ISO/IEC 18630:2023-11 (E)

Information technology - Digitally recorded media for information interchange and storage - Quality discrimination method for optical disks and operating method of storage systems for long-term data preservation

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **2**

4 Quality of optical disk ... **4**
4.1 Types and quality indicators of optical disk (CD, DVD and BD) ... 4
4.2 Lifetime estimation of optical disks ... 4

5 Recordable optical disk and drive used for long-term data preservation ... **5**
5.1 General ... 5
5.2 Recordable optical disk used for long-term data preservation ... 5
5.3 Drive used for long-term data preservation ... 5
5.4 Combination of recordable optical disk and drive ... 5

6 Quality discrimination method for recordable optical disk ... **5**
6.1 General ... 5
6.2 Test method ... 5
6.2.1 Preparation for test ... 5
6.2.2 Test parameters ... 5
6.2.3 Recording method of optical disk for test ... 6
6.2.4 Playback evaluation drive ... 6
6.3 Quality classification by data error testing ... 6

7 Quality test of recordable optical disk and operation of long-term storage systems ... **7**
7.1 General ... 7
7.2 Initial quality test ... 7
7.3 Periodic quality test ... 8

8 Quality test of read-only optical disk and operation of long-term storage systems ... **10**
8.1 General ... 10
8.2 Initial quality test ... 10
8.2.1 Preparation for test ... 10
8.2.2 Test parameters ... 10
8.2.3 Playback evaluation drive ... 10
8.2.4 Test operation ... 10
8.3 Periodic quality test ... 11

9 Handling and storage of optical disks ... **12**

Annex A (normative) **Defect management on BD recordable disk** ... **13**

Bibliography ... **15**