

Advice to DVD-Audio software and hardware manufacturers

* DVD-Audio has ability to deliver signals containing high frequencies, e.g. up to about 100kHz (when used at the sampling rate of 192kHz). In cases where high frequency signals with very large amplitude like those of a test purpose disc are presented, it may damage reproduction system, which might lead to a claim related to product liability laws for damage to property of a user or any other person. In order to prevent any danger and eventual legal problem, we recommend all manufacturers to consider the following items and take proper measures.

[Recommendation]

1. Recommendation to DVD-Audio software manufacturer.

When content providers publish DVD-Audio discs, which include any special signals such as Test Tones with high frequency and/or large amplitude,

(1) It is recommended to indicate notice on a disc label, album sleeve, booklet or any attachment in order to warn users.

(2) If a disc contains Visual Menu and/or Still pictures related to such special signals, it is preferable to display any notice on the screen in order to warn users.

[Example] When a track or a Group with special signal is selected in Visual Menu page, the player once displays warning message to confirm whether the user is ready to playback the signal. Only in response to the user's agreement by pressing "Yes" button on a screen, the signal is played back.

2. Recommendation to DVD-Audio hardware manufacturer.

(1) It is recommended to indicate clear notice in a users manual or any attached document in order to warn users against any possible risk.

(2) According to hardware manufacturer's decision, DVD-A players and/or amplifiers may be equipped with any protection device, e.g. a low pass filter, to protect loudspeakers and other reproduction equipment from high frequency signals with large amplitude.

[Example]: The player has a low pass filter, which reduces the energy at very high frequencies. (The default set-up at factory shipment is ON (LPF activated), but it can be inactivated by user's switch operation after purchase.)