Razer™ barracuda™

AC-1 GAMING AUDIO CARD

Congratulations on purchasing the Razer Barracuda™ Gaming Audio Card! The Razer Barracuda™ Gaming Audio Card is by far one of the most technologically advanced Audio Cards available in the world today with gaming-specific positional audio developed For Gamers, By Gamers™.

Millions of dollars, thousands of engineering hours and s***loads of gameplay testing has gone into this baby but what do you care? You've just got the most kick-ass audio card your rig will ever have and that's what matters.

We know you can't wait to get down and do some serious damage with this baby so lets get the fragging on the road.

CONTENTS

PACKAGECONTENTS

- Razer Barracuda™ AC-1 Gaming Audio Card
- Razer Barracuda™ Installation CD-ROM
- Audio Splitter Cable
- Quick Start Leaflet
- Master Guide
- Certificate of Authenticity

"REDEFININGGAMINGAUDIO"

Today, the Razer Barracuda™ Gaming Audio Card is by far one of the most technologically advanced sound cards available in the world with gaming-specific positional audio. Powered by Razer Fidelity™, gamers are equipped with the advantage of an expanded dynamic soundstage for gaming tuned frequencies with Razer ESP™ (Enhanced Sonic Perception™).

The in-built audio chip processes and optimizes audio signals from games to provide the ultimate positional gaming audio experience through the Razer 3D (720°) Positional Gaming Audio Engine™.

The Razer Barracuda™ AC-1 Gaming Audio Card also features optimized proprietary software drivers to provide for the prioritization of enhanced gaming audio signals while leaving as small a memory footprint as possible.

We are a company of gamers who work closely with the gaming community and we know exactly what you want (and what you don't!). The Razer Barracuda™ AC-1 Gaming Audio Card is designed to provide you with the much needed competitive edge in gameplay, made For Gamers. By Gamers.™ Undoubtedly, the Razer Barracuda™ AC-1 Gaming Audio Card will be the new benchmark in competitive gaming audio and you're at the helm of this technological revolution.

We know you're bustin' at your chops to put this baby through the rigors of gameplay. But before you do so, take some time to go through this Master Guide in order to unleash the maximum potential of your Razer Barracuda™ AC-1's capabilities.

Sign up at **www.razerzone.com** for the latest news, product and driver announcements to stay ahead of the game. (I do assure you that all information provided will be kept private).

There's no turning back. You're one of us now.
Peace and great gaming.

RaZerguy

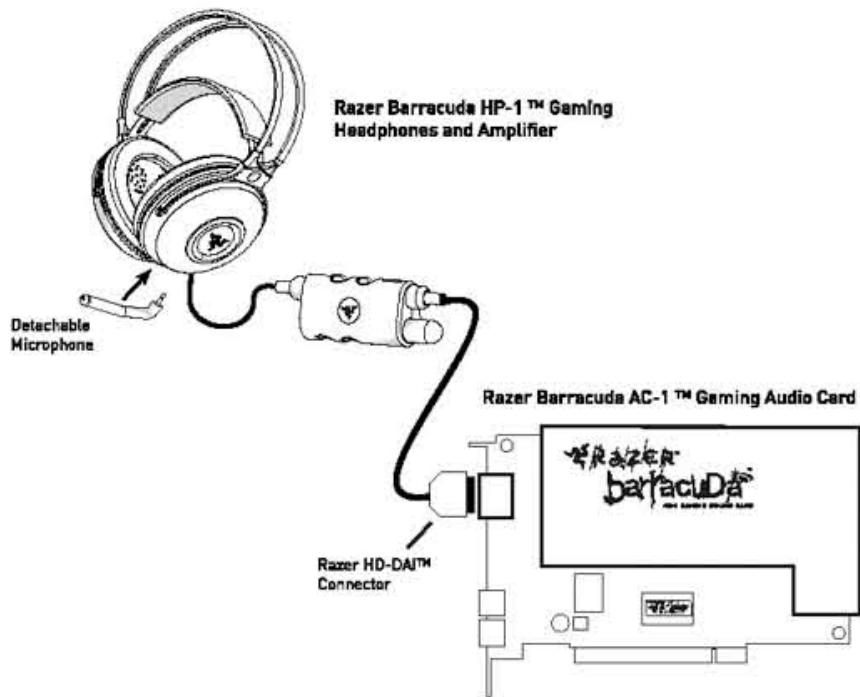**RAZERGUY**

A Razer HD-DAI™ Connector
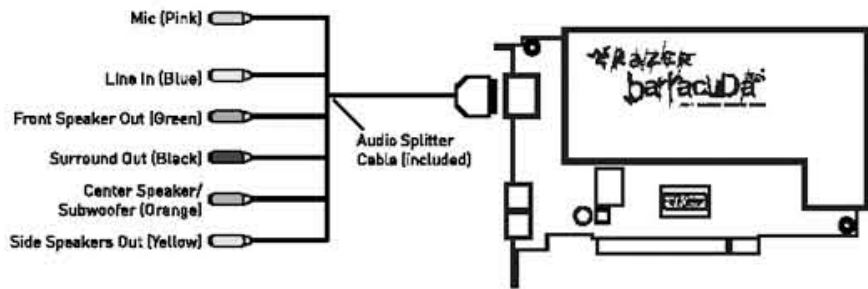**B** CD-In
C Aux In [CD Audio 2]
D Optical In – for high fidelity optical recording, MiniDisc, digital mixer, DAT etc.
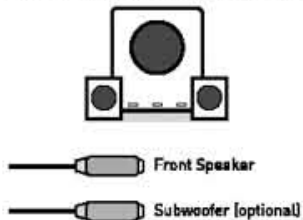**E** Optical Out – for surround gaming experience with home theater systems

Razer Barracuda HP-1 ™ Gaming
Headphones and Amplifier

Detachable
Microphone

Razer Barracuda AC-1 ™ Gaming Audio Card

Razer HD-DAI™
Connector

5 CONNECTING WITH OTHER AUDIO DEVICES

Mic (Pink)

Line In (Blue)

Front Speaker Out (Green)

Surround Out (Black)

Center Speaker/
Subwoofer (Orange)

Side Speakers Out (Yellow)

Audio Splitter
Cable (included)

RAIZER barracuDa

Pink

Microphone

Blue

Portable Cassette
Player/Electric Guitar

Green

Stereo Headphones

Stereo or 2.1 Speakers/Headphones

Front Speaker

Subwoofer (optional)

4 or 4.1 Speakers

Front Speaker

Rear Speaker

Subwoofer (optional)

5.1 Speakers

Front Speaker

Rear Speaker

Center Speaker/
Subwoofer

7.1 Speakers

Front Speaker

Rear Speaker

Center Speaker/Subwoofer

Side Speaker
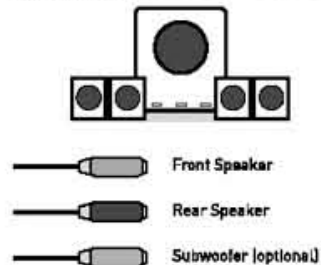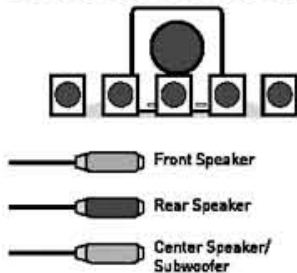
System Requirements

- Genuine Intel® Pentium® II 350MHz, AMD® K6 450MHz processor or faster
- Windows® ME/2000/XP(SP2)
- 128MB RAM
- 55MB of free hard disk space
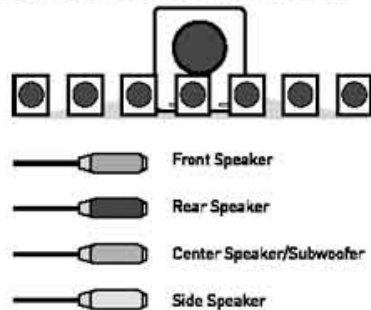- CD-ROM/CD-RW required for software installation

Setting up the Razer Barracuda™ AC-1 Gaming Audio Card

1. Turn off your Personal Computer (PC), unplug its power cord and disconnect any external peripherals. Remove the cover of your PC.

2. If you're replacing a sound card that's already in your PC, unscrew its bracket and gently remove the card out of its PCI slot.

3. Locate a free PCI expansion slot. Remove the metal slot rear cover by unscrewing its securing screw. Save the screw to secure the sound card to the chassis later.

4. Before removing the Razer Barracuda™ AC-1 Gaming Audio Card from its protective bag, touch the PC chassis to discharge any static electricity build-up from your body. Hold the card by its edges to avoid touching the gold edge connectors or components.

5. Gently press the Razer Barracuda™ AC-1 Gaming Audio Card firmly into the PCI slot until it snaps into place. Secure its rear metal bracket to the chassis with the screw you removed in step 3.

6. Replace the PC's cover, reconnect the power cord and peripherals.

SOFTWAREINSTALLATION

Installing the drivers and software

1. Connect your speakers, microphone, and any other audio peripherals to the appropriate inputs and outputs on the Razer Barracuda™ AC-1 Gaming Audio Card.

2. Power-on your PC. If the "Found New Hardware Wizard" window is displayed, click on the Cancel button to end this process.

3. Insert the Razer Barracuda™ AC-1 Gaming Audio Installation CD into the CD-ROM drive. If the installation menu does not appear within 30 seconds, click on the "My Computer" icon, then double-click on the CD-ROM drive folder to open it, and select 'SETUP.EXE' to run the setup program from the CD.

4. When the Razer Barracuda™ AC-1 Gaming Audio Card installation menu appears, click NEXT and follow the on-screen instruction.

5. The installation procedure will install the Razer Barracuda™ AC-1 Gaming Audio drivers and Control Panel programs.

When the installation is completed, you will be prompted to reboot the PC.

REGISTER YOUR RAZER™ PRODUCT

At the end of the Razer™ software installation, just follow the prompts or get instant gratification at www.razerzone.com

What you'll get:
- 2 years limited manufacturer's warranty
- Free online support

TECHNICAL SUPPORT

For technical support, please visit www.razersupport.com

THE RAZER BARRACUDA™ PROFESSIONAL GAMING AUDIO CONTROL PANEL

The Audio Control Panel is divided into 3 main sections - **Main Control**, **Modes** and **Advanced Settings**.

The Main Control panel includes speaker modes selection, speakers test, mixer, Razer ESP™ and digital output selection

The Modes panel allows you to upmix your game audio from stereo to multi-channel surround effects

The Advanced Settings panel provides customization and control to bass setting, equalizer and driver information

The Main Control Panel

Audio Output section lets you select the type of speaker configuration modes that matches your physical speaker setup

Master Control/Mixer enables you to set the master volume and individual component volumes

Click on the Record Control for recording source selection and gain controls

Sound Stage Output allows you to test each individual speaker or perform a 3D surround sound test. It also lets you control the individual volume to your liking

**Speaker Time Delay:** Applicable only in 4 channel speaker mode
A. Turn on Speaker Time Delay
B. Set channel delay time

This function is a professional audio feature to set your multi-channel speaker output delay time. It must be used for all the modes in Dolby Pro Logic II X. With this feature, you can set delay times for your Center/Side Surround/Back Surround channels for your professional audio performance needs.

S/PDIF Output Selection

Digital output mode is configured to define which format will be sent out by the S/PDIF interface. There are 7 kinds of digital output mode: Dolby Digital Live/ DTS Interactive/Digital Audio 44.1K/ 48K/ 96K/ 192K/ SPDIF Loopback.
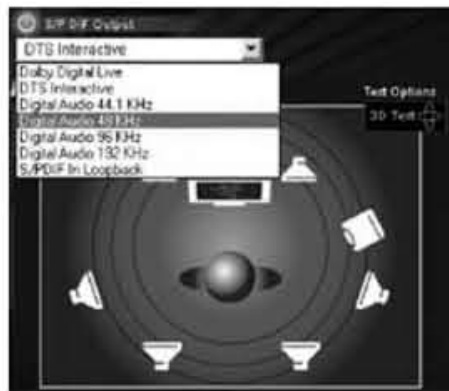
- **Dolby Digital Live**
    - The audio data will be encoded to AC-3 5.1 format and output via S/PDIF out
- **DTS Interactive**
    - The audio data will be encoded to DTS Cinema 5.1 bit stream format and output via S/PDIF out
- **Digital Audio 44.1KHz**
    - SPDIF out with 44.1KHz sample rate
- **Digital Audio 48KHz**
    - SPDIF out with 48KHz sample rate
- **Digital Audio 96KHz**
    - SPDIF out with 96KHz sample rate
- **Digital Audio 192KHz**
    - SPDIF out with 192KHz sample rate
- **S/PDIF In Loopback**
    - S/PDIF in Loopback to S/PDIF out

Recording Mode

1. Click on the Record Control to bring up the Record Source Menu.

2. In the Record Source Menu, you are allowed to select the recording source and adjust the recording gain.

3. Click on the Tool icon next to the Microphone or S/PDIF to bring up the respective Advanced Settings menu.

S/PDIF Settings

Microphone Options

If you feel that the microphone sound is too soft, you can boost the volume by +20dB. Select the "Boost" option to enable it. Please note that this will enhance any background noise as well.

Razer ESP™ (Extra Sonic Perception™)

The human brain has difficulty pinpointing which direction a sound is coming from if it falls below a certain threshold.

Razer ESP™ allows you to control your hearing range in DirectSound3D games by altering the volume drop-off behavior of distant sounds. Sounds that may have been previously inaudible will now become much clearer.

Razer ESP™ technology also gives you an advantage by boosting critical sounds, such as an enemy's footsteps, to a more audible level. This effectively allows you to pinpoint the exact location of your enemy more accurately than ever before. The actions of your opponents will be magnified by a larger degree and so will your frag rate.
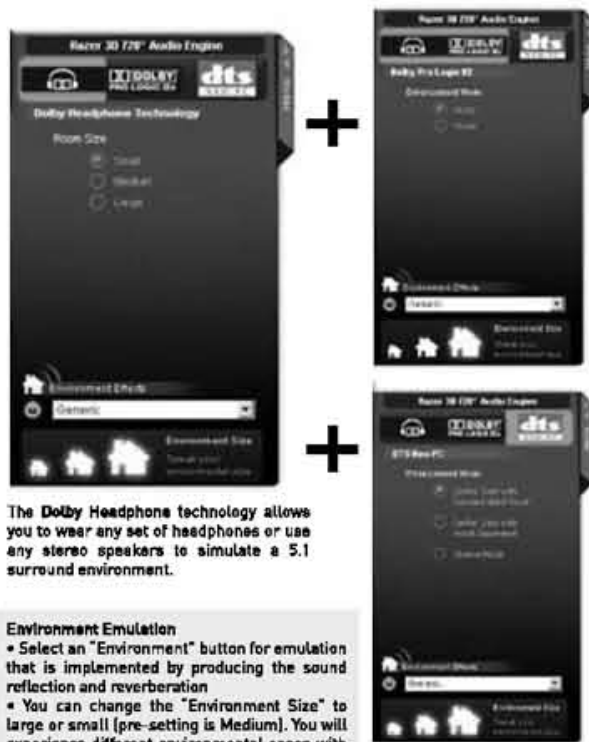
Set the ESP slider to MIN for default game experience. Distant sounds may be too soft to hear depending on your speaker setup.

Set the ESP slider to MAX to hear further and more distinctly, and pinpoint where an enemy is or where shots are coming from.

The Modes Panel (for Headphone Selection)

The Dolby Headphone technology allows you to wear any set of headphones or use any stereo speakers to simulate a 5.1 surround environment.

Environment Emulation
• Select an "Environment" button for emulation that is implemented by producing the sound reflection and reverberation
• You can change the "Environment Size" to large or small (pre-setting is Medium). You will experience different environmental space with each selection.

The Dolby Headphone with Dolby Pro Logic IIX technology will expand any existing stereo or 5.1 channel audio for a 6.1 or 7.1 channel playback, creating a seamless, natural surround sound field that immerses you in the ultimate gaming experience.

Two listening modes are available for selection - Music and Movie

The Dolby Headphone with DTS Neo-PC will turn your stereo audio (WMA, MP3, CD and gaming audio) into a convincing 7.1 multi-channel audio experience.

Three listening modes are available for selection:
- Centre Gain
  with Concentrated Vocal
- Centre Gain
  with Vocal Separated
- Cinema Mode

The Modes Panel (for 2 Speaker Selection)

The Virtual Speaker Technology with Dolby Pro Logic IIX delivers a virtual surround listening experience from any high-quality stereo source.

Two listening modes are available for selection - Music and Movie.
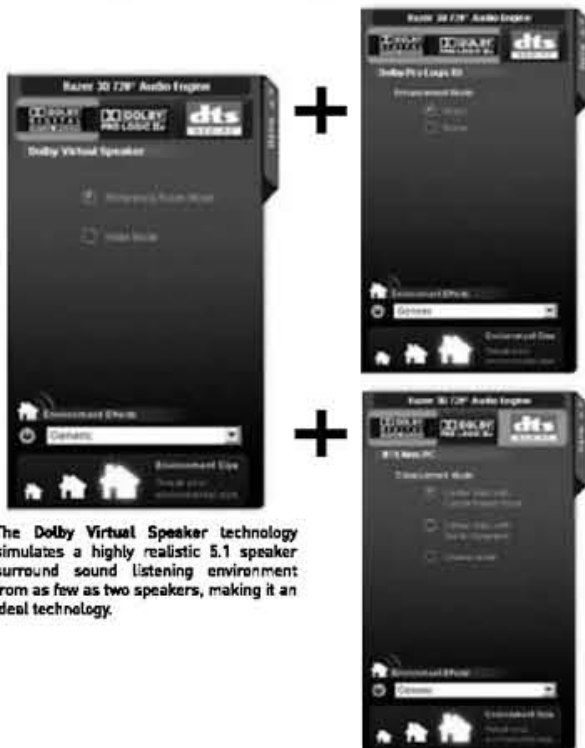
The **Dolby Virtual Speaker** technology simulates a highly realistic 5.1 speaker surround sound listening environment from as few as two speakers, making it an ideal technology.

The Virtual Speaker Technology with DTS Neo-PC will turn your stereo audio (WMA, MP3, CD and gaming audio) into a convincing 7.1 multi-channel audio experience.

Three listening modes are available for selection:
- Centre Gain with concentrate Vocal
- Centre Gain with Vocal Separated
- Cinema Mode

The Advanced Settings Panel

Equalizer
The 10-Band Equalizer provides different frequency bands that can adjust the system frequency response or tone. 12 equalizer presets are available from the pull-down menu for quick access. Click on "+" to add your personal settings into the "User Defined" list; Click on "-" to delete the current setting record.

Bass Control
The Bass Control allows you to adjust the bass threshold frequency, e.g. if set at 150Hz, all sounds that are 150Hz and below in frequency will be played through your subwoofer instead of your speakers. This is particularly helpful if your surround speakers cannot handle low bass sounds well.

Q: Must the Razer Barracuda™ AC-1 Gaming Audio Card and the Razer Barracuda™ HP-1 Gaming Headphones be used together?
A: No. While the Razer Barracuda™ AC-1 Gaming Audio Card and Razer Barracuda™ HP-1 Gaming Headphones are built to be an Integrated Audio System (known as the Razer Barracuda™ IAS), they can also be used separately with existing sound cards or headphones.

Q: Will the Razer Barracuda™ AC-1 Gaming Audio Card sound as good with my exisiting speakers or headphones if I don't use the Razer Barracuda™ HP-1 Gaming Headphones?
A: The Razer Barracuda™ AC-1 delivers phenomenal sound quality and gaming positional audio even with your exisiting headphones and speakers. When you replace your legacy sound card or onboard audio from the motherboard with the Razer Barracuda™ AC-1, you will experience a marked increase in the sonic quality of your headphones and speakers. However with the Razer Barracuda™ HP-1 Gaming Headphones, you'll have one of the best gaming audio systems in the world.

Q: Will the Razer Barracuda™ HP-1 Gaming Headphones work with my exisiting audio card?
A: Yes they will. While you cannot use the dedicated Razer Channel™ to enjoy optimized gaming audio, the Razer Barracuda™ HP-1 Gaming Headphones will provide you with true positional audio with your current sound card. You will immediately notice an improvement in your positional audio and gameplay. But why settle for second best when you can have the world's best audio gaming card - the Razer Barracuda™ AC-1 Gaming Audio Card.

Q: Can the Razer Barracuda™ AC-1 Gaming Audio Card play music files such as MP3s and WAV files?
A: While the Razer Barracuda™ AC-1 Gaming Audio Card was built as the world's ultimate gaming audio card, it also delivers top notch audio quality for your music files and general listening. It is one of the best audio cards in the world today.

Q: I've heard of "Powered By Razer Precision™" - but what is "Powered By Razer Fidelity™"?
A: "Powered By Razer Fidelity™" is our indicia of technological excellence in gaming audio and is also a stamp of approval that this meets the demanding requirements of true gaming audio. Only products that include Razer's leading gaming audio technology may be branded with this logo.

Q: How does the Razer Barracuda™ HP-1 Gaming Headphones optimize my gaming experience?
A: The Razer Barracuda™ HP-1 has 8 discrete speaker drivers in the headphones which have been tuned for optimal positional audio. The driver components have been specially selected to provide for low decibel pick up so that every single audio signal is transmitted and received without loss. The 99% oxygen-free copper cable is a final touch to ensure minimal loss in audio transmission.

Q: What does the Razer Barracuda™ IAS have that enhances voice communications?
A: The Razer Barracuda™ IAS has a three-fold approach to team-based games that require top-notch audio transmission and communications. The Razer Barracuda™ HP-1 features a cutting-edge, noise-cancelling microphone that allows for pick up of audio cues and voice communications even in noisy environments. These signals are transmitted through a proprietary high-definition connection known as the Razer HD-DAI™.

The Razer Barracuda™ AC-1 Gaming Audio Card then processes and optimizes the voice communications before transmitting the signals. The software drivers onboard the Razer Barracuda™ AC-1 are also tweaked to provide clarity during voice communications, which is essential during team-based games.

LEGALESE (and other mumbo jumbo)

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.

For more information, refer to the online help system on your Razer Barracuda™ AC-1 Gaming Audio Card CD ROM or www.razerzone.com

English
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(Applicable in the European Union and other European countries with separate collection systems)

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(Anzuwenden in den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Sammelsystem)

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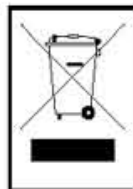
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Português
Eliminação Correcta Deste Produto (Resíduo de Equipamentos Eléctricos e Electrónicos)

Esta marca, apresentada no produto ou na sua literatura indica que ele não deverá ser eliminado juntamente com os resíduos domésticos indiferenciados no final do seu período de vida útil. Para impedir danos ao ambiente e à saúde humana causados pela eliminação incontrolada de resíduos deverá separar este equipamento de outros tipos de resíduos e reciclá-lo de forma responsável, para promover uma reutilização sustentável dos recursos materiais. Os utilizadores domésticos deverão contactar ou o estabelecimento onde adquiriram este produto ou as entidades oficiais locais para obterem informações sobre onde e de que forma podem levar este produto para permitir efectuar uma reciclagem segura em termos ambientais. Os utilizadores profissionais deverão contactar o seu fornecedor e consultar os termos e condições do contrato de compra. Este produto não deverá ser misturado com outros resíduos comerciais para eliminação.

Dansk
Korrekt affaldsbortskaffelse af dette produkt (elektrisk & elektronisk udstyr)

Mærket på dette produkt eller i den medfølgende dokumentation betyder, at produktet ikke må bortskaffes sammen med almindeligt husholdningsaffald efter endt levetid. For at undgå skadelige miljø- eller sundhedspåvirkninger på grund af ukontrolleret affaldsbortskaffelse skal dette produkt bortskaffes særskilt fra andet affald og indleveres behørigt til fremme af bæredygtig materialegenvinding. Hjemmebrugere bedes kontakte forhandleren, hvor de har købt produktet, eller den lokale myndighed for oplysning om, hvor og hvorden de kan indlevere produktet med henblik på miljøforsvarlig genvinding. Erhvervsbrugere bedes kontakte leverandøren og læse betingelserne og vilkårene i købskontrakten. Dette produkt bør ikke bortskaffes sammen med andet erhvervsaffald.