

Australian Standard[®]

**Information technology—Automatic
identification and data capture (AIDC)
techniques—Harmonized vocabulary**

Part 2: Optically readable media (ORM)



This Australian Standard® was prepared by Committee IT-034, Automatic Identification and Data Capture Techniques. It was approved on behalf of the Council of Standards Australia on 15 November 2006.

This Standard was published on 27 December 2006.

The following are represented on Committee IT-034:

- Australian Custom Service
 - Australian Data Capture Association
 - Australian Electrical and Electronic Manufacturers Association
 - Australian Retailers Association
 - Australian Veterinary Association
 - Department of Communications, Information Technology and the Arts
 - Department of Defence
 - Department of Primary Industries, Vic
 - RFID Association of Australia
 - The University of Adelaide
 - GS1
-

This Standard was issued in draft form for comment as DR 06524.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting **www.standards.org.au**

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at **mail@standards.org.au**, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard[®]

**Information technology—Automatic
identification and data capture (AIDC)
techniques—Harmonized vocabulary**

Part 2: Optically readable media (ORM)

First published as AS ISO/IEC 19762.2—2006.

COPYRIGHT

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 7941 7

PREFACE

This Standard was prepared by the Standards Australia Committee IT-034, Automatic Identification and Data Capture Techniques.

The objective of this Standard is to provide terms and definitions unique to optically readable media (ORM) in the field of automatic identification and data capture techniques.

This Standard is identical with, and has been reproduced from ISO/IEC 19762-2:2005, *Information technology—Automatic identification and data capture (AIDC) techniques—Harmonized vocabulary—Part 2: Optically readable media (ORM)*.

As this Standard is reproduced from an international standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this part of ISO/IEC 19762’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

CONTENTS

	<i>Page</i>
Scope.....	1
Classification of entries.....	1
Terms and definitions.....	1
Abbreviated terms.....	19
Index	20

INTRODUCTION

ISO/IEC 19762 is intended to facilitate international communication in information technology, specifically in the area of automatic identification and data capture (AIDC) techniques. It provides a listing of terms and definitions used across multiple AIDC techniques.

Abbreviations used within each part of ISO/IEC 19762 and an index of all definitions used within each part of ISO/IEC 19762 are found at the end of each document.

AUSTRALIAN STANDARD

Information technology — Automatic identification and data capture (AIDC) techniques — Harmonized vocabulary —

Part 2: Optically readable media (ORM)

Scope

This part of ISO/IEC 19762 provides terms and definitions unique to optically readable media (ORM) in the field of automatic identification and data capture techniques. This glossary of terms enables the communication between non-specialist users and specialists in optically readable media through a common understanding of basic and advanced concepts.

Classification of entries

The numbering system employed within ISO 19762 is in the format nn.nn.nnn, in which the first two numbers (nn.nn.nnn) represent the “Top Level” reflecting whether the term is related to 01 = Common to All AIDC Techniques, 02 = Common to All Optically Readable Media, 03 = Linear Bar Code Symbols, 04 = Two-dimensional Symbols, and 05 = Radio Frequency Identification. The second two numbers (nn.nn.nnn) represent the “Mid Level” reflecting whether the term is related to 01 = Basic Concepts/Data, 02 = Technical Features 03 Symbolology, 04 = Hardware, and 05 = Applications. The third two or three numbers (nn.nn.nnn) represent the “Fine” reflecting a sequence of terms.

The numbering in this part of ISO/IEC 19762 employs “Top Level” numbers (nn.nn.nnn) of 02, 03 and 04.

Terms and definitions

02.01.01

pixel

picture element

smallest element of a display surface that can be independently assigned attributes such as color and intensity

02.01.02

element

⟨symbol character or symbol⟩ single **bar** or space in a bar code **symbol** or a polygonal or circular single cell in a matrix symbol, which according to symbolology rules form a symbol **character**

NOTE The width of individual elements may be expressed in **modules**, or in multiples of the **X dimension**.

02.01.03

resolution(1)

smallest distance between indications of a measure's attribute that can be meaningfully distinguished

NOTE The attribute may be amplitude, color, distance, etc.