
**Prikazalniški elementi s tekočimi kristali – 2-2. del: Moduli z matričnim
barvnim LCD – Okvirna podrobna specifikacija (IEC 61747-2-2:2004)**

Liquid crystal display devices – Part 2-2: Matrix colour LCD modules – Blank detail
specification (IEC 61747-2-2:2004)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 61747-2-2:2005](https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-0d5fbd98e1c8/sist-en-61747-2-2-2005)

[https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-
0d5fbd98e1c8/sist-en-61747-2-2-2005](https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-0d5fbd98e1c8/sist-en-61747-2-2-2005)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61747-2-2:2005

<https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-0d5fbd98e1c8/sist-en-61747-2-2-2005>

EUROPEAN STANDARD

EN 61747-2-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2004

ICS 31.120

English version

Liquid crystal display devices
Part 2-2: Matrix colour LCD modules -
Blank detail specification
(IEC 61747-2-2:2004)

Dispositifs d'affichage à cristaux liquides
Partie 2-2: Modules LCD
matriciels couleur -
Spécification particulière cadre
(CEI 61747-2-2:2004)

Flüssigkristall-Anzeige-Bauelemente
Teil 2-2: Farbige Matrix-Flüssigkristall-
Anzeigemodule (LCD-Module) -
Vordruck für Bauartspezifikation
(IEC 61747-2-2:2004)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 61747-2-2:2005](https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-1434495e1f88/sist-en-61747-2-2-2004)

This European Standard was approved by CENELEC on 2004-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 110/27/FDIS, future edition 1 of IEC 61747-2-2, prepared by IEC TC 110, Flat panel display devices, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61747-2-2 on 2004-10-01.

This European Standard is to be used in conjunction with EN 61747-1:1999, EN 61747-2:1999 and EN 61747-5:1998.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2005-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-10-01

Endorsement notice

The text of the International Standard IEC 61747-2-2:2004 was approved by CENELEC as a European Standard without any modification.

STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61747-2-2:2005
<https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-0d5fbd98e1c8/sist-en-61747-2-2-2005>

NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

61747-2-2

QC 720302

Première édition
First edition
2004-10

Dispositifs d'affichage à cristaux liquides –

Partie 2-2:

**Modules LCD matriciels couleur –
Spécification particulière cadre**

iTeh STANDARD PREVIEW

Liquid crystal display devices –

Part 2-2: [SIST EN 61747-2-2:2005](https://standards.iteh.ai/catalog/standards/sist/38214418-3ff5-4df4-9368-0d51bd98e1c8/sist-en-61747-2-2-2005)

<https://standards.iteh.ai/catalog/standards/sist/38214418-3ff5-4df4-9368-0d51bd98e1c8/sist-en-61747-2-2-2005>
**Matrix colour LCD modules –
Blank detail specification**

© IEC 2004 Droits de reproduction réservés — Copyright - all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

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 the publisher.

International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

L

Pour prix, voir catalogue en vigueur
For price, see current catalogue

CONTENTS

FOREWORD.....	5
INTRODUCTION.....	9
1 Mechanical description.....	11
2 Short description.....	11
3 Categories of assessed quality.....	11
4 Marking.....	11
5 Ordering information.....	13
6 Limiting values (absolute maximum rating system).....	13
7 Operating range and electrical and optical characteristics.....	17
8 Test condition and inspection requirement.....	21
9 Qualification approval test (group D).....	23
10 Additional information.....	23
Figure 1 – Block diagram for explanation of supply voltages.....	15

ITih STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61747-2-2:2005

<https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-0d5fbd98e1c8/sist-en-61747-2-2-2005>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIQUID CRYSTAL DISPLAY DEVICES –**Part 2-2: Matrix colour LCD modules –
Blank detail specification**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61747-2-2 has been prepared by IEC technical committee 110: Flat panel display devices.

The text of this standard is based on the following documents:

FDIS	Report on voting
110/27/FDIS	110/34/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The QC number that appears on the front cover of this publication is the specification number in the IECQ Quality Assessment System for Electronic Components (IECQ).

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

IEC 61747 consists of the following parts, under the general title *Liquid crystal display devices*:

- Part 1: Generic specification;
- Part 2: Liquid crystal display modules – Sectional specification;
- Part 2-1: Passive matrix monochrome LCD modules – Blank detail specification;
- Part 2-2: Matrix colour LCD modules – Blank detail specification;
- Part 3: Sectional specification for liquid crystal display (LCD) cells;
- Part 3-1: Liquid crystal display (LCD) cells – Blank detail specification;
- Part 4: Liquid crystal display modules and cells – Essential ratings and characteristics;
- Part 4-1: Matrix colour LCD modules – Essential rating and characteristics;
- Part 5: Environmental, endurance and mechanical test method;
- Part 6: Measuring methods for liquid crystal modules – Transmissive type.

iTeh STANDARD PREVIEW

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed, [SIST EN 61747-2-2:2005](https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-0d5fbd98e1c8/sist-en-61747-2-2-2005)
- withdrawn, <https://standards.iteh.ai/catalog/standards/sist/382144d8-3ff5-4df4-9368-0d5fbd98e1c8/sist-en-61747-2-2-2005>
- replaced by a revised edition, or
- amended.

LIQUID CRYSTAL DISPLAY DEVICES –

Part 2-2: Matrix colour LCD modules – Blank detail specification

INTRODUCTION

The IEC quality assessment system for electronic components is operated in accordance with the statutes of the IEC and under the authority of the IEC. The object of this system is to define quality assessment procedures in such a manner that electronic components released by one participating country as conforming with the requirements of an applicable specification are equally acceptable in all other participating countries without the need for further testing.

This blank detail specification is one of a series of blank detail specifications for liquid crystal display devices and shall be used with the following IEC publications:

IEC 61747-1:1998, Liquid crystal display devices – Part 1: Generic specification

IEC 61747-2:1998, Liquid crystal display devices – Part 2: Liquid crystal display modules – Sectional specification

IEC 61747-5:1998, Liquid crystal display devices – Part 5: Environmental, endurance and mechanical test methods

Required information

Numbers shown in brackets on this and the following pages correspond to the following items of required information, which shall be entered in the spaces provided.

Identification of the detail specification

- [1] The name of the National Standards Organization under whose authority the detail specification is issued.
- [2] The IECQ number of the detail specification.
- [3] The numbers and issue numbers of the generic and sectional specifications.
- [4] The national number of the detail specification, date of issue and any further information, if required by the national system.

Identification of the device

- [5] Type of device.
- [6] Information on typical construction and applications. If a device is designed to satisfy several applications, this shall be stated here. Characteristics, limits and inspection requirements for these applications shall be met. If a device is electrostatic sensitive, or contains hazardous materials, a caution statement shall be added in the detail specification.
- [7] Outline drawing and/or reference to the relevant document for outlines.
- [8] Category of assessment quality.
- [9] Reference data on the most important properties to permit comparison between types.

NOTE Throughout this standard, the text given in square brackets is intended for guidance to the specification writer and shall not be included in the detail specification.