



INTERNATIONAL STANDARD



**Plasma display panels –
Part 2-6: Measuring methods – APL dependent gamma and colour
characteristics**

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International Standard IEC 61988-2-6 has been prepared by IEC technical committee 110: Electronic display devices.

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

FDIS	Report on voting
110/636/FDIS	110/652/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.

A list of all the parts in the IEC 61988 series, under the general title *Plasma display panels*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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PLASMA DISPLAY PANELS –

Part 2-6: Measuring methods – APL dependent gamma and colour characteristics

1 Scope

This part of IEC 61988 defines the measuring methods for gamma and colour gamut characteristics as a function of the APL for a PDP module (plasma display module). Generally, the luminance level of a PDP module is dependent on the APL (average picture level) of input images. Varying the input levels causes a change of the chromaticity of RGB primary colours. This standard also defines the measuring methods of tone characteristics and chromaticity characteristics with varying APLs. This standard is based on the assumption that the inverse-gamma circuit is inside the module.

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 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60107-1, *Methods of measurement on receivers for television broadcast transmissions – Part 1: General considerations – Measurements at radio and video frequencies*

IEC 61966-5, *Multimedia system and equipment – Colour measurement and management – Part 5: Equipment using plasma display panels*

IEC 61988-1, *Plasma display panels – Part 1: Terminology and letter symbols*

IEC 61988-2-1, *Plasma display panels – Part 2-1: Measuring methods – Optical and optoelectrical*

CIE 15:2004, *Colorimetry*

ITU-R Rec. BT.709-5, *Parameter values for the HDTV standards for production and international programme exchange*