



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60107-1:1999

ICS 33.160.20

**METHODS OF MEASUREMENT ON
RECEIVERS FOR TELEVISION BROADCAST
TRANSMISSIONS. PART 1: GENERAL
CONSIDERATIONS MEASUREMENTS AT
RADIO AND VIDEO FREQUENCIES (IEC
60107-1:1997)**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60107-1

May 1997

ICS 33.160.20

Descriptors: Television receivers, electric measurements, display devices, radio frequencies, tests, electrical properties, sensitivity, luminance, chrominance, images, synchronisation, quality

English version

**Methods of measurement on receivers
for television broadcast transmissions
Part 1: General considerations
Measurements at radio and video frequencies
(IEC 60107-1:1997)**

Méthodes de mesures applicables
aux récepteurs de télévision
Partie 1: Considérations générales
Mesures aux domaines radiofréquences
et vidéofréquences
(CEI 60107-1:1997)

Meßverfahren für Empfänger von
Fernseh-Rundfunksendungen
Teil 1: Allgemeine Vorschriften,
Messungen bei Radio- und
Videofrequenzen
(IEC 60107-1:1997)

This European Standard was approved by CENELEC on 1997-03-11. 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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 100A/5 + 5A/FDIS, future edition 3 of IEC 60107-1, prepared by SC 100A, Multimedia end-user equipment, of IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60107-1 on 1997-03-11.

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) 1997-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1997-12-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annexes A, B and ZA are normative and annex C is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60107-1:1997 was approved by CENELEC as a European Standard without any modification.

In the official version, for annex C, Bibliography, the following notes have to be added for the standards indicated:

- IEC 61079-1 NOTE: Harmonized as EN 61079-1:1993 (not modified).
 - IEC 61079-2 NOTE: Harmonized as EN 61079-2:1993 (not modified).
 - IEC 61079-3 NOTE: Harmonized as EN 61079-3:1993 (not modified).
 - IEC 61079-5 NOTE: Harmonized as EN 61079-5:1993 (not modified).
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Annex ZA (normative)**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------|
| IEC 60065 (mod) | 1985 | Safety requirements for mains operated electronic and related apparatus for household and similar general use | | |
| + A2 (mod) | 1989 | | | |
| + A3 (mod) | 1992 | | EN 60065 ¹⁾ + corr. November | 1993 1993 |
| IEC 60068-1 | 1988 | Environmental testing Part 1: General and guidance | EN 60068-1 ²⁾ | 1994 |
| IEC 60107-2 | 1997 | Methods of measurement on receivers for television broadcast transmissions Part 2: Audio channels - General methods and methods for monophonic channels | EN 60107-2 | 1997 |
| IEC 60107-3 | 1988 | Recommended methods of measurement on receivers for television broadcast transmissions Part 3: Electrical measurements on multichannel sound television receivers using subcarrier systems | - | - |
| IEC 60107-4 | 1988 | Part 4: Electrical measurements on multichannel sound television receivers using the two-carrier FM system | - | - |
| IEC 60107-5 | 1992 | Part 5: Electrical measurements on multichannel sound television receivers using the NICAM two-channel digital sound-system | EN 60107-5 | 1992 |
| IEC 60107-6 | 1989 | Part 6: Measurements under conditions different from broadcast signal standards | HD 567.6 S1 | 1990 |

1) EN 60065 also includes A1:1987.

2) EN 60068-1 includes corrigendum October 1988 + A1:1992 to IEC 68-1.

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|
| IEC 60569 | 1977 | Informative guide for subjective tests on television receivers | - | - |
| IEC 60933-1 | 1988 | Audio, video and audiovisual systems Interconnections and matching values Part 1: 21 pin connector for video systems Application No. 1 | - | - |
| A1 | 1992 | | - | - |
| IEC 60933-2 | 1991 | Part 2: 21-pin connector for video systems Application No. 2 | - | - |
| IEC 60933-5 | 1992 | Part 5: Y/C connector for video systems Electrical matching values and description of the connector | EN 60933-5 | 1993 |
| CISPR 13 | 1990 ³⁾ | Limits and methods of measurement of radio interference characteristics of sound and television broadcast receivers and associated equipment | - | - |
| A3 | 1995 | | - | - |
| CISPR 20 ⁴⁾ | 1996 | Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment | - | - |
| ITU-R BT.471-1 | 1994 | Nomenclature and description of colour bar signals | - | - |
| ITU-T J.63 | 1990 | Insertion of test signals in the field-blanking interval of monochrome and colour television signals | - | - |
| ITU-R BT.470-4 | 1995 | Television systems | - | - |
| ITU-R BT.814-1 | 1994 | Specifications and alignment procedures for setting of brightness and contrast of displays | - | - |
| CIE 15.2 | 1986 | Colorimetry | - | - |
| CIE 46 | 1979 | A review of publications on properties and reflection values of material reflection standards | - | - |

C.W. Rhodes, The 12.5T modulated sine-squared pulse for NTSC, IEEE Transactions on Broadcasting, vol. BC-18, No. 1, March 1972

C.A. Siocos, Chrominance-to-luminance ratio and timing measurements in color television, IEEE Transactions on Broadcasting, Vol. BC-14, No. 1, March 1968

3) EN 55013:1990 (CISPR 13:1975 + A1:1983, mod.) + A12:1994 + A13:1996 applies.

The title of EN 55013 is: *Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment*.

4) Instead of CISPR 20:1996, EN 55020:1994 + corr. Jan. 1996 + A11:1996, *Electromagnetic immunity of broadcast receivers and associated equipment*, applies.

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