44100Hz for CD quality recording.
   Select 8 bits for cassette and 16 bits for CD sound quality.
3. Choose OK.

There is a trade-off between the quality of a wave file and the
amount of storage space required for the file. A wave file with
better sound quality requires a larger storage space because of its
high sampling rate. The message in the dialog box will inform you
how much free disk space is available for recording.

5-2. How to record into Wave File

To record a wave file:

Click **Record** button. The animated tape recorder will revolve the
length and current location of recorded file will be displayed.

To stop the recording, choose the **Stop** button . You can

listen to the recorded file by pressing the **Play** button . If you
would like to know the available free space on your hard disk, just
click the Animated tape recorder and you will see the following
figure:

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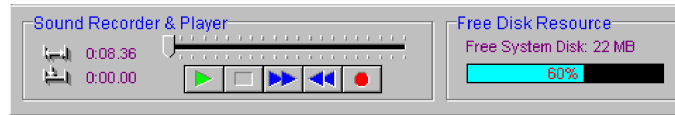
Click on Free Disk Resource and Animated Tape Recorder will resume.

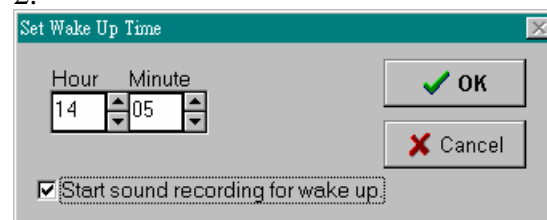## 5-3. Saving Wave Files

To save a wave file:
1. Choose **Save** or **Save as** from Wave File menu.
2. Enter the name of the file and the path.
3. Choose **OK**.

5-4. Preset the Recording

You can preset the recording by using the **Sleep** and **Wake Up** function.

To preset the recording :

1. Click the Wake button , and the **Set Wake Up Time** dialog box appear:
2.

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2. Set the time and choose **Start recording for wake up**.

3. Choose **OK**.

4. Click **Sleep** button ,set the time to turn off the power of the DU-R100 when the recording is completed.

DU-R100 will wake up, start and stop recording according to your procedure.

5-5. Opening a Wave File

To open a wave file:

1. Select **Open** from the Wave File menu.

2. Type or select the wave file you want to open.

3. Choose **OK**.

5-6. Playing Wave Files

DU-R100 can play any kind of wave file.

To play a wave file :

1. **Open** the wave file.

2. Choose **Play**.

You can also drag slider to listen to the recorded wave file again.

To stop playing the wave file, choose Stop.

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# Chapter 6   Converting wave files to MP3

6-1. Selecting the file

 Wave files can be converted to MP3 files quickly and easily. In order to play the wave file you will need to download and install Real Player© or other applications that support MP3. You can download the application at www.real.com and www.winamp.com.

To convert a wave file to an MP3 file:

1.	Go to **WaveFile** and select **Wave to MP3 utility**.

2.	The **Enhanced MP3 functions** panel appears.
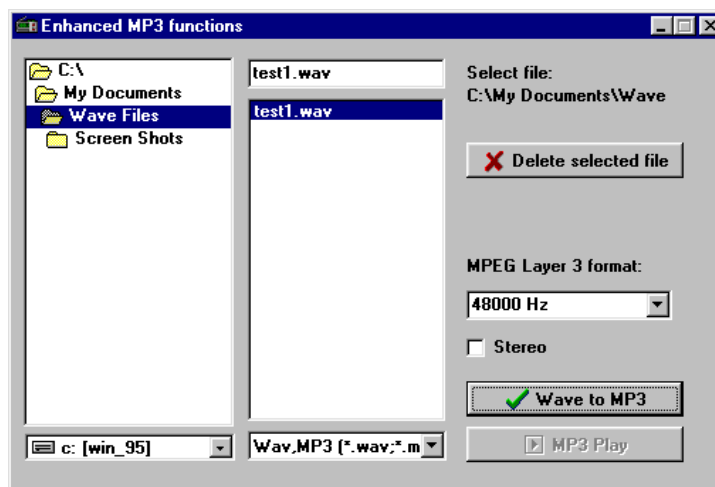
3.   Browse to the directory the wave file is in and select it the on panel to the right.

4.   **MPEB Layer 3 format** gives you several ranges to choose from. Click on the down arrow and choose the sampling rate. 48000 Hz gives the best sound but uses the most memory.

5.   Click on the **Wave to MP3** button to convert the file to **MP3**.

6.   Check the box marked **Stereo** for stereo sound.

7.   The MP3 Compressor panel gives you a status report on the file conversion.

8.   Click Pause to stop the conversion.
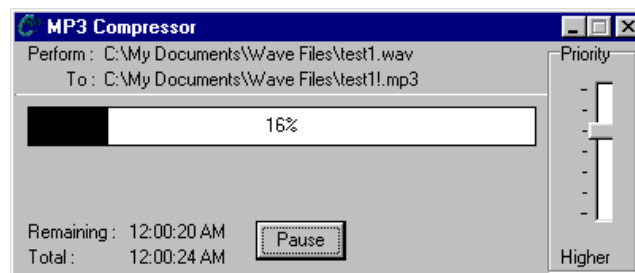
9.   Play the file using Real Player or other application to that supports MP3.

6-2. Deleting MP3 files

Delete MP3 files by selecting the files and clicking on the Delete selected file button on the Enhanced MP3 functions panel.

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