

INTERNATIONAL STANDARD

Liquid crystal display devices –
Part 3: Liquid crystal display (LCD) cells – Sectional specification



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIQUID CRYSTAL DISPLAY DEVICES –**Part 3: Liquid crystal display (LCD) cells –
Sectional specification**

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International Standard IEC 61747-3 has been prepared by IEC technical committee 110: Electronic display devices.

This International Standard is a sectional specification for liquid crystal display cells. It is be used in conjunction with IEC 61747-1-1:2014.

This third edition cancels and replaces the second edition, published in 2006. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) All the references to IECQ and QC were removed in accordance with ISO/IEC Directives Part 2, 6.7.1 and 6.7.2;

b) Updated normative references.

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

CDV	Report on voting
110/532/CDV	110/616/RVC

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.

A list of all the parts in the IEC 61747 series, under the general title *Liquid crystal display devices*, can be found on the IEC website.

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.

The committee has decided that the contents of this publication will remain unchanged until the stability 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

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- replaced by a revised edition, or
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LIQUID CRYSTAL DISPLAY DEVICES –

Part 3: Liquid crystal display (LCD) cells – Sectional specification

1 Scope

This part of IEC 61747 applies to liquid crystal cells of the segment type monochrome. It gives details of the quality assessment procedures, inspection requirements, screening sequences, sampling requirements and test and measurement procedures required for the assessment of liquid crystal display cells.

Instead of the qualification approval procedure, the capability approval procedure can be applied for all products manufactured in a defined process.

2 Normative references

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

IEC 61747-1-1:2014, *Liquid crystal display devices – Part 1-1: Generic – Generic specification*

IEC 61747-10-1, *Liquid crystal display devices – Part 10-1: Environmental, endurance and mechanical test methods – Mechanical*

IEC 61747-10-2, *Liquid crystal display devices – Part 10-2: Environmental, endurance and mechanical test methods – Environmental and endurance*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

production line

arrangement of process operations in production permitting sequential occurrence at various stages of production

EXAMPLE Examples of processes:

- a) electrode patterning process;
- b) alignment treatment process;
- c) assembly process;
- d) liquid crystal material filling process;
- e) finishing process;
- f) inspection process.

Note 1 to entry: Quality assessment procedures are not included in these phases.