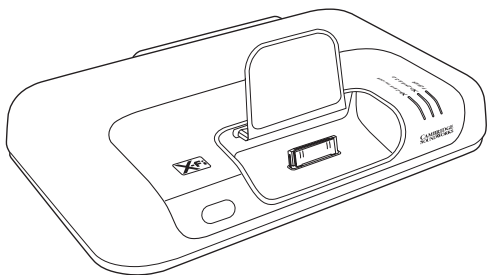**CAMBRIDGE SOUNDWORKS**®
by **CREATIVE**

MovieWorks HD

User's Guide

Congratulations!

Cambridge SoundWorks® MovieWorks HD™ puts your iPod® at the heart of your entertainment system. With video upscaling up to 1080i resolution, all the movies in your iPod can be experienced in High Definition at home.
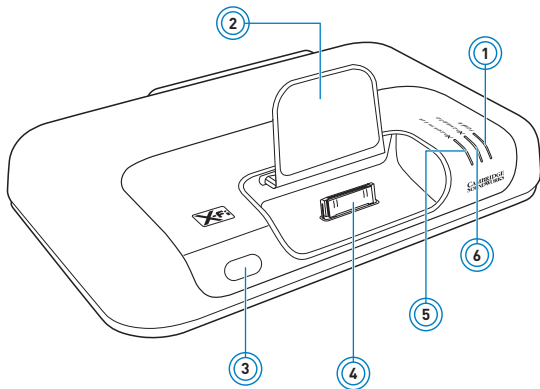
Creative's built-in X-Fi™ technology turns stereo music or movies into surround sound and restores detail to your music, giving you an unparalled audio experience.

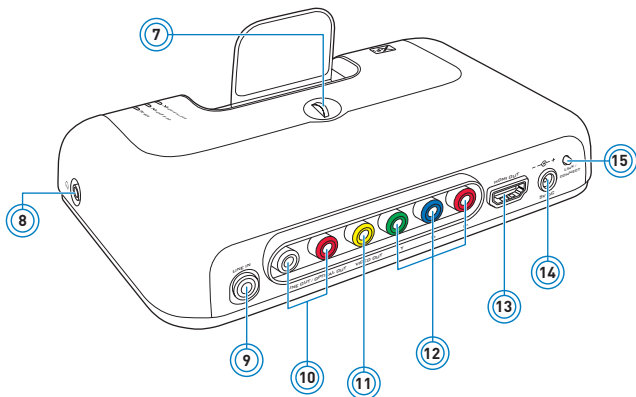Read on to learn how to get started with your new MovieWorks HD!

Contents

About Your MovieWorks HD

1   Power/Standby button/LED
    See "Understanding the Power/Standby LED" on page 12.

2   Adjustable iPod player support
3   Infrared receiver
4   iPod connector
5   X-Fi Crystalizer® button/LED
6   X-Fi CMSS®-3D button/LED

7   Scroll wheel for iPod support adjustment
8   Headphone jack
9   Audio Line In jack
10 RCA Audio Line Out jacks (white/red) / Optical Out jack (red)
11 Composite Video Out jack (yellow)
12 Component Video out jacks (green/blue/red)
13 HDMI™ Output port
14 5V DC In jack
15 Link LED/Connect button
    For use with Creative Wireless Receivers.

About Your Remote Control

Your remote control has an operating distance of up to three meters (approximately 9.8 feet).
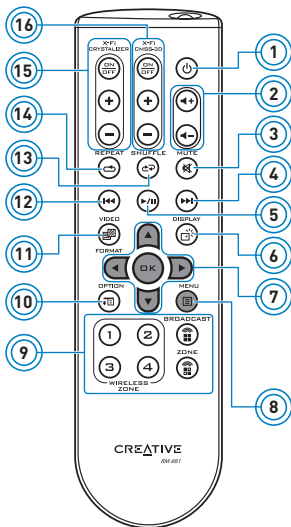

1   Power/Standby

2   Volume

3   Mute on/off

4   Next/Fast forward
Press and hold to Fast forward.

5   Play/Pause

6   Display Mode
Press to toggle between iPod Mode and TV Mode. See "Using the On-Screen-Display (OSD)" on page 13.

7   Menu navigation buttons
Press OK to execute selected menu option.

8   Back/Menu button

9   Broadcasting and Zone control buttons
For use with Creative Wireless Receivers. See "Using Wireless Features" on page 18.

10 Options

11 Video format

12 Previous/Rewind
Press and hold to Rewind.

13 iPod Shuffle

14 iPod Repeat

15 X-Fi Crystalizer buttons

16 X-Fi CMSS-3D buttons

Setting Up Your MovieWorks HD

Step 1: Dock Your iPod

MovieWorks HD does not require any iPod dock adapter. Simply dock your iPod, then adjust the iPod support forwards or backwards using the scroll wheel as shown below.
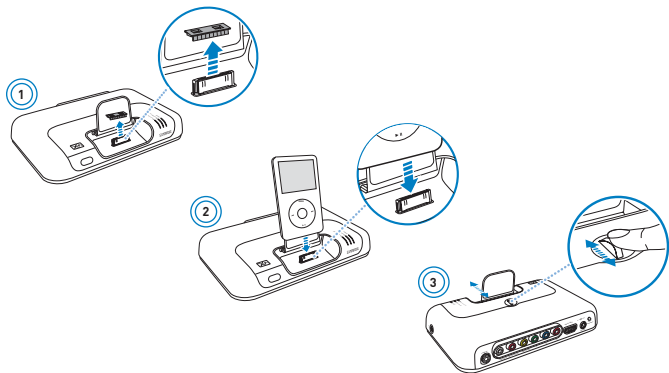

NOTE • You can connect your MovieWorks HD (see Step 2) first before docking your iPod.

• Ensure that you have selected the correct video system / TV signal (NTSC or PAL) in your iPod video settings BEFORE docking it.

Step 2: Connect Your MovieWorks HD

Video and Audio Connection

- **Using HDMI cable** (For best picture quality)
  HDMI connection provides BOTH video and audio output when
  connected to a TV with HDMI input.
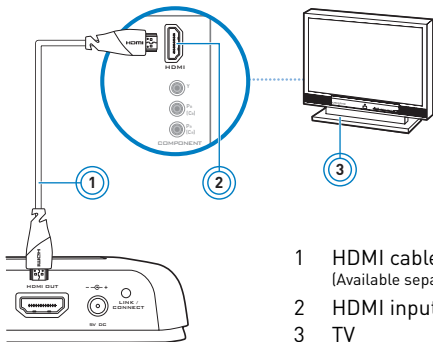
1   HDMI cable
    (Available separately)

2   HDMI input port

3   TV

NOTE • To use HDMI connection for video output only, and another type
of connection for the audio output, you can disable the HDMI
Audio output using the On-Screen-Display (OSD). From the main
menu, select **Options > Audio > HDMI Audio** and then select
Disable.

• Using your TV remote, ensure you have selected the video input
corresponding with your cable connections.

Video only Connection

- **Using component video cable**
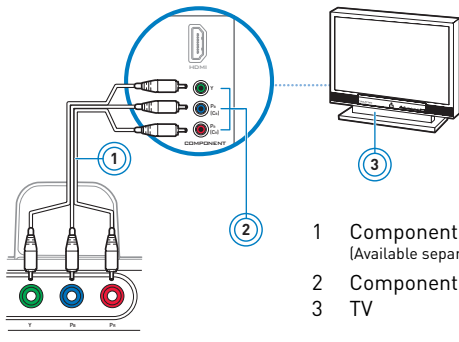
1	Component video cable
	(Available separately)
2	Component video input jacks
3	TV

- **Using composite video cable**
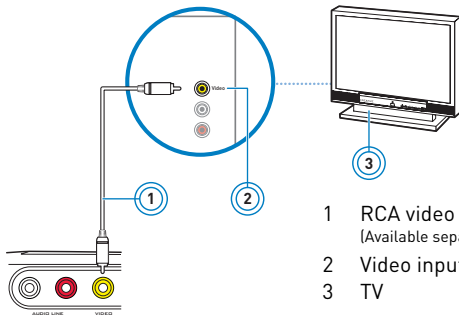
1	RCA video cable
	(Available separately)
2	Video input jack
3	TV

Audio Connection

Use one of the following audio connections, unless you are using a HDMI connection with for both video and audio.

- **Using Optical cable** (For surround sound)
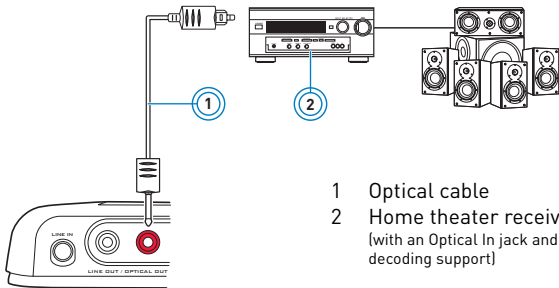
1 Optical cable
2 Home theater receiver
(with an Optical In jack and DTS^{TM} decoding support)

- **Using RCA cable**
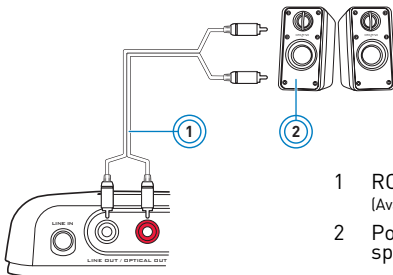
1 RCA to RCA stereo cable
(Available separately)

2 Powered stereo or 2.1 speakers

Step 3: Turn On Your MovieWorks HD
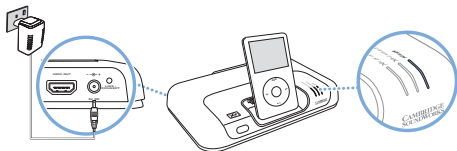
When you connect MovieWorks HD to the power outlet, it will prepare the wireless connection, so that when it is needed, the best connection can be made without any interference.

IMPORTANT Your iPod charges automatically when MovieWorks HD is connected to the power outlet.

Playing Music or Videos From Your iPod

Step 1: Insert batteries into your remote control

2 x AAA AAA

+   **−**
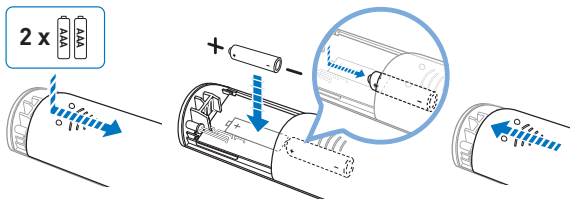
NOTE • The cover of your remote control can only be opened halfway. Do not try to detach the cover when inserting the batteries.

• To remove the batteries when they are depleted, use the same method as shown above to open the cover.

Step 2: Play music or videos

Press the Play/Pause button on your remote control to play tracks on your iPod. You can also use the On-Screen-Display (OSD) to navigate, select and play music or videos from your iPod. See "Using the On-Screen-Display (OSD)" on page 13.
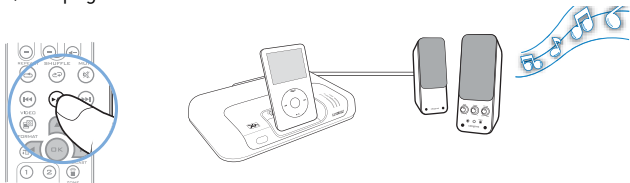
Using Your MovieWorks HD

Adjusting volume
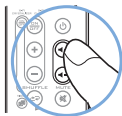
When you adjust the volume on the remote control, the volume status is shown on the connected TV screen.

Muting audio
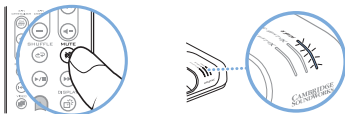
When you mute audio, the Power/Standby LED flashes red.
To unmute, press the Mute button again. The Power/Standby LED lights up white.

Turning on MovieWorks HD or enabling Standby mode

Press the Power/Standby button ⏻ on your remote control to turn on MovieWorks HD or enable Standby mode. For Power/Standby LED information, see "Understanding the Power/Standby LED" below.

NOTE You can also press the Power/Standby button/LED on MovieWorks HD.

Returning to factory default settings

Press and hold the Power/Standby button on your MovieWorks HD while you connect the power jack or plug the power adapter to the power outlet. The Power/Standby LED changes from red to white and remains lighted up in white. During a reset, MovieWorks HD reverts to the original volume setting, and turns on the X-Fi enhancements to default levels. If your MovieWorks HD is paired with any Creative Wireless Receiver, the zone control settings are also erased.

Understanding the Power/Standby LED

LED	Behavior	Status
White	Stable	Turned on and ready for use
Red	Stable	In Standby mode
	Stable (Red) -> Stable (White)	Establishing wireless connection
	Quick flashing (twice)	Receiving remote control signals
	Continuous slow flashing	Muted

NOTES For information on the Link LED, see the Creative Wireless Receiver User's Guide.

Using the On-Screen-Display (OSD)

Connect MovieWorks HD to a display device such as a TV for greater ease in configuring your audio, display and wireless settings using the menu options on the On-Screen-Display (OSD). You can also use the OSD to navigate, select and play music and movies from your iPod.

To use the OSD, switch to TV Mode by pressing the Display Mode ⊚ button on the remote control. Press again to switch back to iPod Mode. Use the navigation buttons to select menu options and the OK button to execute the selected menu option.

Overview of OSD Main Menu Options

The following options are available from the Main Menu:

- **Music** - Select and play your iPod's music content
- **Video** - Select and play your iPod's video content
- **Podcasts** - Select and play your iPod's Podcasts content
- **Options** - Configure audio, video display, wireless and other settings.

Music
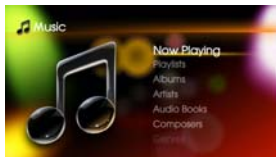
The Music option allows you to locate and list the music tracks in your iPod according to the following categories:

- Now Playing
- Playlists
- Albums
- Artists
- Audio Books
- Composers
- Genres
- Songs

Video

The Video option allows you to locate and list the videos in your iPod according to the following categories:

- Movies
- Music Videos
- TV Shows
- Video Podcasts
- Rentals
- Video Playlists

> **NOTE** The Video menu is only available for these iPod models: iPod (5th generation), iPod classic and iPod nano (3rd generation).

Podcasts
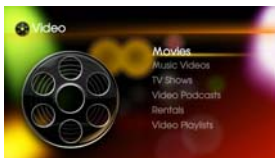
Select the desired podcast from the list to play it.

Options

Options > Audio

These are the settings you may change in the Audio menu:

- Digital Output : PCM / DTS Bitstream / DTS Connect
- HDMI Audio : Enable / Disable
- Sound Event : On / Off

Options > Video

These are the settings you may change in the Video menu:

- Video Format
  i.   HDMI Output : Auto / 1080i / 720p /480p or 576p
  ii. Analog Output : Composite / Component - Interlaced / Component - Progressive / Component - HD

- Video Enhancer
  i.   Chroma
  ii.   Luma
  iii. Sharpness
  iv.   Brightness
  v.   Contrast
  vi.   Saturation

    The value for each of the above video enhancement options can be individually adjusted.

Options > Wireless

These are the settings you may change in the Wireless menu:

- Wireless Transmit : Enable / Disable

  Select to enable or disable MovieWorks HD's wireless features.
- Broadcast : On / Off

  Select On to turn on all paired receivers.
- Zone Control : Enable / Disable Zones 1 to 4

  Select which receivers you wish to activate or deactivate.

Options > Others

These are the settings you may change in the Others Menu:

- Language

  Select from 11 OSD languages: English, French, Italian, German, Spanish, Dutch, Brazilian Portuguese, Traditional and Simplified Chinese, Japanese and Korean.
- Wallpaper

  Select from eight wallpaper colors and designs for your OSD.
- Auto Dim : On / Off
- Device Information

  Select Display Firmware Version or Display Firmware Upgrade

Using Wireless Features

To stream music wirelessly throughout the house, purchase the Creative Wireless Receiver, or additional units, if required. For more information on setting up these receivers, refer to the Creative Wireless Receiver User's Guide.

You can also configure the Creative Wireless Receivers using the On-Screen-Display (OSD). From the main menu, select **Options > Wireless**.

• Broadcasting - Stream music to every room in the house.
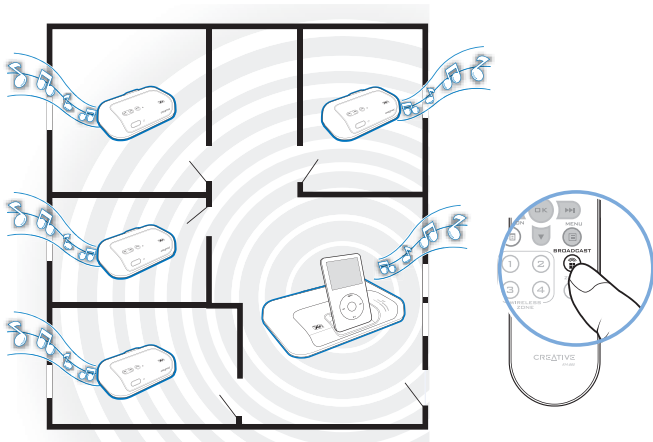
• Zone Control - Control which rooms (up to four) receive music.
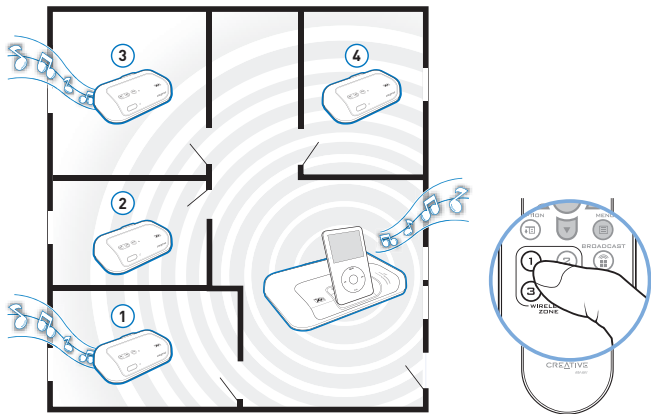
NOTES Refer to the Creative Wireless Receiver User's Guide for more information on using these wireless features .

Using X-Fi Enhancements

X-Fi Crystalizer and X-Fi CMSS-3D enhancements have been optimally calibrated for your listening pleasure. Press the buttons on your MovieWorks HD or remote control to turn the X-Fi Crystalizer or X-Fi CMSS-3D enhancements on or off. Use the remote control to adjust the levels of these enhancements.
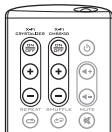
By default, X-Fi Crystalizer and X-Fi CMSS-3D enhancements are enabled.

X-Fi CMSS-3D is dependant on your speaker or headphone setup.

X-Fi CMSS-3D Virtual - Enjoy immersive surround sound when your MovieWorks HD is connected to your Hi-Fi system or any powered stereo speaker system.

X-Fi CMSS-3D Headphone - Obtain immersive surround sound when your MovieWorks HD is connected to your headphones.

X-Fi CMSS-3D Surround - Create multichannel surround sound from stereo recordings by

- connecting the optical cable to the MovieWorks HD Optical Out jack.
- using an amplifier or AV receiver that has an Optical In jack and that supports DTS decoding.

Connecting Headphones
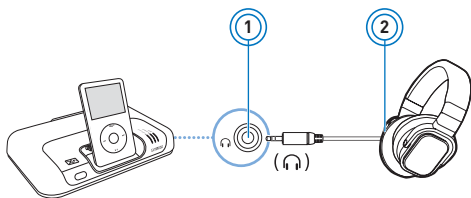
1   Headphone jack
2   Headphones

Speaker output is automatically disabled when headphones are
connected to your MovieWorks HD. Disconnect the headphones to
enable audio output through your speakers.

Connecting To An External Stereo Audio Source

To enjoy the X-Fi difference, connect external audio sources (see examples
below) to the Line In jack on your MovieWorks HD, as shown below.
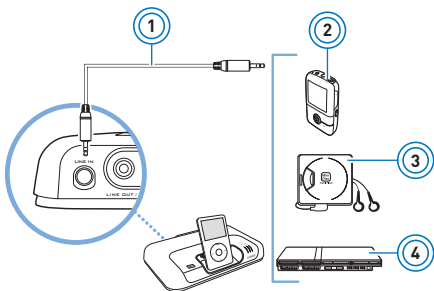
1   3.5 mm-to-3.5 mm
     audio cable
     (available separately)
2   MP3 player
3   MiniDisc player
4   Gaming console

FAQs

This section covers questions you might have while using your product. For further assistance, consult our self-help tool "Knowledge Base". Go to **www.creative.com**, select your region and country, and then select **Support**.

Why can't I hear any sound from my headphones or speakers?

Check that:

- your speaker system's power is turned on.
- your MovieWorks HD is powered from the power adapter.
- the volume is not muted. Press the Mute button on your remote control to unmute.
- you have connected headphones or speakers to your MovieWorks HD.
- you have disconnected your headphones from your MovieWorks HD. This applies only if you want to hear sound from speakers.

Why can't I hear much difference in sound after enabling X-Fi Crystalizer?

X-Fi Crystalizer works most dramatically on sound with many high and low frequencies. Some types of music have mostly mid-range frequencies, so the change may not be as apparent.

Do I need to enable the Equalizer feature in iPod to fully experience X-Fi Xtreme Fidelity?

X-Fi enhancements are best experienced when the Equalizer feature in your iPod is disabled.

What is the best position for powered stereo speakers when X-Fi CMSS-3D Virtual is enabled?

Good speaker placement can enhance your listening experience, while careless placement can make good audio systems sound bad. Below is our recommendation for powered stereo speakers.
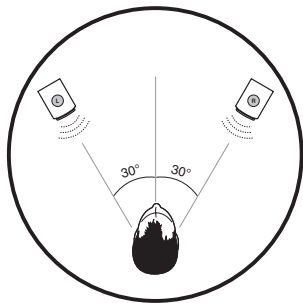
Can I use noise-cancelling headphones or other special audio-enhancing headphones with MovieWorks HD?

When using headphones or earphones with special audio-enhancing features, disable the effects before using them with MovieWorks HD. The audio enhancements on the headphones or earphones may interfere with the X-Fi enhancements on MovieWorks HD.

Why do other wireless and electronic devices detect interference when I turn on MovieWorks HD?

Your other devices may be detecting signals sent out by MovieWorks HD. If you are not using the Creative Wireless Receiver, disable the wireless feature using the On-Screen-Display (OSD). From the main menu, select **Options > Wireless > Wireless Transmit > Disable**. Similarly, use the OSD if you wish to enable the wireless feature again.

How can I minimize electronic interference with other wireless devices?

Do the following:

    i.   Place MovieWorks HD away from other devices (for example, wireless routers) that transmit wireless signals.

    ii. If you have two or more MovieWorks HD transmitting simultaneously, ensure that they are placed at least five meters apart to prevent interference.

    iii. Place MovieWorks HD or wireless receivers away from large metal surfaces.

Can I change the playback volume using the iPod click wheel?

Your iPod click wheel does not control volume when your player is docked, even when your iPod appears to be registering volume level changes. When your iPod is docked, volume can only be controlled using the Volume control buttons on your remote control.

Why is my remote control not responding?

Your remote control's batteries may have depleted. Replace the batteries.

Will my saved settings be lost when I unplug my MovieWorks HD from the power outlet?

No. MovieWorks HD will retain the volume and X-Fi enhancements' on/off settings that was last used before your MovieWorks HD was unplugged from the power outlet.

Why does my CRT monitor become distorted whenever MovieWorks HD is turned on?

CRT monitors typically have no proper shielding, so their screens may become distorted in the presence of strong magnetic or radio signals. Place your MovieWorks HD as far away as possible from your monitor.

General Specifications

Connectivity

- HDMI port
- Component Video Out jacks
- Composite Video Out jack
- RCA Audio Line Out jacks / Optical Out jack
- Audio Line In - 3.5 mm (1/8") Stereo jack
- Headphone Out - 3.5 mm (1/8") Stereo jack

X-Fi Technology

- X-Fi Crystalizer
- X-Fi CMSS-3D Surround
- X-Fi CMSS-3D Virtual
- X-Fi CMSS-3D Headphone

Power Adapter

- Supply Voltage: 5V (typical)
- Current: 4 A
- Power: 20 W (maximum)

Radio frequency (RF)

- Operating RF range: 2400 - 2483.5 MHz
- Number of RF channels: 3
- RF transmitter power output: 16 dBm (typical)

Safety Information

Refer to the following information to use your product safely, and to reduce the chance of electric shock, short-circuiting, damage, fire, hearing impairment or other hazards. **Improper handling may void the warranty for your product. For more information, read the warranty available with your product.**

- Do not dismantle or attempt to repair your product.
  Refer all servicing to authorized repair agents.
- Do not expose your product to temperatures outside the range of 0°C to 40°C (32°F to 104°F).
- Do not pierce, crush or set fire to your product.
- Keep your product away from strong magnetic objects.
- Do not subject your product to excessive force or impact.
- Do not expose your product to water or moisture.
  If your product is moisture-resistant, take care not to immerse your product in water or expose it to rain.

Earphones

- When a conductive apparatus, such as earphones, is used in close proximity with a CRT television or CRT monitor, the latter may emit an electrostatic discharge. The electrostatic discharge can be felt as a static shock. While this static shock is usually harmless, it is good practice to avoid close contact with CRT devices when using earphones.
- Do not listen to audio on your earbuds or headphones at high volume for prolonged periods of time as hearing loss may result. For users in the United States, go to **www.hei.org** for more information.
- Do not listen to your audio device at high volume when driving, cycling or crossing the road, especially in heavy traffic, or in any other traffic condition where such use will hinder safe travel on the roads. We recommend that consumers be extremely cautious when using this device on the road.

Embedded Battery

- Do not attempt to remove the embedded battery.
  The product must be disposed of according to local environmental regulations. To replace the battery, return your product to your regional support office. For product service information, go to **www.creative.com**.

Removable Battery

- The battery must be recycled or disposed of properly. Contact local agencies for recycling and disposal information.
- Do not allow metal objects to touch the terminals of your battery.
- If there is leakage, an offensive odor, discoloration or deformation during charging or use, remove the battery and do not use it again. Clean your hands well before touching food or sensitive areas, for example, your eyes.

Bluetooth Product

- Do not turn on or use your product in an airplane.

Declaration of Conformity

According to the FCC96 208 and ET95-19

Manufacturer/Importer's Name: **Creative Labs, Inc.**
Manufacturer/Importer's Address: **1901 McCarthy Boulevard**
Milpitas, CA. 95035
United States
Tel: (408) 428-6600

declares under its sole responsibility that the product

Trade Name: **Creative Labs**
Model Numbers: **SB0930**

has been tested according to the FCC / CISPR22/97 requirement for Class B devices and found compliant with the following standards:

EMI/EMC: ANSI C63.4 2003, FCC Part 15 Subpart B & C
Complies with Canadian ICES-003 Class B, RSS-GEN & RSS-210

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 undesirable operation.

Ce matériel est conforme à la section 15 des régles FCC.
Son Fonctionnement est soumis aux deux conditions suivantes:
(1) Le matériel ne peut étre source D'interférences et
(2) Doit accepter toutes les interférences reques, Y compris celles pouvant provoquer un fonctionnement indésirable.

Compliance Manager
Creative Labs, Inc.
June 23, 2008

Regulatory Information

Notice for the USA

FCC Part 15: 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 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.

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 my cause undesired operation.

CAUTION: To comply with the limits of the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed with computer equipment certified to comply with Class B limits.

All cables used to connect to the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non shielded cables may results in interference to radio or television reception.

MODIFICATION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

⚠️ **WARNING**: To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

Notice for Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that my cause undesired operation of the device.

CANADIAN CLASS B STATEMENT: This digital device does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications.

Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Class B prescrites dans la norme sur le materiel brouilleur. "Appareils Numeriques," NMB-003 edictee par le ministre des Communications.

MODIFICATION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Toute modification non approuvé explicitement par le fournisseur de licence de l'appareil peut entraîner l'annulation du droit de l'utilisateur à utiliser l'appareil.

Version 1.0

October 2008