

# CPARIS Web Site

## Red Book Standard PMCD format

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### **Bit depth**

16 bits.

### **Sample rate**

44.1 kilohertz.

### **Duration of a title**

4 seconds minimum including a 2-second pause at the start.

### **Duration of a compact disc**

79.8 minutes maximum.

### **Number of titles on a compact disc**

99 maximum.

### **Number of index points within a title**

99 maximum.

### **Pre-emphasis**

If pre-emphasis is selected when a disc is mastered, a CD player will apply a high-cut filter to restore the frequency response to linear and improve the signal to noise ratio. However, playing back such CDs on computers will produce distortion as computers do not account for pre-emphasised discs.

### **Pre-gap**

2 seconds. This pause precedes the first title (the first title still starts at 0:00:000).

### **Serial Copy Management System (SCMS)**

This system sets a flag (2 bits) on the first-generation copies made from a source. There are three states: 00 (copy allowed), 10 (copy once) and 11 (copy prohibited). If the source is 00 and copies are made from it, the copies will be 00 as well, allowing further copies to be made from the copies. If the source is 10 and copies are made from it, the copies will be 11, preventing further copies to be made from the copies.