http://www.topsony.com/forum/showthread.php/20119-AudioPhile-Premium-XT-WBXML-Acoustics-for-DB3210-DB3150-phones

10-10-2009 #7
Hiron

(v6.1) AudioPhile Premium HD WBXML Acoustics for A2/UIQ3 Phones

Finally, beta testing phase is finished. Completely rewritten AudioPhile Premium HD Acoustics is released for all A2 (DB3150 and DB3210) and UIQ3 Phones.

It was based on original wbxml from W995 R1FA035. **It only has an effects for hearing a music with portable wired handsfree and line out through fastport and 3.5mm jack in Media Player / Walkman Menu.**

Notes before read further:
- Example of phones that has Clear Audio Experience: Satio, Aino, W995, W715, W705, W902 and W980
- Example of first generation A2 Phones: K850, G502, V640, W910, W890, Z770, K630 and K660
- Example of UIQ3 phones: P1, P990, P900, M600 W950 and W960
- MegaBass and Bass equalizer is not exist in a phones that has Clear Audio Experience

This acoustics is compatible for ALL A2 DB3210, DB3150 and UIQ3 phones which is using wbxml or aat accoustics. Other phones that utilize ZAPF and APF is not supported.

Attention: First generation A2 Phones doesn't parse *.csv in tpa/preset/acoustics folder. You may give it a try by uploading only wbxml and customize_upgrade.xml files with a consequences of sacrificed / disappointing audio quality :)

Main Features:
- Every volume step had been modified to show consistent performance. The bass is still maintained without distortion at max volume.
- Increased Dynamic Range, depends on acoustic selection, your headphones and audio files quality. Hear the sound as it is, like hearing with your desktop computer.
- 3D Reverberation Surround Effects with minimal impact on lower frequencies. For more effects, it is recommended to turn on Stereo Widening.
- Input signal has been enhanced as high as possible to maintain overall music instruments audibility (it doesn't mean volume).
- Enhanced filtering for all frequencies range to maintains overall music instruments attacks.
- Enjoy enhanced Clear Bass in a phone without Clear Audio Experience.

Changelog:
6.1 (10-09-2009)
- Bug fixed: I made a mistake when rewriting a wbxml that makes the sound comes too powerful.. Now it had been normalized
- Csv is one again

6.0 (09-09-2009)
- Csv is changed
- Wbxml name is changed: Crystallity Booster and All Round Booster. The goal of this v6.0 is to minimizing sound noise as much as possible while still providing detailed and clean sound with amazing soundstaging...
Recommended to try Crystallity Booster at first. Colder csv is provided for In-Ear headphone that has a muffled sound such as HPM-64 and HPM-77... Warmer csv is here for higher-quality headphone, but you may figure it yourself which is better :)

5.6 (08-09-2009)
- Someone says that he prefer colder version rather than warmer version. So I make two selection of csv. Only for csv user

5.5 (07-09-2009)
- Little changes in wbxml and equalizing changes in csv. More warmer and natural sound

5.3 (06-09-2009)
- ClosedAir wbxml is modified. Better and clearer sound compared with ClosedAir v5.0!
- csv gets even much more louder than v5.0. It was about 15dB louder! For W995 user, the volume only differs in fastport, not 3.5mm jack... Try fastport, it's much more louder! But it's a bad news for a phone without csv...
- Fixed Bug: MH-700, a 3.5mm jack headset that has line out and line in (mic) had right channel duplicated from left, which make it sounds mono. My mistake in wbxml (HK BEARNADD). Fixed and thanks to idumbakumar for reporting
- Reconsolidating some folder

5.0 (05-09-2009)
- Adding folder "3. optional - choose only one\1. vkp patching to remove (+8) and (-8) manual eq limitation" Read further for more details.
- Only for csv users. Csv is changed. Better clarity and much louder volume. By using this csv, it can be claimed that this is one of the loudest acoustics in A2 wbxml modding world *

* Power output from phone circuit has been set as high as possible while still keeping a sounds without distortion at max bar with MegaBass eq.
Original csv only render MegaBass useless at max bar (the preset goes down from 14 0 0 0 3 to 6 0 0 0 3), which is not the case with this csv.
If the sound is distorted, then it is your hardware (headphone) limitation. Buy high quality headphone such as Audio Technica ATH-AD2000 or Grado GS1000i. Each of them are worth about a thousand dollar :D

4.0 (04-09-2009)
- Adding line_out support (such as MMC-60 accessories)
- 3. Bass is rewritten to 1. ClosedAir. Better soundstaging while still keeping its aggressive style. Best for rock, pop or other Bassy music
- 2. Loud is rewritten to 2. OpenAir. Better soundstaging and louder while still keeping its natural style. Best for jazz, live or other instrumental music
- 1. Clear is merged into 2. OpenAir
- Now all the wbxml doesn't depend on the csv. You may use original csv to get much louder volume but with little sacrifice in quality

- Little changes in csv and customize_upgrade.xml

3.0 (03-09-2009)
- 1. Flat is rewritten to 2. Loud. Much clearer with best loudness. May sound different in 3.5mm jack
- 2. Clear Crytallizer is rewritten to 1. Clear. Adding a little bass. Best clarity
- 3. Dynamite Crystallizer is rewritten to 3. Bass. Reduced distortion. Best bass and good for rock and house music

2.0 (02-09-2009)
- Bomb Crystallizer removed
- Dynamite Crystallizer added. Loud (compared to Flat and Clear). Better midrange, enhanced bass and aggressive style with little distortion. May sound different in 3.5mm jack. Must try!

1.8 (01-09-2009)
- Warmer sound and Clear Bass experience with increased clarity
- Now the acoustic becomes more compatible with A2 first generation phones
- Unneeded csv and wbxml was no longer available
- Sound frequency was equalized from wbxml itself so it's not necessary again to upload customize_upgrade.xml. Try MegaBass equalizer

1.7 (31-08-2009)
- csv is 1dB louder and dynamic range increased
- **Added support for UIQ3 phones**

1.6 (30-08-2009)
- Renaming Crystallizer Boom to Clear Crystallizer
- Adding Bomb Crystallizer wbxml with maintained bass, attack and treble with aggressive style.

1.5 (29-08-2009)
- Adding Crystallizer Boom wbxml with maintained attack, treble and clarity.

1.1 (28-08-2009)
- Soft style csv is removed because it was not popular
- Louder csv added because there are many demands

1.0 (27-08-2009):
- Eliminating DRC Off and Agressive acoustic
- Adding two csv version: Hard and Soft style.
- More controlled and balanced bass.
- Rewriting the sound distribution algorithm. The sound channel is inverted
- More 3D reverberation
- Crystalized treble

0.9.3 Beta (26-08-2009):
- Added support for 3.5mm jack in W995
- Lowering the highs a little bit in DRC OFF

0.9.1 Beta (25-08-2009):
- Released to public for the first time

To summarize the main features above: The main goal of this acoustic is to provides like.no.other unforgettable listening experience while still keeping the volume as low as possible to prevent ears damage and fatigue.
If you compare this acoustic with original W995, you will perceive the music as if it was played louder, although in fact the volume (sound pressure level) is still the same!

All features above can be easily noticed when hearing high quality audio files with Hi-Fi Audiophile Headphones. Mp3 audio files and standard quality headphones will not unleash full potential of this acoustics.

To install the acoustics:
- Extract the file
- Pay an attention to "README - English.txt" carefully. If you already read this post carefully, move to next step
- Open A2Uploader. Press "FileSystem tool" button. Turn off your phone, hold C while connecting your phone with a data cable
- Upload csv files in "csv to tpa-preset-acoustic, not for A2v1 or UIQ" folder to tpa/preset/acoustic. **Do not do this if your phone is first generation A2 Phones or UIQ3**
- There are two types of wbxml, so just choose only one. Upload wbxml files in "wbxml to ifs-settings-acoustic" folder to ifs/settings/acoustic. **If your phone is not W995, do not upload phf_jack_play.wbxml**
- It's not necessary to upload customize_upgrade.xml in "3. optional - choose only one\2. customize_upgrade_xml to tpa-preset-custom, not for Clear Audio or UIQ" folder to tpa/preset/custom. Read further for more information. **If your phone has Clear Audio Experience or it was UIQ3, do not do this**
- Turn on the phone. It is advised to use manual equalizer or MegaBass. You can customize manual equalizer as you wish.

Attention:
- DO NOT PLUG THE HEADPHONES FASTPORT WHILE PLAYING A MUSIC THROUGH LOUDSPEAKER. Stop the music first, then plug the fastport, or you may get shocked because of that.

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Q: I have UIQ3 phones. How to use this acoustic?
A: Don't upload csv and customize_upgrade.xml. Just open "wbxml to ifs-settings-acoustic" folder, choose your acoustic, and rename *.wbxml to *.aat. Upload it to your phones.
It's not necessary to upload phf_3_play.aat and phf_jack_play.aat

Q: What is "3. optional - choose only one\1. vkp patching to remove (+8) and (-8) manual eq limitation" folder?
A: By applying these patch, you will theoritically more extreme manual equalizer. +-8 bar limitation becomes +-14 bar

Q: How to apply that?
A: Read || here || for more information

Q: I didn't see my phones mentioned in this folder. Where is mine?
A: In this folder, these are some of the patch that I can find by googling. You can port the patch to your phone.

Q: How to port the patch?
A: Read || here || for more information

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Notes about customize_upgrade.xml in "3. optional - choose only one\2. customize_upgrade_xml to tpa-preset-custom, not for Clear Audio or UIQ" folder which is uploaded tpa/preset/custom

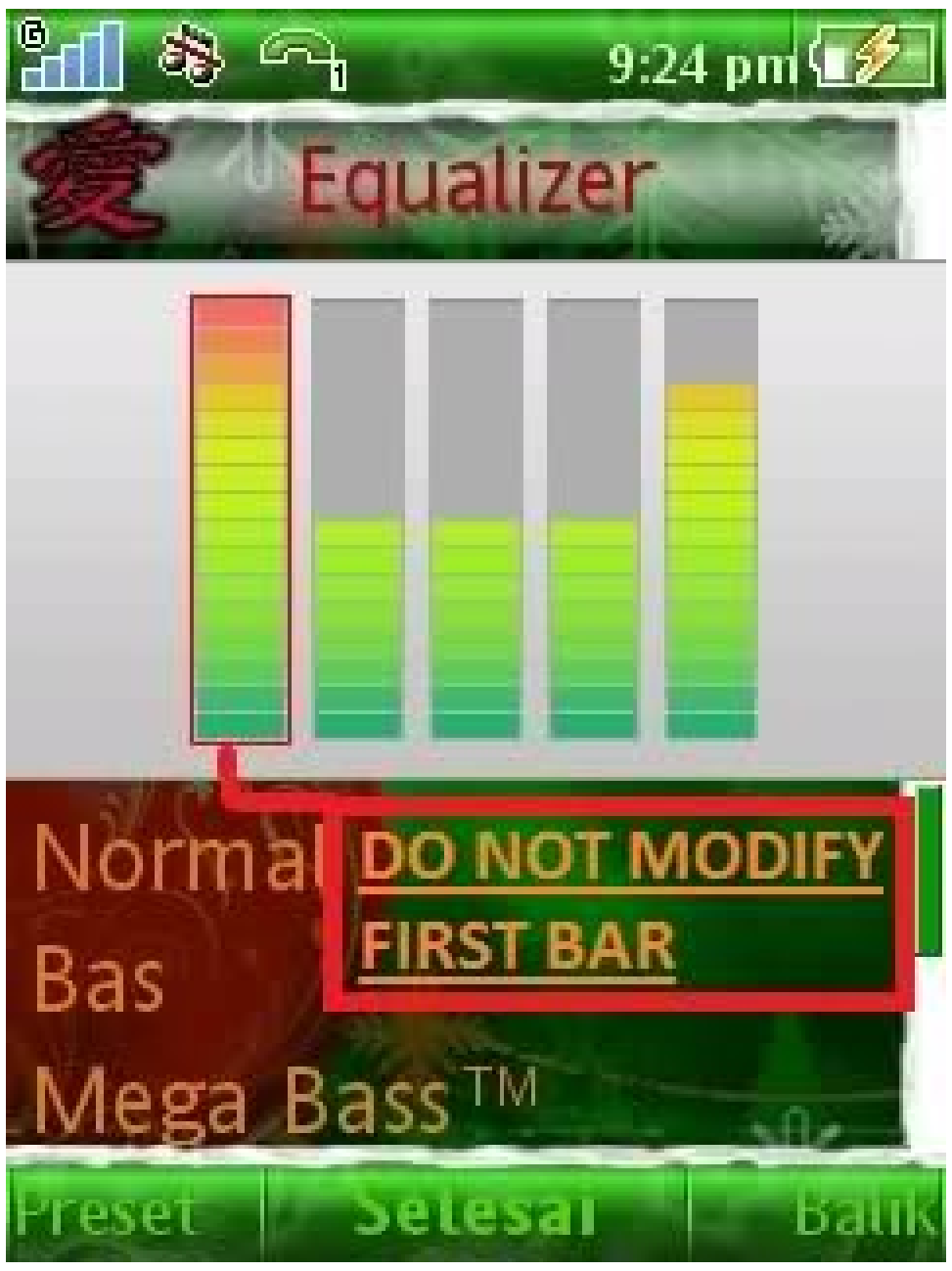
Normally if you use manual equalizer, it will not allow you to modify it above +/-8bar (8dB).
By using customize_upgrade.xml that is provided, your manual equalizer will set to| +14 | 0 | 0 | 0 | 5 |. MegaBass value is | +14 | 0 | 0 | 0 | 3 |, and now you can customize it furthermore.

Q: Do I really need to upload it?
A: No. If you don't upload it, you will not get this "extreme" manual equalizer. That's simple.

You may edit customize_upgrade.xml yourself to fit your own needs. Open it with notepad and read the help inside it.
Modify it to a value that is more than +/-14dB will not work. For example, 17dB value will be ignored. +/-14dB would be set instead.

Q: I want to edit more than 14dB. I want | +25 | 0 | 0 | 0 | 5 | !
A: PM me for special version of *.csv. Dynamic range may be reduced :)

Q: I want to tweak manual equalizer a little bit. Can I do this?
A: Sure. But remember that the first bar has been modified to amplify 63Hz frequencies to +14dB, a value that is normally not allowed in manual equalizer which is limited to +/- 8dB.
Because of this reason, Please DO NOT make any change in the first bar of manual equalizer. Look at pictures below:



It was actually | +14 | 0 | 0 | 0 | 5 | instead of | +8 | 0 | 0 | 0 | 5 |

If you lower it, you can't raise it above 8dB again. If you accidentaly lowered it, just reupload customize_upgrade.xml

Q: Too much bass in manual equalizer. How to solve this?
A: Okay, you may modify it. Lower the first bar until it suits your needs. Or you may edit customize_upgrade.xml yourself to fit your own needs.

Q: Can I use any preset other than manual equalizer?
A: You may use your own default preset such as Normal or MegaBass. No stricting rules for these default preset.

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Testing and Development Environment:
- Windows 7 64-bit
- Latest WinHex
- Latest A2Uploader
- T700 R3EA037, W995 R1FA035, K850 R1FA035, K660 R1FA035

And last but not least, I would like to says thank you to:
- The God, all of you know the reasons :p
- My Mom and Dad who gives me the facility (computer, headphones, phones)
- Luhccas Cesky, for teaching me about how to modify csv files
- number1, for his stunning amplifier algorithm
- witchking, for his idea to modify manual equalizer via customize_upgrade.xml
- thelaser, for his awesome A2Uploader
- Sony Ericsson and Hewlett-Packard (phones and my computer)
- Bill Gates from Microsoft Corporation for providing the OS as a development environment
- F.J Wechselberger for providing MyPhoneExplorer to capture a screenshots
- Alexander Roshal for providing useful WinRaR program

- and many other person that is impossible to mention it all.

Terms of Use: The creator of this modded acoustics is not responsible for damages or any loss that could happen with your computer, phones, headphones, ears, or any substance that has a relationship with the usage of this acoustics.
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Comment? Bugs report? Features suggestion for next release? Feel free to reply in this topic :)

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