White Paper
Blu-ray Disc™
Rewritable Format

Audio Visual Application

Format Specifications

for BD-RE Version 3.0

July 2010

TRADEMARK

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1. General

This document describes the overview of "System Description Blu-ray Disc Rewritable Format Part3: Audio Visual Basic Specifications Version 3.0" (hereafter BD-RE Part3 V3.0) by referring to "System Description Blu-ray Disc Read-Only Format Part3: Audio Visual Basic Specifications" (hereafter BD-ROM Part3).

2. Basic Configuration

BD-RE Part3 V3.0 has been developed to enable recording and playback of BDMV contents on BD-RE and BD-R media. Following figure shows the relationship between BD-RE Part3 V3.0 and BD-ROM Part3. BD-RE Part3 V3.0 is named "BDMV Recording specification" and it contains a subset named "Realtime Recording and Editing Format (RREF)".

PG: Presentation Graphics stream (for bitmap subtitle)
IG: Interactive Graphics stream (for navigation command)
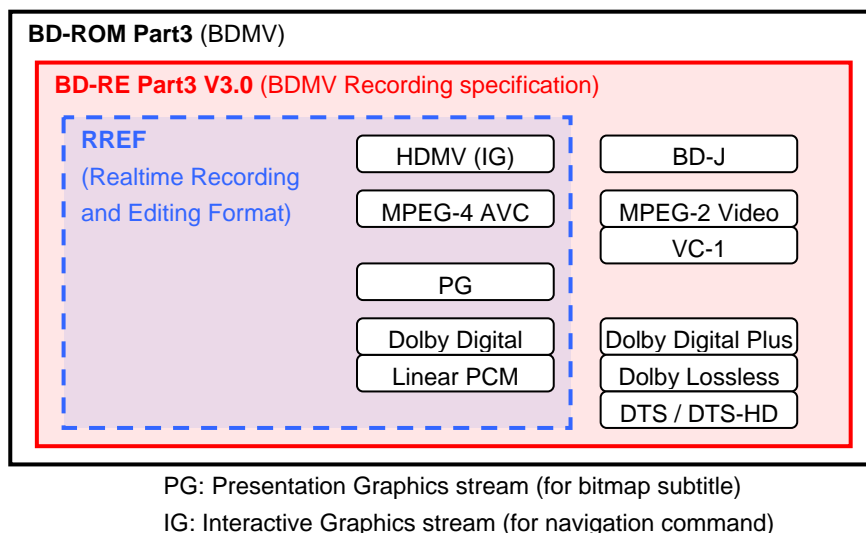
Figure 2-1 – Relationship between BD-RE Part3 V3.0 and BD-ROM Part3

Note: The overview of BDMV format is described in White Paper of BD-ROM Part3.

2.1. BDMV Recording specification

BDMV Recording specification is oriented to personal PC-based BDMV authoring. BDMV Recording specification allows both HDMV and BD-J interactivity and all audio visual streams used in BD-ROM Part3.

2.2. Realtime Recording and Editing Format (RREF)

The Realtime Recording and Editing Format (RREF) is a subset of BDMV Recording specification and it is designed for realtime recording and editing applications implemented by products such as video recorders or video cameras. RREF provides a framework for easy maintenance of database updates when adding, editing or deleting recordings.