
**Information technology — Digitally
recorded media for information
interchange and storage — Information
Versatile Disk for Removable usage
(iVDR) cartridge**

*Technologies de l'information — Supports enregistrés numériquement
pour échange et stockage d'information — Disque versatile
d'information pour cartouche d'emploi amovible (iVDR)*

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.

**COPYRIGHT PROTECTED DOCUMENT**

© ISO/IEC 2009

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.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Conventions and notations	3
4.1 Representation of numbers	3
4.2 Names	3
5 Acronyms	3
6 Environment and safety	3
6.1 Testing environment	3
6.2 Operating environment	4
6.3 Storage environment	4
6.4 Safety	4
6.5 Flammability	5
6.6 Transportation	5
7 Dimensional, mechanical, and physical characteristics of the iVDR cartridge	5
7.1 General description of the iVDR cartridge	5
7.2 Outer dimensions	6
7.3 Mass	6
7.4 Detailed mechanical specifications	7
8 iVDR cartridge plug connector description	15
8.1 General specification	15
8.2 Configuration specification	15
9 Signal assignment for connector	17
Annex A (normative) iVDR cartridge receptacle connector	19
Annex B (normative) Insertion and extraction force of the connector	22
Annex C (informative) Connecting condition of connector	23
Annex D (informative) Contact material and surface plating	25
Annex E (informative) Recommendations for transportation	26
Annex F (informative) Insertion direction mark area and label area	27
Annex G (informative) Example and supplement	28
Bibliography	29

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 29171 was prepared by Technical Committee ISO/TC JTC 1, *Information technology*, Subcommittee SC 23, *Digitally Recorded Media for Information Interchange and Storage*.

Introduction

The original iVDR specification was developed by the “iVDR Consortium”, (<http://www.ivdr.org>).

Hard disk drive technologies can be used in the cartridge. A major use of iVDR cartridges might be storage for digitally recorded audio and video content.

Information technology — Digitally recorded media for information interchange and storage — Information Versatile Disk for Removable usage (iVDR) cartridge

1 Scope

This International Standard specifies the dimensional, mechanical and physical characteristics of an information Versatile Disk for Removable usage (iVDR) cartridge to enable mechanical interchangeability between data processing systems. Hard disk drive technologies can be used in the cartridge.

This International Standard specifies the environment in which iVDR cartridges are to be operated and stored, and specifies the dimensions and pin assignments of a connector employed by iVDR cartridges to enable data interchange.

Together with ISO/IEC 24739-3 and a standard for volume and file structure, this International Standard enables full data interchange between data processing systems.

Figure 1 shows an external view of an iVDR cartridge.



Figure 1 — External view of iVDR cartridge

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60950-1, *Information technology equipment — Safety — Part 1: General requirements*

ISO/IEC 24739-3, *Information technology — AT Attachment with Packet Interface - 7 — Part 3: Serial Transport Protocols and Physical Interconnect (ATA/ATAPI-7 V3)*¹⁾

1) Under preparation.