Wave ON™

aON 7.1채널 USB 홈시어터 헤드폰
7.1ch USB Home Theater Headphone

The World's First 7.1ch Headphone,

with DOLBY DIGITAL LIVE   dts CONNECT   dts INTERACTIVE   dts NEO:PC

User's Manual

aON™ 7.1™

MCH-501U : AON 7.1ch USB Headphone

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DOLBY DIGITAL LIVE · Dolby Digital Live™
dts CONNECT · DTS CONNECT™
dts INTERACTIVE · DTS INTERACTIVE™
dts NEO:PC · DTS NEO:PC™

Wave ON™

▶ **The most convenient All-in-One system with AC3, DTS sound decoder, Dolby / DTS encoder and Amplifier**

▶ **The World's First 7.1ch Headphone with Dolby Digital Live™, DTS Interactive™ and DTS NEO:PC™**

▶ **Feel real 7.1ch home theater sound at headphone**

▶ **Built-in 7.1 channel sound card**

Thank you for your purchase of the **AON 7.1ch USB Home Theater Headphone** of WaveON Inc.
Please read this user's manual before using AON product and operate the product based on recommended methods in this manual. Also, fill in the blank of the Product Warranty Card and keep this card carefully for your troubleshooting.
Changes in specifications and features of the product may be made without notice or obligation.
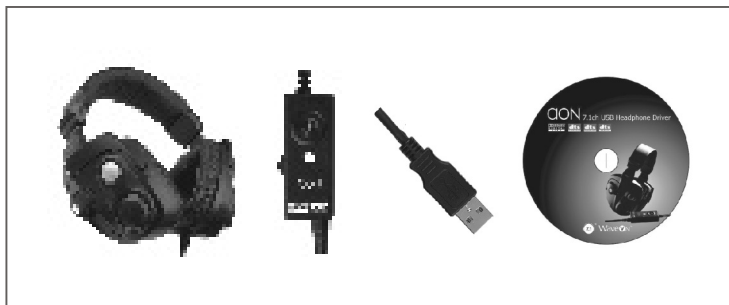• Dolby and double-D symbol are registered trademarks of Dolby Laboratories.
• "DTS CONNECT", "DTS INTERACTIVE" and "DTS NEO:PC" are trademarks of DTS, Inc.
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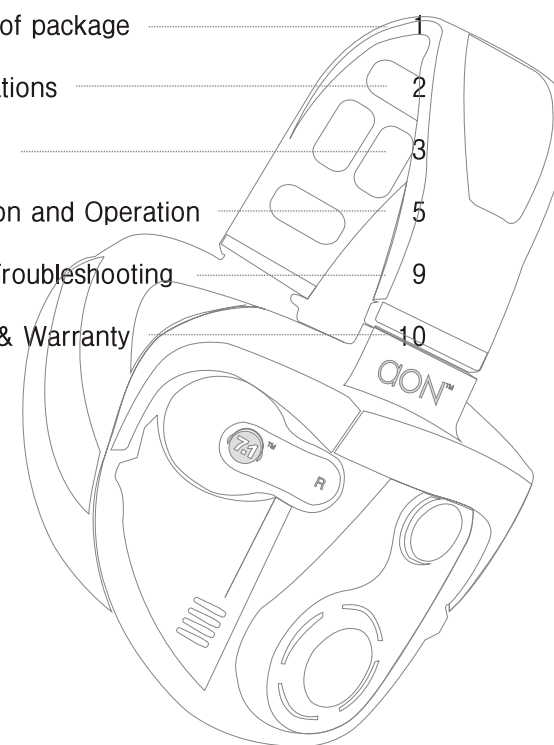
Contents

● AON 7.1ch USB Headphone System: MCH-501U
Headphone + USB Control Unit

① AON 7.1ch Headphone 1EA

② AON 7.1ch USB Control Unit with Microphone and USB cable 1EA

③ Driver Installation CD 1EA

④ User's Manual 1EA
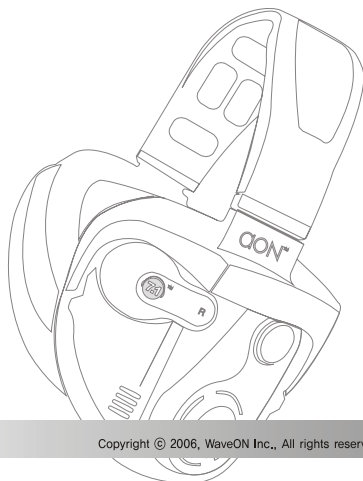
● AON 7.1ch USB Headphone

❖ Impedance	Front / Center Unit: 32 Ohm at 1KHz, 30mm
	Rear / Rear Back Unit: 32 Ohm at 1KHz, 32mm
	Subwoofer: 32 Ohm at 1KHz, 43mm
❖ Frequency Response	18 ~ 22KHz
❖ Cord	Straight, 310cm
❖ Weight	280g (headphone only)

● AON 7.1ch USB Control Unit

❖ Interface	USB Connection Port (USB 1.1/2.0 compatible)
❖ SNR	> 92 dB
❖ Distortion	< 0.4 %
❖ Power Consumption	Max. 5V, 500mA
❖ Size	29 X 17 X 70mm (W X D X H)
❖ Weight	40g

● Microphone

❖ Sensitivity	40dB±3dB
❖ SNR	> 58dB
❖ Frequency Response	50 ~ 20KHz
❖ Impedance	Max. 2.2kΩ
❖ Input S.P.L	Max. 110dB
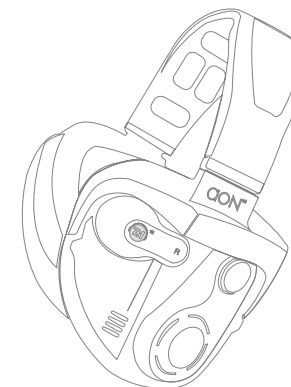
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7.1ch USB Home Theater Headphone System

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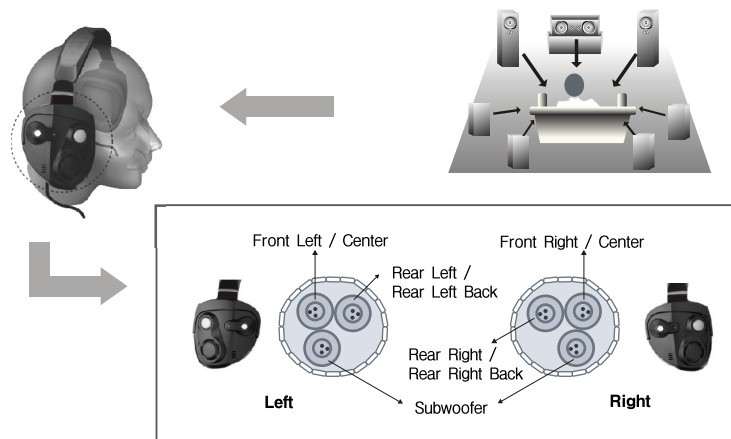
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AON 7.1ch USB Headphone

① Front / Center Speaker

② Subwoofer Speaker

③ Rear / Rear Back Speaker

④ Headphone band......As a single type headband, the flexible and durable hoop is
equipped inside. The soft foam cushion offers extremely comfortable wearing to users.
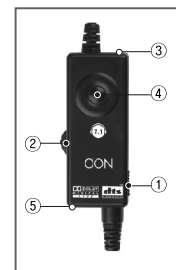
⑤ Headphone ear cushion..... Thin and soft material made ear cushion is designed to cover
up user's ear entirely to prevent fatigue from the pressure of headphone.

AON 7.1ch USB Headphone : Speaker Units

Front Left / Center

Front Right / Center

Rear Left /
Rear Left Back

Rear Right /
Rear Right Back

Left

Subwoofer

Right

AON 7.1ch USB Control Unit

① **"PWR" switch** : Turns the power ON/OFF.

② **"VOL/MUTE" switch** : Adjusts the volume level and mute

③ **"MIC"** : Provides voice features such as recording,
voice-chatting etc with related s/w program.
By right click on 7.1, you can record your voice with
"Sound Recorder".

④ **LED Display** : Displays the status of system
 • **ON** : when USB cable connected and "PWR" switch is ON.
 • **Blinking** : when the contents are playing, pause or mute.
 • **OFF** : when USB cable disconnected or "PWR" switch is OFF.

⑤ **"SPDIF / Stereo OUT"** dual terminal
 • **SPDIF OUT** : With the state-of-the-art Dolby Digital Live™ and DTS Interactive™, users
can connect their already-equipped home theater speakers system (decoder, AV receiver
etc.) by connecting optical cable and enjoy the contents from the desktop and laptop.
Even ordinary 2ch stereo contents can be converted to spatial 5.1ch or 7.1ch optionally
with DTS NEO : PC™ and played at user's home theater speaker system in real-time.
 • **Stereo out** : Any headphone and earphone with one stereo jack can be accommodated
together with AON headphone. So, two users can enjoy the same contents simultaneously.

Dolby Digital Live™, DTS Interactive™, DTS NEO:PC™

① **Dolby Digital Live™** : A technology that can encode all the digital audio contents
on desktop and laptop into Dolby Digital stream in real-time. It can then be sent
to external decoder for playback. All paths are digital and wiring is simple.

② **DTS Interactive™** : A real-time encoder which takes any LPMC (2 channel or
more) and encodes it into DTS bit stream. Just plugging a single cable connection
to your DTS enabled surround sound system such as, powered PC speaker, an A/V
receiver or any other DTS compatible surround sound system.

③ **DTS NEO:PC™** : An audio up-mix matrix technology that turns any 2 channel
audio into 7.1 surrounds sound. It can turn your stereo audio (WMA, MP3, CD and
more) into a convincing multi-channel audio experience.

AON™ **7.1ch USB Home Theater Headphone System**

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● System Requirement

- USB interface: USB 1.1 or 2.0
- OS : Win2000 and WinXP
- CPU : Intel Pentium Ⅲ or AMD K6 500 CPU above
- RAM : At least 128MB RAM (Win2000, WinXP)
- HDD : At least 50MB Hard disk space
- Support direct sound 3D / CD-ROM or DVD ROM
- For better sound quality under Microsoft Windows System, please adjust your system's H/W acceleration and Sample rate conversion quality to **Full and Best** at "Control Panel" → "Advanced Audio Properties" → "Performance".

● Connecting AON 7.1ch Headphone

Desktop, Laptop, Media Center   USB Control Unit   **7.1ch Headphone**
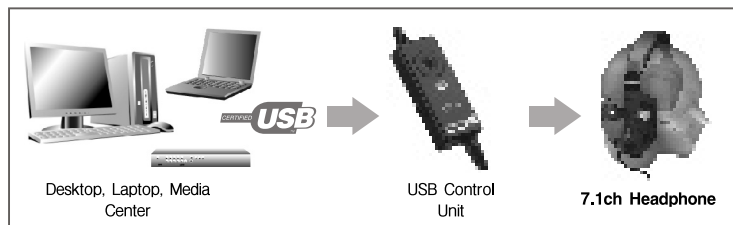
● Driver Installation

① Connect AON 7.1ch Headphone USB cable to USB terminal of your device. (Please use the same USB terminal whenever using AON 7.1ch USB headphone.)

② Insert the driver installation CD into CD-ROM or DVD ROM then installation process starts automatically. If not, please double-click on "Setup.exe" at CD folder.

③ Click "next" or proper button at each process of installation. (Please click "Next" with tick-mark on both "Install Driver" and "Install Demo Program".)

④ Select appropriate path for installation then "Install Driver" starts.

⑤ When installation is completed, restart your system.

⑥ After restart your system, there is a new icon, ⊙ , at the bottom right corner of your screen. You can see the "AON 7.1ch USB Sound" with click this icon.

● How to use AON 7.1ch USB Sound

1) Click ⊙ at the bottom right corner of your screen or choose "open" with right click for selecting the appropriate configuration of sound and effect.
2) Please refer to the following descriptions for each menu and feature.

Main Setting

① **Analog Output** : The default setting is ▢ 6ch (5.1ch) for Analog Output. This also provides you with diverse setting values, such as ▢ ▢ ▢ ▢ , but 6ch or 8ch is highly recommended for rich and spatial sound like home theater with real sound effect from headphone. (In case of 2ch contents, you can enjoy excellent multi-channel sound effect by selecting 4/6/8ch mode and DTS NEO:PC™). By click on ◁ , you can use various functions of "Swap center/bass output", "Swap side/back surround output" and "Bass Enhancement".

② **S/PDIF Output** : By click on ⊖ , you can take any contents to transfer 5.1ch or 7.1ch to your already-built external devices by single cable, through Dolby and DTS technology.
- Using single optical cable, you can connect your decoder, AV receiver and decoder built-in speaker with "SPDIF OUT" at USB control unit. This provides with real-time multi-channel conversion of not only multi-channel contents from your desktop or laptop but any stereo 2ch contents.
- For Dolby, select "Dolby Digital Live" and "DTS Interactive" for DTS Technology. Please click "DTS NEO:PC" when you want to convert 2ch contents to 5.1ch or 7.1ch at your home theater speakers.