8100 Series



MP3 Player Recorder Owner's Manual

8100 MP3 Player/Recorder 8101 MP3 Player/Recorder with headphone 8104 Portable Learning Center MP3 Player/Recorder with 4 headphones, jackbox and carry case



8100 MP3 Player/Recorder Owner's Manual

Thank you for choosing the Califone[®] (8100) MP3 Player/Recorder. The 8100 was designed to provide educators and students with a compact and portable solution for playing audio files (MP3, WMV & WAV formats), listening to recorded books, lessons and music. It can also record podcasts and track vocal responses, which is useful for applications such as language learning. Built to promote safe listening practices and limit noise-induced hearing loss, the 8100 features Sentinel Technology[™] which maximizes the output volume level to a safe 85dB (recommended by the American Speech & Hearing Association).

I encourage you to visit our website and register your 8100 for its warranty coverage, and while there please learn more about the complete line of Califone audio visual products including: Portable and installed wireless PA systems, multi-media players & recorders, headphones and headsets, language learning, computer peripheral equipment and visual presentation products.

Sincerely,

Roscoe Anthony

Roscoe Anthony President, Califone[®] International, Inc

Introduction

The 8100 offers an easy-to-use menu interface which is packed with features and simple to navigate. Its 512MB of internal flash memory can store up to 36 hours of music, audio books or vocal recordings. With its built-in MMC/SD-card slot it can accommodate up to 2GB of added memory, for up to 500 additional songs or 72 hours of additional material. Up to 18 hours of audio can be recorded and stored on the internal flash memory using the built-in mic.

Using the included USB cable, simply connect the 8100 with your Windows or Macintosh computer. Once connected, just drag and drop the specified tracks into the 8100 and you're ready to play, listen and learn.

Although the 8100 is simple to operate, please read through this guide to familiarize yourself with its features and design, and get the most out of your new MP3 Player/Recorder.

Note: The number of audio files / playback time depends on file format and bit rate. Common bit rates for audio files range from 32 – 192kbps. Lower bit rates (32-64kbps) are typically used for spoken word and audio books. Here are typical bit rates and the amount of material that can be stored on the internal flash memory using these bit rates:

32kbps ... 36 hours of material 128kbps ... 9 hours of material 192kbps ... 6 hours of material

Note: The 8101 and 8104 models come equipped exclusively with fully adjustable Califone[®] 8100-HP headphones. These stereo units feature protective on-ear ambient noise-reducing earcups to help block out external sounds, which reduces the need to increase the volume and also helps to keep students on task. The headphones are made with rugged ABS plastic for durability. If model 8100 has been purchased, visit califone.com to learn more about the full line of high fidelity stereo headphones which are recommended for use with the Califone MP3 Player/Recorder.

Warranty Coverage

The warranty for the Califone MP3 Player/Recorder specifically covers use in schools, churches and early childhood daycare centers, unlike consumer electronic products. It is built to the same standards as the rest of our products which teachers and other presenters rely on day in and day out. Califone warrants this product to be free from defective material and workmanship for one year from the purchase date. Our "Project Intercept Customer Satisfaction program will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use, provided the unit is returned to our factory via prepaid transportation only after the factory issues an RA (Return Authorization) number which must be clearly written on the outside of the box.

Returning your unit for service or repairs

Should your unit require service, first contact your dealer or our Customer Service Department at (800) 722-0500 or by email warranty@califone.com to obtain a Return Authorization (RA) number. All shipments to Califone must include an RA number on the carton and must shipped prepaid. C.O.D. shipments will be refused and returned at your cost.

Unpacking your MP3 Player/Recorder

Check unit carefully for damage that may have occurred during transit. Each 8100 is carefully inspected at Califone prior to shipping and packed in a special carton for safe transport.

All Damage Claims Must be made with the Freight Carrier

Notify the freight carrier immediately if you observe any damage the shipping carton or product. Repack the unit in the carton and await inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

Contents

8100 Contents

Player only, does not come with a headphone

- 8100 MP3 Player/Recorder
- USB Cable
- User manual

8101 Contents

- 8100 MP3 Player/Recorder
- One 8100-HP stereo headphone
- USB Cable
- User manual

8104 Contents

- 8100 MP3 Player/Recorder
- 4 sets 8100-HP stereo headphones
- 3.5mm patch cable
- 1114AV-PS stereo jackbox
- USB Cable
- User manual
- Carrying case

8100 Features

- Integrated microphone to record voice files (WAV) and for recording podcasts
- Dual 3.5mm headphone jacks for two listeners or more with an attached jackbox
- Sentinel Technology™ restricts volume to maximum level of 85dB to protect hearing levels
- Capable of playing Windows Media PlaysForSure[®] audio file types including MP3, WMA and WAV format files
- Auto-repeat looping function
- Easy to operate user interface
- Backlit display
- Integrated SD/MMC memory card slot
- Built-in rechargeable lithium-polymer battery
- (16 hour run time on a single charge)
- Built-in four-position EQ
- Automatic charging when connected to a computer with its USB cable (or DC power supply)
- Califone 8100-HP headphones (8101 and 8104 packages only)

16. Hold switch

Sliding this switch to the OM (down) position will disable all button functionality, if a button is pressed while the Hold switch is engaged a HOLD message (depicted by a Lock icon), will appear momentarity in the display, and no action will be taken. If the Hold switch is engaged while attempting to power on the unit, the Califone logo will message, and the unit will power off.

15. A-B Loop button

The AB Loop button is used to play a selected section of a track repeatedly. Pressing the AB Loop button once will mark the start point of the section. An A* will appear in the display. Pressing the AB Loop button a second time will mark the end of the selection. "AB will appear in the display, and the selected section will begin looping. To cancel loop playback, press the CK button (5).

NOTE: If you have selected a start point for a loop but have not selected an end point before the end of the current track, the loop function will reset and the "A-" will no longer be displayed.

14. Record button

Pressing the record button immediately places the 8100 lino record mode, using the built-in microphone (2). Pressing the Record button again during recording pauses the recording until the Record button is pressed again. To complete a recording, press the OK button (5).

13. Volume Up

Pressing this buttor raises the playback volume level up to a maximum sale listening level of 85dB with the Sentine Technology[™] feature enagaed. (The 8100 arrives from the factory with Sentinel Technology[™] feature 'enable', but can be disabled for specific situations from the 'Setting' Menu Max Volume Limit.) The Volume Up button is active during playback even if the playback screen is not displayed.

12. Previous Track

Pressing this button during playback selects the previous track in the current track list, and begins playing that track from the beginning. If the currently selected track is the first, the last track is selected.

11. DC In jack

Connect an external power supply to this jack (not supplied).

10. Play/Pause

Pressing the Play/Pause button begins playback of the currently selected track. Pressing the Play/Pause button during playback pauses playback until the Play/Pause button is pressed again.

Controls and Connectors



The 8100 will only accept a SVDC power supply providing up to 700mA of current. Connecting a power supply of larger than SVDC or 700mA will damage your unit and void your warranty.

1. Headphone outputs

Connect one or two 3.5mm headphone connectors to one or both of these outputs. Volume level to both outputs is controlled by the Volume Up (13) and Volume Down (9) buttons.

2. Microphone

Use this built-in microphone to record student podcasts, vocal responses or other audio sources. This feature can be useful for tracking language learning and student assessments.

3. Display

The LCD soften displays the menu functions and operational messages. During playback, the screen displays the current track status, including track number, total tracks, track time, current position and playback status, as well as volume level, battery charge status and the current playback source (internal memory or external memory card).

4. Menu button

Pressing the Menu button displays the Main Menu. For specific information on Menu functions please refer to the Menu Screen section of this user guide.

5. OK button

In playback mode, pressing the OK button will stop playback. In Menu mode, the OK button is used to confirm a Menu selection.

6. Next Track

Pressing this button during playback selects the next track in the current track list, and begins playing that track from the beginning. If the currently selected track is the last, the first track is selected.

7. USB Connector

Connect the included USB cable to the mini-USB port on the unit, connecting the other end to your host computer. In addition to transferring tracks to and from your computer, the 8100's internal battery will charge via the USB connection (fully recharged in 5 hours).

8. SD/MMC Card Slot

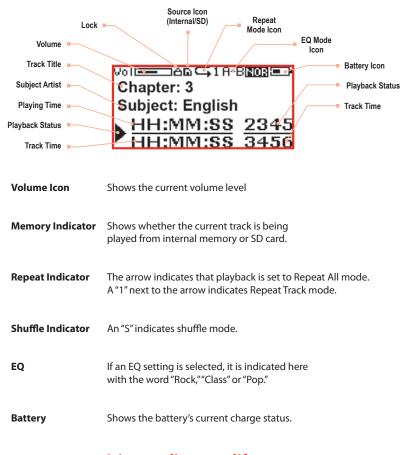
This slot will accommodate an SD or MMC memory card of up to 2GB. Cards larger than 2GB are not supported.

9. Volume Down

Pressing this button lowers the playback volume level. This button is active during playback even if the playback screen is not displayed.

8100 Main Screen

At the top of the Main Screen you will note several icons which indicate current settings on the 8100.



8100 Main Screens continued

Play Music

[Play Music]
Play ALL
Artist
Album 🖕

This menu accesses lesson or music tracks on the unit. The sub-menus allow selection of tracks using standard AMG meta-data tags.

Play All

Plays the entire selection of tracks loaded into the unit

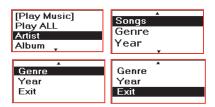
Album - Lists tracks by lesson or album title

Genre - Lists tracks by genre

Exit - Exit to main menu

Play Voice

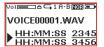
List To All Voice Files Accesses a list of voice files recorded with the internal microphone.



Artist - Lists tracks by author or artist

Songs - Lists tracks by chapter or song title

Year - Lists tracks by year



Settings

Equalizer



This submenu selects from four pre-programmed equalization settings. Choose the equalization setting that works best for your application, music and personal preferences.

Normal - No EQ, not necessary for voice applications

Classic – Suitable for full range classical and acoustic music Pop – Suitable for pop and dance music

[Equalizer]	[Equalizer]
Normal	Normal
Rock Classic	Rock Classic
Pop	Pop
[Equalizer]	[Equalizer]
[Equalizer] Normal	Normal
<u></u>	

Rock - Suitable for rock and heavier music

Settings continued

Play Mode

[Settings]	ĉ
Equalizer	Π
Play Mode	11
Record Memory	1
Max. Vol. Limit	Â

Selects from different playback modes:

Normal - Plays back each track in succession

Record Memory

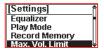
[Settings]	Î
Equalizer	1
Play Mode	
Record Memory	
Max. Vol. Limit	Ē

Selects the destination for tracks recorded with the built-in microphone:

Internal - Records to the built-in memory of the 8100

SD Card – Records to an SD/MMC card in the memory card slot of the 8100 (8)

Max Volume Control



Max. Vol. Limit Max. Vol. Limit Enable (85dB) Disable Disable

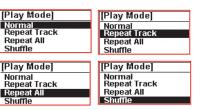
Each 8100 arrives from the factory with the Sentinel Technolgy[™] feature enabled, maximizing the playback volume level to 85dB.

Enable - Maximizes the playback volume level to 85dB



Disable - Disables maximum volume level limiter

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Repeat Track – Continually repeats the current track

Record Memory

Internal

SD Card

Shuffle - Plays back tracks from the play list in random orde

Record Memory

Internal

SD Card

Repeat All – Plays the full play list in succession, then repeats from the beginning

Settings continued

Resume Playback



Playtime Setting

[Settings] Resume Playback Playtime Setting Power Saving LCD Contrast

Selects playback options on powering on.

Enable – When powered on, playback will resume from the previous track and position

Selects the amount of time after which the unit will automatically power off when in use.

30Mins – Unit powers off after 30 minutes

60Mins - Unit powers off after 60 minutes



Disable - When powered on, playback will start at the beginning of the first track on the current play list

Playtime Setting	Playtime Setting	
30 Mins 60 Mins	30 Mins 60 Mins	
90 Mins Disable	90 Mins Disable	
Playtime Setting	Playtime Setting 30 Mins	
30 Mins 60 Mins	60 Mins 90 Mins	
90 Mins Disable	Disable	

90Mins - Unit powers off after 90 minutes

Disabled - Unit will not power off automatically

Power Saving



Selects the amount of time after which the unit will automatically power off when idle.

1Mins – Unit powers off after 1 minute

3Mins - Unit powers off after 3 minutes



5Mins - Unit powers off after 5 minutes

Disable - Unit will power off after 30 minutes

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Settings continued

LCD Contrast



Controls the contrast of the LCD display. Selecting this function displays a variable scale indicator, controlled via the Previous Track (12) and Next Track (6) buttons.

LCD Contrast		
1		
4	LEVEL	•

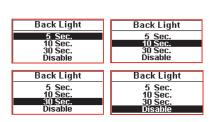
Back Light



Selects the amount of time before the backlight on the display turns itself off to conserve power.

5Sec - Backlight turns off after 5 seconds

10Sec - Backlight turns off after 10 seconds



30Sec - Backlight turns off after 30 seconds

Disable - Backlight is disabled (does not turn on)

Delete File



Settings



Playing back lessons or music

To play back music on your 8100, first power the unit on by pressing and holding the Play/Pause button (10). After initializing and scanning for available tracks, the Main screen will appear.

To play all tracks:

- · Press the Play/Pause button (10) once, or
- Press the Menu button (4)
- Scroll to Select All
- · Press OK (5)

To view tracks by meta tags:

- Press the Menu button (4)
- · Scroll to the desired meta tag
- (Artist, Album, Songs, Genre, Year)
- Press OK (5)

To play a single track repeatedly:

- Press the Menu button (4)
- Scroll to Settings and press OK (5)
- Scroll to Repeat Track and press OK (5)

To play all tracks repeatedly:

- Press the Menu button (4)
- Scroll to Settings and press OK (5)
- Scroll to Repeat All and press OK (5)

To play all tracks in random order:

- Press the Menu button (5)
- Scroll to Settings and press OK (5)
- Scroll to Repeat All and press OK (5)

Playing back voice tracks

- Press the Menu button (4)
- Scroll to Play Voice and press OK (5)
- Select a voice file and press OK (5)

Recording Podcasts & voice tracks

- Press the Record Button (14)
- To pause during recording, press the Record button (14). Pressing the Record button again resumes recording
- To stop recording, press OK (5)

Using the 8100 continued

Importing lessons or music from a computer

Connect the 8100 to your computer's USB port using the included USB cable. The 8100 will appear as an external drive on your computer, allowing you to drag and drop files between the 8100 and your computer.

Delete File

Music File

Voice File

VOICE0001.WAV

VOICE0002.WAV

VOICE0003.WAV

Voicel

[Songs] Song1.MP3

Song2.MP3

ABCDEF.WMA Delete Confirm

NO

YES

Deleting files

[Settings]	î
Back Light	
Delete File	
Exit	U
	₽

- Press the Menu button (4)
- Scroll to Settings and press OK (5)
- Scroll to Delete File and press OK (5)
- Scroll to Music File or Voice File and press OK (5)
- Select a file to delete and press OK (5)

To power the 8100 off

Hold down the Play/Pause button until the unit powers off.

Troubleshooting

Although your 8100 is manufactured to the highest standards, occasionally things might not work as expected. If you experience any difficulties, please have a look at these suggestions first:

Unit doesn't power on

Hold the Play/Pause button for 1-2 seconds. If the unit still does not power on, the battery may be discharged. Connect the USB cable to your computer or connect a recommended power supply.

The unit is frozen.

Gently insert the end of a straightened paper clip or other small object into the small hole in the rear of the unit and press gently until it resets. Songs stored in the unit will not be lost.

Technical Specifications

Memory

Internal Memory Internal Memory-Type Max External Memory External Memory-Type

Battery

 Integrated Rechargeable Battery
 Li-Polymer

 Battery Life Continuous Playing Time
 Up to 16 h

 (MP3, 128 kbps, CBR, EQ = normal, volume = medium, LED Backlit= off)

LCD Display

Display Type Display Size Active Area Backlit

Features

Playable Format DRM

Voice Recording

Input Recording Format

Charging

Charging Options USB Charging Time

DC (Main Supply) Charging Time

Firmware Upgradeable

Supported Systems

Interfaces

USB USB plug type Audio DC Memory 512 Mbytes Flash memory 2GB MMC / SD-Card

Li-Polymer rechargeable Up to 16 hrs cklit= off)

FSTN / POSITIVE approx. 0.75" x 1.25"; 128 x 64 pixels; 1.52" diagonal Yes (white LED color)

MP3, WMA, WAV Yes (WMA-DRM9 version)

Built-in microphone ADPCM (WAV)

Charging via USB port or DC input jack ~3.5 hours = 80% charge ~5 hours = full charge ~ 2 hours = 80% charge ~ 4 hours = full charge

Yes (by USB interface)

Win 98SE (with driver) Win ME / 2000 / XP Mac OS X

USB 2.0 (full speed) USB 1.1 compliant 30° cord with mini-USB plug DIA. 3.5mm headphone jack x 2 DIA. 2.35mm DC jack x 1 SD / MMC card

Technical Specifications continued

Dimensions (LxWxH) Weight of 8100 unit

Max. Audio Output Frequency Response Signal-to-Noise Ratio Channel Separation T.H.D Operational Current Static Current (Sleep) Operational Voltage

Battery Capacity

4" x 2.25" x 1" 3 ounces 130mVp-p - 1 KHz, 0dB sine-wave signal file, 32Ω load) 20-20 KHz 90dB(1KHz, 0dB sine) ≥ 60dB(1KHz, 0dB sine) < 0.1% (maximum output) ~ 27mA (playing 1 KHz, 0dB sine-wave signal file, backlight on) ~ 13mA (play stop + backlight off) < 5 uA 3.3 ~ 4.2V DC 3.7V Li-lon polymer (500mAh)

Notes

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Replacement Headphones

Califone recommends the following over-ear ambient noise reducing headphones.



3068-AM

2924AVPS





CAUTION **RISK OF ELECTRIC SHOCK - DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



The lightening flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.



This product is not designed to function normally in strong electromagnetic fields. Consequently, the audio quality may degrade while the product is exposed to strong

electromagnetic fields. Normal audio quality operation will be recovered when the strong electromagnetic field is no longer present.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, SO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



Ce produit n'est pas conçu pour un fonctionnement dans de forts champs électromagnétiques. Par conséquent, la qualité sonore peut diminuer si ce produit est exposé

à un fort champ életromagnétique. La qualité sonore redeviendra normale après affaib-lissement du champ électromagnétique.

IMPORTANT SAFETY INSTRUCTIONS

ATTENTION: ALL SAFETY AND OPERATING INSTRUCTIONS SHOULD BE READ BEFORE OPERATING APPLIANCE, ALL OPERATING AND USE INSTRUCTIONS SHOULD BE FOLLOWED WHEN OPERATING THE APPLIANCE. HEED AND ADHERE TO ALL WARNINGS ON THE APPLIANCE AND IN THE OPERATING INSTRUCTIONS RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS FOR FUTURE REFERENCE.

WATER & MOISTURE - DO NOT USE THE APPLIANCE NEAR WATER; IE, BATHTUB, WASHBOWL, KITCHEN SINK, LAUN-DRY TUB, WET BASEMENT OR SWIMMING POOL.

VENTILATION - DO NOT SITUATE THE APPLIANCE SO THAT ITS LOCATION OR POSITION INTERFERES WITH ITS PROPER VENTILATION. FOR EXAMPLE, THE APPLIANCE SHOULD NOT BE SITUATED ON A BED, SOFA, RUG OR SIMILAR SURFACE THAT MAY BLOCK THE VENTILATION OPENINGS. THE APPLIANCE SHOULD NOT BE PLACED IN A BUILT-IN INSTALLATION, SUCH AS A BOOKCASE OR CABINET, THAT MAY IMPEDE THE FLOW OF AIR THROUGH THE VENTILATION OPENINGS

HEAT - SITUATE THE APPLIANCE AWAY FROM HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES OR OTHER

APPLIANCES (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

POWER SOURCES - CONNECT THE APPLIANCE ONLY TO A POWER SUPPLY TYPE DESCRIBED IN THE OPERATING INSTR-LICTIONS OR MARKED ON THE APPLIANCE

GROUNDING OR POLARIZATION - PRECAUTIONS SHOULD BE TAKEN SO THAT THE GROUNDING OR POLARIZATION MEANS OF THE APPLIANCE ARE NOT DEFEATED.

POWER CORD PROTECTION - POWER SUPPLY CORDS SHOULD BE ROUTED SO THAT THEY ARE NOT LIKELY TO BE WALKED ON OR PINCHED BY ITEMS PLACED UPON OR AGAINST THEM. PAYING PARTICULAR ATTENTION TO CORDS AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPLIANCE

CLEANING - THE APPLIANCE SHOULD BE CLEANED ONLY AS RECOMMENDED BY THE MANUFACTURER.

NON USE PERIODS - UNPLUG THE APPLIANCE POWER CORD FROM THE OUTLET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME.

OBJECT & LIQUID ENTRY - CARE SHOULD BE TAKEN SO THAT OBJECTS DO NOT FALL AND LIQUIDS ARE NOT SPILLED INTO THE ENCLOSURE THROUGH OPENINGS.

DAMAGE REQUIRING SERVICE - THE APPLIANCE SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL WHEN: (A) THE POWER SUPPLY CORD OR THE PLUG HAS BEEN DAMAGED (B) OBJECTS HAVE FALLEN OR LIQUID HAS BEEN SPILLED INTO THE APPLIANCE (C) THE APPLIANCE HAS BEEN EXPOSED TO RAIN (D) THE APPLIANCE DOES NOT APPEAR TO BE OPERATING NORMALLY OR EXHIBITS A MARKED CHANGE IN PERFORMANCE (E) THE APPLIANCE HAS BEEN DROPPED OR THE ENCLOSUBE DAMAGED

SERVICING - THE USER SHOULD NOT ATTEMPT TO SERVICE THE APPLIANCE BEYOND THAT DESCRIBED IN THE OPERATING INSTRUCTIONS. ALL OTHER SERVICING REFER TO A QUALIFIED SERVICE PERSONNEL.

Note about Safe Listening Practices



Califone is proud to collaborate with the American Speech and Hearing Association (ASHA) to promote the safe use of personal audio products in the classroom. ASHA and Califone[®] recommend three guidelines to help students use audio technology responsibly:

- Lower the volume
- Limit listening time
- Upgrade to ambient noise-reducing headphones

For more information, visit www.listentoyourbuds.org



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