

INTERNATIONAL  
STANDARD

ISO/IEC  
16448

Second edition  
2002-04-15

---

---

**Information technology — 120 mm DVD —  
Read-only disk**

*Technologies de l'information — Disque DVD de diamètre 120 mm —  
Disque DVD à lecture seule*

---

---

Reference number  
ISO/IEC 16448:2002(E)



© ISO/IEC 2002

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO/IEC 2002

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.ch](mailto:copyright@iso.ch)  
Web [www.iso.ch](http://www.iso.ch)

Printed in Switzerland

## Contents

<b>Section 1 - General</b>	<b>1</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Conformance</b>	<b>1</b>
<b>2.1 Optical Disk</b>	<b>1</b>
<b>2.2 Generating system</b>	<b>1</b>
<b>2.3 Receiving system</b>	<b>1</b>
<b>3 Normative reference</b>	<b>1</b>
<b>4 Terms and definitions</b>	<b>1</b>
<b>4.1 Adhesive layer</b>	<b>2</b>
<b>4.2 Channel bit</b>	<b>2</b>
<b>4.3 Clamping Zone</b>	<b>2</b>
<b>4.4 Digital Sum Value (DSV)</b>	<b>2</b>
<b>4.5 Disk Reference Plane</b>	<b>2</b>
<b>4.6 Dual Layer disk</b>	<b>2</b>
<b>4.7 Dummy substrate</b>	<b>2</b>
<b>4.8 Entrance surface</b>	<b>2</b>
<b>4.9 Optical disk</b>	<b>2</b>
<b>4.10 Physical sector number</b>	<b>2</b>
<b>4.11 Read-only disk</b>	<b>2</b>
<b>4.12 Recorded layer</b>	<b>2</b>
<b>4.13 Reed-Solomon code</b>	<b>2</b>
<b>4.14 Reserved field</b>	<b>2</b>
<b>4.15 Sector</b>	<b>2</b>
<b>4.16 Single Layer disk</b>	<b>2</b>
<b>4.17 Spacer</b>	<b>2</b>
<b>4.18 Substrate</b>	<b>2</b>
<b>4.19 Track</b>	<b>3</b>
<b>4.20 Track pitch</b>	<b>3</b>
<b>4.21 Zone</b>	<b>3</b>
<b>5 Conventions and notations</b>	<b>3</b>
<b>5.1 Representation of numbers</b>	<b>3</b>
<b>5.2 Names</b>	<b>3</b>
<b>6 List of acronyms</b>	<b>3</b>
<b>7 General description of the disk</b>	<b>4</b>
<b>8 General requirements</b>	<b>5</b>
<b>8.1 Environments</b>	<b>5</b>
<b>8.1.1 Test environment</b>	<b>5</b>
<b>8.1.2 Operating environment</b>	<b>6</b>
<b>8.1.3 Storage environment</b>	<b>6</b>
<b>8.1.4 Transportation</b>	<b>6</b>
<b>8.2 Safety requirements</b>	<b>6</b>
<b>8.3 Flammability</b>	<b>6</b>
<b>9 Reference measurement devices</b>	<b>6</b>
<b>9.1 Pick Up Head (PUH)</b>	<b>6</b>
<b>9.2 Measurement conditions</b>	<b>7</b>
<b>9.3 Normalized servo transfer function</b>	<b>8</b>