



# COWON D2

Thanks for purchasing COWON.

We always strive for your complete satisfaction of our product.

This manual contains user guide, cautions and other useful information about your COWON player. Please read this manual thoroughly before using, to take full advantage of features in your COWON player.

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### On-line registration and support

- Users are strongly encouraged to complete customer registration at <http://www.COWON.com>. After filling out our customer registration form using the CD-Key and serial numbers, you can receive various benefits offered only to official members.
- 1:1 online support, news updates for new products or special events, and other services are available for our registered customers.
- Each CD-key is unique and will not be re-issued in case of loss.
- Further information regarding the product can be found on the web: <http://www.COWON.com>
- Users will be able to find the latest information for other COWON products and download the latest updates for firmware and software.
- Frequently Asked Questions and Answers can be found on the website.

## COWON D2

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DIGITAL PRIDE

**COWON**

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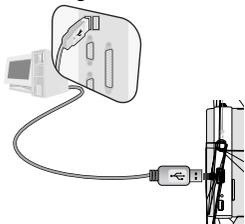
## Before Using D2



## 4. Windows 98 Driver Setup

If you are using Windows 98 or 98 SE, you will need to install a separate driver when the player is connected to the computer. Under windows XP, D2 is automatically recognized.

### ■ Installing Windows 98 Driver



1. Connect D2 with a computer via USB cable



2. "Add New Hardware Wizard" will appear as shown. Click "Next".



3. Click "Search for the best driver for your device (Recommended)", and then click "Next"



4. Click "Specify a location" and click "Browse" button.

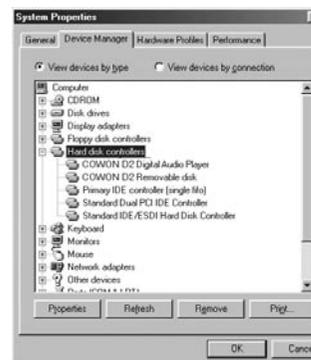
5. Select "Win98" folder in the installation CD and then click "Next" button. Drivers are also available for download from [www.COWON.com](http://www.COWON.com).



6. Once the drivers are recognized, click "Next".



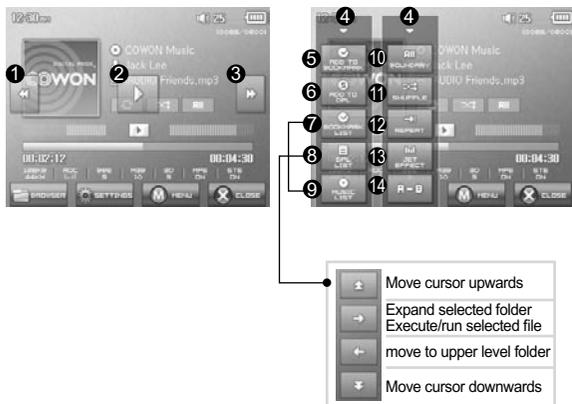
7. Continue to click "Next"



8. Click the "Finish" button to complete the driver installation. The newly added drive can be seen in Device Manager or Explorer.

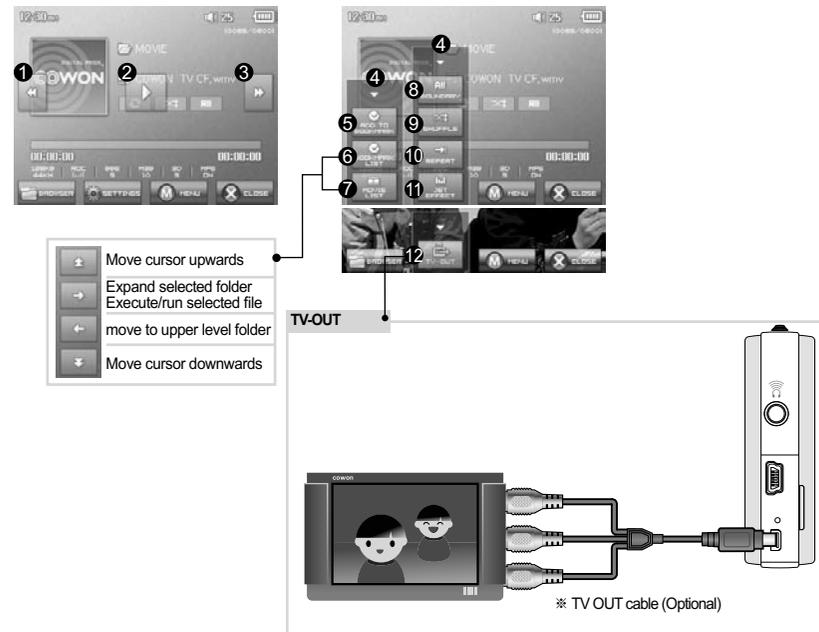


### 3. Music Mode



- ❶ Selects the previous music track or rewinds the current track.
- ❷ Plays a music file or pauses it.  
If a file contains an ID3 tag with an image, it will display the image on the screen.
- ❸ Selects the next music track or fast-forwards the current track.
- ❹ Closes the settings screen
- ❺ Inserts bookmarks during the playback.  
Once a bookmark is inserted at a specific point during a playback of music, it is possible to start playback at that particular point.  
Maximum of 256 files can be added to bookmark.
- ❻ Adds the currently playing music file to a DPL (Dynamic Play List)  
Maximum of 256 files can be added to DPL (Dynamic Play List)
- ❼ Displays Bookmark list  
Used to find and play back bookmarked music files
- ❽ Displays Play List  
Used to find and play music files in the DPL
- ❾ Displays File Browser Mode
- ❿ Sets the boundaries for playback  
All : Plays all music files regardless of folder  
1 : Plays the currently selected music track  
Folder : Plays music files located within the current folder
- ⓫ Sets the random play mode
- ⓬ Sets the repeat play mode
- ⓭ Selects JetEffect settings
- ⓮ Sets the sectional repeat. It can play back in repeat mode a minimum 1 second-length section of a track.

### 4. Video Mode



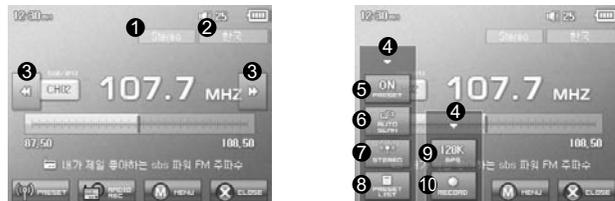
- ❶ Selects the previous video file or rewinds the current video file.
- ❷ Plays a video file or pauses it.  
A video file may not play properly if it has not been converted using jetAudio VX software.
- ❸ Selects the next video file or fast-forwards the current video file.
- ❹ Closes the settings screen
- ❺ Inserts bookmarks during the playback.  
Once a bookmark is inserted at a specific point during a playback of music, it is possible to start playback at that particular point.  
Maximum of 256 files can be added to bookmark.
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Used to find and play back bookmarked video files
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All : Plays all music files regardless of folder  
1 : Plays the currently selected music track  
Folder : Plays music files located within the current folder
- ❾ Sets the random play mode
- ❿ Sets the repeat play mode
- ⓫ Selects JetEffect settings
- ⓬ Turns on the TV OUT (\* This can be used only for playback purpose)  
When TV OUT is selected, volume level is fixed and headphone cannot be used.  
TV OUT can be cancelled by pressing

### 5. Picture and Text Mode



- ❶ Open images and text files by touching the screen  
Images should be placed in PICTURE folder, text files in TEXT folder  
Please refer to the list of supported file types for images and texts.
- ❷ Closes the settings screen
- ❸ Applies the currently selected image as the background on screen
- ❹ Displays the image files in the selected folder in slideshow
- ❺ Moves the cursor up.
- ❻ Opens the currently selected folder or file
- ❼ Moves up in a folder level.
- ❽ Moves the cursor down.

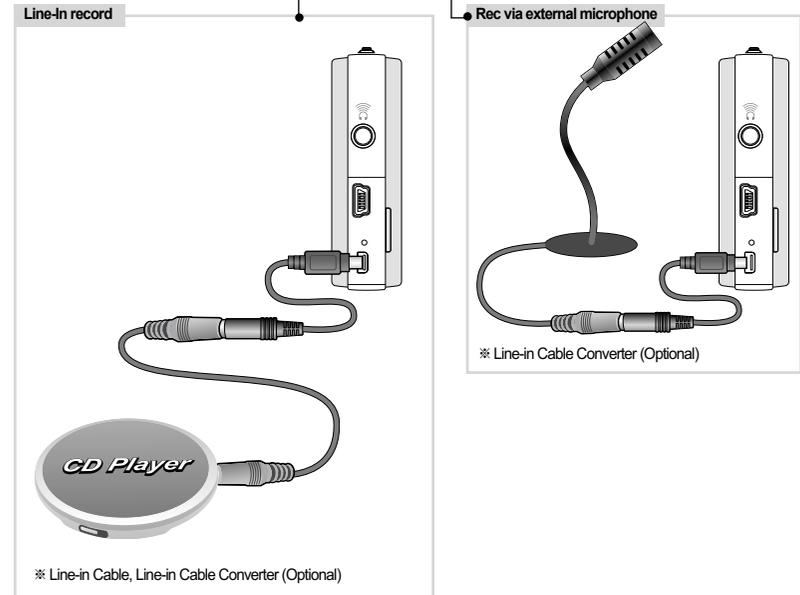
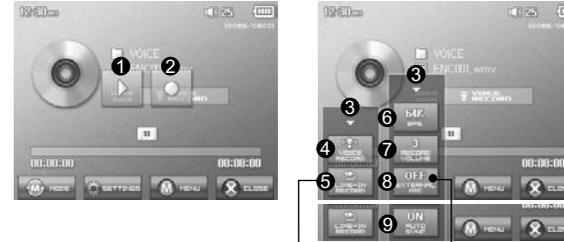
### 6. FM Radio Mode



- ❶ Checks status of stereo or mono signals
- ❷ Displays the country for radio signals, which can be changed under Settings mode.
- ❸ Press it briefly to change the tuning frequency at 0.1MHz intervals. Press it and hold it to searches and jumps to the next tuning frequency with good signals.  
In preset mode, it changes to either previous preset channel or the next preset channel.
- ❹ Closes the settings screen
- ❺ Selects the Preset mode. In this mode, only the preset channels can be accessed.
- ❻ Automatically searches the FM frequencies with good signals and enters them into the preset channels
- ❼ Sets stereo or mono setting
- ❽ Displays the preset search mode. You can add the currently tuned frequency to the preset channel or delete a preset channel.
- ❹ Sets the quality of the recording radio signals. Higher bps provides better sound quality but requires larger file size.
- ❿ Records the currently selected channel

- D2 does not have a dedicated antenna. Instead the headphone wire is used to enhance radio signal strengths like an antenna. Stretching out the headphone wire will improve signal reception quality. During Radio recording, be sure to use the headphone to optimize sound quality.

### 7. Record Mode



- ❶ Plays back recorded files
- ❷ Starts recording
- ❸ Closes the setting screen
- ❹ Records voice
- ❺ Records through a Line-In connection
- ❻ Selects the sound quality of the recording. Higher bps provides better sound quality but requires larger file size.
- ❼ Sets the volume level during recording.
- ❽ Sets use of external microphone. Only stereo pin microphone should be used. (This setting can be selected on in Voice Record mode)
- ❹ Sets the duration for silent intervals before it creates a new file for recording. It automatically detects the silent intervals in incoming sound and creates a new file when the silent interval exceeds the specified duration. (\*This setting can be selected only in Line-In Record mode)

## 8. Settings Mode

### 1. JetEffect

1. Equalizer
  - settings or manually set 5 Band Equalizers(EQ).
  - Preset EQ settings include Normal, Rock, Jazz, Classic, Pop, and Vocal. Each preset EQ can be edited to match user's preference.
2. BBE
  - BBE is the sound effect that provides clear music.
3. Mach3Bass
  - Mach3Bass is the base booster that enhances super low-end bass.
4. 3D Surround
  - 3D Surround provides three dimensional sound effects.
5. Stereo Enhance
  - Stereo Enhance enhances stereo effect for fuller sound quality
6. MP Enhance
  - MP Enhance: Sound effect that compensate for missing sound segments
7. Pan
  - Pan adjusts the left and right volume balance.
8. Play Speed
  - Controls the speed of music playback.

- Excessive JetEffect settings may strain sound and generate noise.  
 - For further information regarding JetEffect, refer to BBE MP at our website: [www.COWON.com](http://www.COWON.com)

### 2. Play Mode

1. Boundary
  - This function sets the various ranges of files and folders.
  - All: Plays all tracks in all folders
  - Single: Plays only one track.
  - Folder: Plays files in the current folder
2. Repeat
  - Within the range specified in the boundary, repeat playback can be set.
3. Shuffle
  - Within the range specified in Boundary, random playback can be set.
  - If enabled, files within the range are randomly played.

## 3. Display

1. Language
  - Sets the language in COWON D2
2. Title
  - Sets how the player displays file names on the screen.
  - Choose ID3 tag to display tag information (artist, title) while playback.
3. Play time
  - Sets how it displays time information of current file.
  - Play time shows elapsed playback time and Remaining shows the remaining playback time.
4. Scrollspeed
  - Sets the scrolling speed for text displayed on the screen.
  - Larger the number, faster the scrolling speed.
5. Wallpaper
  - Sets the wallpaper for Music mode.
  - If None is selected, wallpaper is not displayed.
  - If Defaults is selected, default wallpaper will be displayed.
  - If Custom is selected, the image set as Wallpaper in Picture mode will appear as the wallpaper.
6. Lyrics
  - COWON D2 can display lyrics of music files that contain lyric information.
  - When enabled, lyrics of the music file being played is displayed on the screen.
  - Music files without lyrics will not display lyrics even if this feature enabled.
  - For more information regarding using lyrics, please refer the COWON's homepage ([www.COWON.com](http://www.COWON.com)) under FAQ-How to use LDB Manager.
7. LCD Auto off
  - Sets how long the screen stays on before it turns off.
  - If there is no operation for a specified period of time, the screen will automatically turn off.
8. Brightness
  - Sets the screen brightness.
9. Set Font Color
  - Sets the default font color for display
10. TV-Out Methods
  - Sets the signal out to TV
11. 7.5 IRE
  - Sets the brightness of the signals to TV
  - The 7.5 IRE is a U.S. analog signal brightness standard and is used in US, Korea, and other countries. (Most countries use 0 IRE)
  - Sets this if the TV is made for use in Korea or in U.S.

#### 4. Timer

1. Time Setup
  - Sets the current time.
  - Sets the correct time setting for alarm and scheduled recording.
2. Wakeup mode
  - Automatically turns on the player at the specified wakeup time.
  - Music Alarm plays music and for FM Alarm settings, the last station to be listened to will run in Radio mode.
  - For FM recording, it records the last radio frequency from the preset time during the specified time.

NOTE: FM Scheduled Recording uses more power than other features. Always make sure that the player is fully charged before using this feature.
3. Wakeup Time
  - Sets the time to automatically turn the player on.
  - Once sets the alarm for one time use, Daily sets the alarm for daily use.
  - Duration is the period of time during which the alarm will stay on.
4. Sleep
  - Automatically turns off the power after a specified time.
  - After the preset time has passed, the player will automatically turn off even if a file is being played at the time.
5. Auto Off
  - When the player is stopped and no action is taken after a specified time has elapsed, this feature will automatically turn off the player.
  - This function does not operate during playback.

#### 5. General

1. Skip length
  - Sets the length of playback time skipped when the   buttons are pressed shortly.
2. Scan speed
  - Sets the speed of Fast Forward/Rewind when the   buttons are pressed and held.
  - The faster the speed, the quicker scanning is possible.
3. Resume
  - Saves the location of the music file played at the last power off.
  - If enabled, when the player is turned on, it automatically plays from the last position where it was turned off.
4. Fade in
  - Gradually increases volume when resuming playback after stop or pause.
  - Sets how long it takes to increase the volume.
5. Load Default
  - Sets all the settings to default values except for the language
6. User defined button
  - User can define a desired function for Pressing and holding  button

#### 6. Recording

1. LineIn bps
  - Sets the audio quality of the file being recorded through Line-In.
  - The higher Kbps, the better the recording quality is, but file size also becomes larger.
2. Voice bps
  - Sets the audio quality of the file recorded with the built-in microphone.
  - Files recording through the microphone are set to Mono by default.
  - The higher Kbps, the better the recording quality is, but file size also becomes larger.
3. FM bps
  - Sets the quality of the file being recorded during FM Radio listening.
  - Also sets the quality of scheduled FM recording file.
  - The higher Kbps, the better the recording quality is, but file size also becomes larger.
4. Mic volume
  - Adjusts the volume level of audio recorded through the built-in microphone.
5. Line volume
  - Adjusts the volume level of audio recorded through the Line-In.
6. Auto Sync
  - Recognizes input sound through the Line-In and generates a new file automatically.
  - If there is no sound input during a specified time period, a new file is created when recording is resumed.
7. External MIC
  - Sets whether an external microphone is being used.
  - External microphone does not need separate power. Line-in Cable Converter (sold separately) can be used

#### 7. FM Radio

1. Stereo
  - Select from Stereo and Mono when listening to FM Radio.
  - Radio broadcasts that only support Mono will not support the Stereo feature.
2. Auto scan
  - Automatically scans for FM frequency channels and sets to preset channels.
3. Region
  - Selects the country in which you are listening to FM radio.

#### 8. Information

- Version : version of the firmware installed
- Total Space : Total capacity of the flash memory
- Free Space : Un-used amount of flash memory

## 1. Specification

COWON D2 – Specification		
Supported File Types	Music	MP3 : MPEG 1/2/2.5 Layer 3, ~320kbps, ~48kHz, mono/stereo WMA : ~256kbps, ~48kHz, mono/stereo OGG : ~Q10, ~44.1kHz, mono/stereo FLAC : Compression Level 0 ~ 8, ~44.1kHz, mono/stereo WAV : ~48kHz, 16bit, mono/stereo JetEffects(BBE, Mach3Bass, 3D Surround, Stereo Enhance, MP Enhance)
	Video	AVI : MPEG4 ~ 2Mbps, 320x240, 30fps, MP3 audio WMV : WMV9 ~ 768kbps, 320x240, 30fps, WMA audio TV OUT (TV OUT cable sold separately)
	Record	WMA : 32 ~ 256kbps recording and playback Voice, Line-In, External Mic
	Picture	JPG No limit on file size
	Text	TXT file Viewer Supports Max. 2MB
	Max. numbers	500 folders / 5,000 files
	Radio	FM RADIO : 76Mhz ~ 108Mhz, 87.5Mhz ~ 108Mhz WMA : 32~256kbps Recording
Display	2.5 inches 1.6M color TFT-LCD – QVGA (320x240) Touchscreen	
Internal Memory	2GB, 4GB	
External Memory	1 Memory Slot for SD/SDHC Card or MMC Card	
PC Interface	USB 2.0 High Speed	
File Transfer Speed	Max. 35Mbps (Upload Max. 40Mbps)	
Battery	Internal Lithium Polymer battery	
Battery Life	Movie : Max. 10 hours of continuous play Audio : Max. 52 hours of continuous play	
Charging Time	Power adapter: ~3.5 hrs, USB: ~7 hrs	
Buttons	3 buttons (MENU, VOL-, VOL+), POWER & HOLD Switch	
SNR	95dB (A-Weighted)	
Tunable Frequencies	20Hz~20KHz	
Sound Output	16 Ohm Earphone : 37mW + 37mW	
Dimensions	78 X 55.4 X 16.6 mm (LxHxD)	
Weight	91g (Including the battery)	

- The battery life is as tested under COWON's standard testing settings and can vary for individual uses.

## 2. Setting to Factory Default Values

COWON D2 can be returned to its original factory settings. Resetting will erase all the currently set values for settings and will return them to the values pre-set at the factory.

1. Turn on the power
2. At the Mode Selection screen, follow the steps shown below.



3. Next time a power is turned on, the language selection screen will appear.

### 3. Converting Video Files Using JetAudio VX

1. Install and then run JetAudio VX.



2. Click "Convert Video" on the top to convert the video file.



3. From the Convert Video window, click "Add File" to select the files to convert.



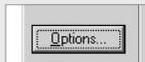
4. Check the selected video files in the list.



5. After checking the target folder location to save the converted files and other settings, click on "Start" to start the video conversion process.



- Movie files that have not been converted by jetAudio VX will not play in COWON D2.
- Make sure that the movie files play properly on the PC.
- Not all video files can be converted. Files already damaged before conversion may not work on COWON D2 even if the conversion process is successful.
- Conversion time may vary depending on PC performance, source file size and codec types.
- "Preview" allows checking the converted video before starting conversion.
- To convert a file with subtitles or to change settings on subtitles, click on "Convert Options".



- SMI files for subtitles must have the same file name as its video file.

#### I am still confused even after reading the manual.

Our website [www.COWON.com](http://www.COWON.com) provides support for users of COWON products with FAQ (Frequently Asked Questions) and beginner's guide for our products. Users are strongly encouraged to check out our website for further information regarding product usages and software upgrades and patches. For individual inquiries, please contact us on-line as we will try to help you as best we can.

#### I cannot turn on the player.

Charge the battery fully in case the battery charge has been drained. If the battery is weak it may take a few seconds to power on. If the player does not respond at all, first disconnect all USB and power cables, and then press the RESET button located at the bottom of the player. RESET button simply powers off the player and does not affect the player in any other way.

#### Buttons do not respond.

Check if the power switch is set to HOLD

#### The player is on but there is no sound.

Check if the volume is set to 0

Check if the player has any music file stored in its disk. Damaged music files may not play or play improperly. Check the connection of the earphones to the D2. Loose or blocked connection can cause inadequate contact between earphone jack and the D2.

#### The battery life is shorter when I use external memory

D2 requires more power to read and play back/record files from an external memory card, So, battery life will be shorter when using external memory compared to using the internal memory.

#### Album image is not displayed in Music Mode

In order display album image, the image has to be stored in the ID3 tag of the music file. You can edit the ID3 tags using jetAudio.

#### Video won't play.

All video files must be converted using jetAudio VX. Any other video files are not supported by D2.

#### FM Radio does not work.

D2 does not have a separate antenna. Instead it uses earphone wire to receive FM Radio signals. Stretching the wires may enhance the reception quality. FM radio reception may be poor at locations where FM radio transmissions are shielded. If FM radio does not work where reception should be possible, please contact our service center (Note that reception quality of D2 may differ from other FM radio receivers.)

#### DMB does not work

This model does not include DMB module. Built-in DMB module is available in COWON D2 DMB model.

#### There is too much noise in my recordings.

COWON D2 uses ultra-small embedded microphone, so it may be more susceptible to noise during recordings.

### Characters on the display are corrupted.

Reset the language using Settings-Display-Language menu and set display format to File name using Settings-Display-Title menu. If the problem continues, reset the player following the procedures outlined in the manual. Some special fonts may not display perfectly.

### Computer cannot recognize the player when connected.

If D2 doesn't power on when connected PC, press RESET button next to the USB jack on the bottom of the player.

D2 may require additional driver installation for Windows 98 users.

Connection to an external USB Hub may not be stable due to its low power. D2 should be connected directly to a PC's USB port.

### Player is not recognized by JetShell and "No iAUDIO found" message appears.

Check to see if the player is recognized in Windows Explorer when it is properly connected to PC. D2 must be recognized in the Windows for it to work with JetShell.

Additional driver installation is required for Windows 98 and 98 SE users.

Within JetShell, set Settings-Device to match your model.

### Memory capacity of the player is different or smaller than specified.

The memory capacity indicated by Windows Explorer may be different from that indicated by the memory manufacturer.

D2 uses some area in the drive for system operation. Therefore, the actual available capacity is somewhat reduced after excluding system area.

### COWON D2 does not play properly when memory is full.

For D2 to function properly, it requires at least 5 MB of space for saving settings and other system files.

## What is JetShell?

**JetShell is the COWON D2 manager program providing the following features:**

- Downloading/Uploading files from/to COWON D2.
- File management similar to Windows Explorer
- Playing MP3, MP2, WAV, WMA, ASF, Audio CD, and Playlist (m3u)
- Copying (ripping) MP3 files from Audio CD
- Converting between WAV/MP3/WMA
- Changing bitrate of MP3 files
- Convenient file transfer using Download List
- A wide selection of spectrums, equalizers, and sound effects
- Editing ID3 tags
- Downloading COWON D2 logo
- Formatting the flash memory

### Running Environment for JetShell

- Pentium 200 Mhz or higher
- 32 MB or more memory
- 20 MB or more hard disk space
- 256 Color or higher display
- Windows 98/ME/2000/XP (NT is not supported)
- USB Port 1.1 or higher
- CD-ROM drive
- Sound Card, Speaker or Headphone

## Connecting COWON D2 and Installing JetShell

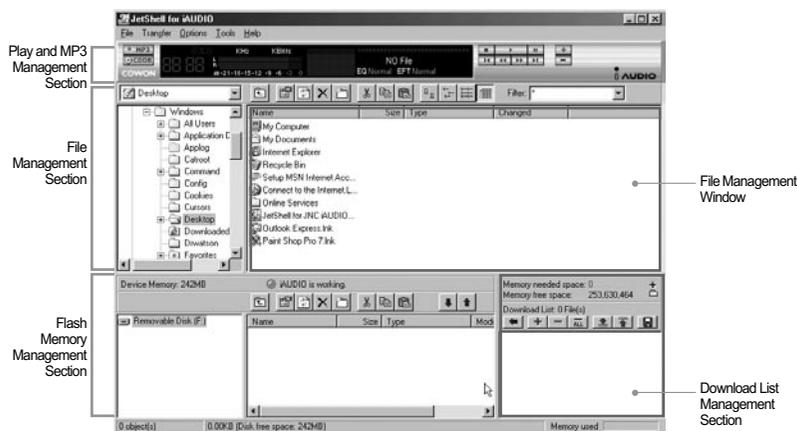
1. When you insert COWON D2 installation CD in the CD-ROM drive, the installation program starts automatically. It may not start automatically depending on the settings of Windows. In this case, run x:\setup.exe or x:\JetShell\setup.exe. (where x is the letter of your CD-ROM drive)
2. When the installation finishes, Start -> Program -> COWON -> program group is created.
3. You are now ready to connect COWON D2 to PC (Don't run JetShell at this time). Connect the USB ports of COWON D2 to your PC using the provided USB cable. **(We recommend to connect COWON D2 to the PC directly, not using USB hub)**
4. As soon as the cable is connected, the message "Found New Hardware" appears and the USB driver for COWON D2 is installed automatically. The driver installation message may not appear on the screen depending on the status of Windows. To make sure that the installation was completed normally, check for the device "iAUDIO" in My Computer as shown below, or "Control Panel -> System -> Hardware -> Device Manager".



5. Now you can transfer files by using JetShell or Window Explorer.

## Introducing JetShell

### The Whole View



When JetShell is running, it controls the iAUDIO. Make sure to exit JetShell before performing the following tasks:

- Installing COWON D2's USB driver
- Formatting COWON D2 in Windows Explorer
- Upgrading COWON D2's firmware

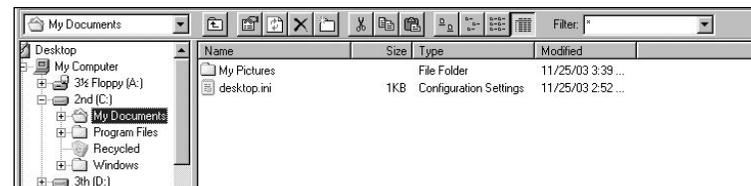
### Player Section



Double click an MP3, MP2, WAV, WMA, ASF, Audio CD track, or Playlist (m3u) file in the "File Management Window", or drag and drop files on the "Player Window" shown above. You can also select multiple files and then press the Play button. On the black screen in the middle, various information of current file is displayed, and two types of spectrum screens appear.

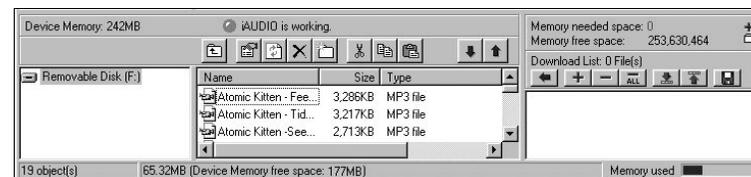
You can start and stop playing the file with the buttons at the right, and adjust the volume with the + and - buttons. To skip instantly to a specific position of the track being played, click on the position bar.

### File Management Section



The File Management Section of JetShell looks just like Windows Explorer. The left window shows folders, disks, and CD-ROM drives in a tree structure, and the right window shows the files in current folder.

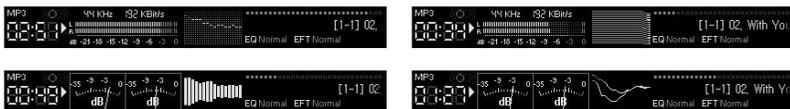
### Flash Memory Management Section



The bottom part of JetShell consists of "Flash Memory Management Window" and "Download List Window". When COWON D2 is working normally, the red lamp is turned on with the message "COWON D2 is working" as shown in the figure. The files in COWON D2 displayed in the middle window. The "Memory used" bar shown at the bottom right indicates the used memory size of the total flash memory of COWON D2. If this bar is almost full, it means that there is almost no free space available in COWON D2.

Button	Function	Explanation
	Up	Move to the upper folder.
	Properties	Display the properties of the selected file.
	Refresh	Refresh the contents of flash memory.
	Delete	Delete the selected file or folder.
	New folder	Create a new folder.
	Cut	Cut the selected file or folder.
	Copy	Copy the selected file or folder.
	Paste	Paste the cut or copied file.
	Transfer to Flash Memory	Transfer the selected files or folder from PC to COWON D2.
	Transfer to PC	Transfer the selected files or folder from COWON D2 to PC.

JetShell displays visually cool spectrums. When you click on the spectrum display area, the screen changes as follows.



You can also enjoy various equalizers and sound effects.



Various Equalizers

Various Sound Effects

## Downloading Music files to COWON D2

If you want to download secure WMA files (WMA files from online music store) to COWON D2, please refer to "Downloading secure WMA files to COWON D2". JetShell does not support downloading secure WMA files. You can use Windows Explorer or other file management programs to download music files to COWON D2.

1. Downloading music files to COWON D2 is very simple. Select files to download from the "File Management Window" and click down arrow.



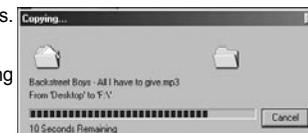
2. Or you can also drag and drop the selected files from the "File Management Window" to the "Flash Memory Management Window".



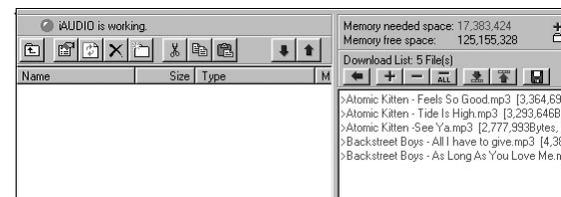
3. The following window shows the file downloading process.

Never disconnect the USB cable while downloading.

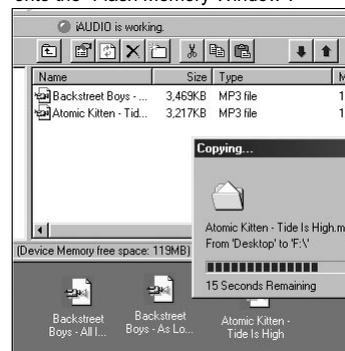
Make sure that the LCD status is READY before disconnecting USB cable.



4. Another method is to put the files in the "Download List Window" first, and transfer them later.



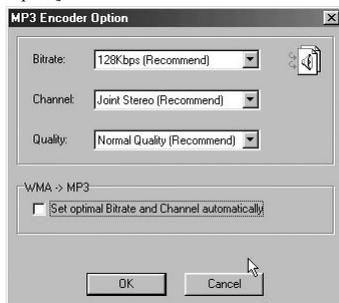
5. You can also download the files existing outside of JetShell by dragging and dropping them onto the "Flash Memory Window".



## Converting Audio CD Tracks to MP3 Files and Downloading Them to COWON D2

With JetShell, you can easily convert your Audio CD into MP3 files and download them to COWON D2.

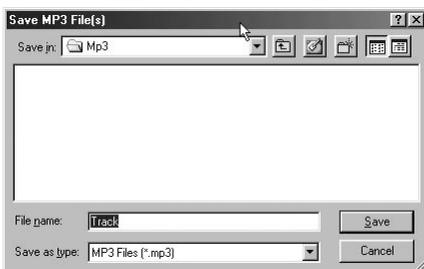
1. Before getting started, you must choose the quality of the MP3 files to create. Click [Setup] – [MP3 Encoder Option] to set the desired bitrate of the MP3 files. (The files compressed in a high bitrate have a higher sound



2. From the File Management section, select the CD-ROM drive in which the Audio CD is inserted. Select the audio tracks from the right window and click **MP3** or [File] – [Convert CD to MP3] from the menu.



3. Specify the path to save the MP3 files in. Choose a folder in COWON D2 to directly download MP3 files onto COWON D2.



## Other Features

### 1. Editing ID3 Tag

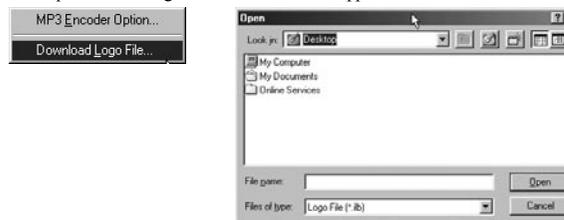
You can edit the ID3 tag of a MP3 file by selecting [Tools] – [Edit MP3 ID3 Tag] from the JetShell menu.



### 2. Downloading Logo File

You can download a logo file to change the logo screen that appears when COWON D2 powers on.

Select [Download Logo File] from the menu. When the "Open" window appears, select the desired logo file and click Open. Then the logo file is downloaded and applied.



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