

MASTER FILE DISCS

"HIGH RESOLUTION FILE DISC" CONTAINS 24BIT/192KHZ & 24BIT/96KHZ MASTER TAPE WAV FILES FOR COMPUTER & HARDDISK FILE PLAYBACK. IT IS NOT PLAYABLE ON CD PLAYER, DVD PLAYER AND SACD PLAYER.

"DWSQC DISC" IS BASED ON CD-R SPEC. (ORANGE BOOK). IT IS COMPATIBLE WITH ALL PLAYERS THAT SUPPORT CD-R PLAYBACK.



Appendix for High Resolution Audio and Better QC system



DVD ROM
24BIT/192KHZ
24BIT/96KHZ



HIGHEST QUALITY
LOW SPEED CD CREATOR
BEST MATERIAL

NEW AUDIO ERA

High Resolution Digital Audio Format

Introduction

Digital audio carries binary data e.g. "01100100". The digital data can be clone perfectly in digital copy. This is the no.1 rule in digital domain theory. When you copy a photo from memory stick to hardisk, they are identical and exactly the same. In professional audio world, we called this "Bit Transparent".

First digital audio QC procedure - "Bit Transparent"

As a mastering engineer, my first QC approach is test if the final CD product contains 100% identical data compare to the CD Master. It was shocked that there are manufacturing plants cannot meet this minimum baseline. Legedary mastering engineer Bob Ludwig said "Never turn your back of digital". We reject those plants which cannot supply data identical product.

Identical data but different sounding

Within audiophile community, it's a general accepted concept that Compact Disc, which made by different manufacturing plants produce different sounding. This is a confusion against the law of physics. How can the same digital audio data CD produces sonic differences? These researches were rooted around mid 90's. Julain Dunn wrote a AES paper in 101 AES Convention. (AES Preprint number: 4399 - October 1996). We now understand the timing error, another term "Jitter" is the key. "Jitter" - the timing error affects real time playback.

In the quest of better audio quality, there are special designed replication plants trying to maintain high standard CD replication. This area is like a myth to the general public, especially to those computer programmers that know so well about the checksum of digital data.

Hardware playback solution journey:

In high end audio history, hardware manufacturers developed separated CD Transport & Digital to Analogue Converter (DAC) to avoid the CD mechanism (movement parts & servo) draws the same power sharing with the DAC. Sony invented the SDIF-2 interface with 3 BNC connections that one dedicated cable for wordclock connection. Recent years, it is more popular that a master workclock links multi-boxes for higher precision in timing. More sophisticate PLLs (phase lock loop) are designed to remove timing error, such as asynchronous sample rate conversion, DSP solution and RAM buffering.

Please register your CD serial number for future references:

www.designwsound.com/dwsblog/



DWSQC SYSTEM

A better kind of QC procedure

“DWSQC DISC” - Better Quality Control in Final Products

With our production, we usually create 2 different master tape formats. High resolution masters like 24bit (176.4kHz/88.2kHz) or DSDIFF (DSD based), and standard resolution 16bit/44.1kHz CD Master. The rapid growth in HTPC and audio server in recent years, produces more and better quality products to support high-res file playback. Weiss Minerva/DAC2 is the first firewire DAC playback full 24bit/192kHz non-compressed music content directly from computer. Jitter is eliminated by the great dejitter circuit inside the DAC.

In this package, we include a “High Resolution File Disc”. The music data is 100% bit transparent to our master tape in high resolution WAV file format. Audiophile is now capable to listen the exact master source at home. Both 176.4kHz & 88.2kHz files are included, to provide maximum compatibility without scarify using inferior sample rate converters on computer, soundcard and other upsampling devices.

For the majority CD realtime playback, the entirely new “DWSQC DISC” is introduced. “DWSQC DISC” takes a full time engineer to create an in house production. 100% premium made with the best CD-R material and low speed creator. Each final product is inspected by our QC engineer and comes with an unique performance report on BLER (Block Error Rate). The industry BLER standard is < 220 , the “DWSQC” tolerance is extremely tight with < 2 . This QC method was used only on CD Mastering session before. It consumes high cost and long production time, which average 60 mins for a single DWSQC CD, compare to 6 second in replication plant. The benefit however, it is exactly the way we produce our CD masters!

To represent our engineers stand behind all of our products, each package includes a serial number and QC engineer signature. Very limited amount of “DWSQC disc” are created for each title, we recommend “DWSQC disc” customer to register their product. We will provide a membership number for future title pre-order priority, disc replacement and free sample of hi-res mixed tape download from our website before the album releases to public.

We also look forward to work with more records companies to produce their music content with DWSQC procedure. We firmly believe this production method will benefit “audio quality desire” and long lasting high resolution media.

Thank you for supporting our music and sound!
We hope you enjoy it, see you next time

WEISS

Listening to “High Resolution File Disc”

The “High-Resolution File Disc” carries master tape audio quality. User can import the hires files on computer, HTPC, music server and other high end harddisk players such as Linn Klimax DS, Naim Audio HDX for true 24bit/96kHz or 192kHz hires playback.

There are many computer soundcards available in the market, however, most of them are not capable to reproduce the potential of hires audio. Switzerland manufacturer Weiss Engineering, a pioneer in digital audio technologies, has launched products to target in this direction:

Weiss Minerva/DAC2 is a firewire based digital to analogue converter (DAC). Besides supporting usual high end digital connections (AES/EBU, SPDIF and TOSLINK), it equips a firewire connection that directly hook up with computer IEEE1394 on both PC and MAC.

For high end user who may owns very high quality DAC and does not plan to change a new one, Weiss VESTA interface converts the firewire signal back to AES, SPDIF and TOSLINK. The Weiss Professional AF1 provides 8 channels AES outputs.

Weiss Engineering Website: www.weiss.ch
Design w Sound Website: www.designwsound.com

