



National Standards Authority of Ireland

IRISH STANDARD

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ICS 13.310

**ALARM SYSTEMS -
CCTV SURVEILLANCE SYSTEMS FOR USE
IN SECURITY APPLICATIONS
PART 4-1: BLACK AND WHITE MONITORS**

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English version

**Alarm systems -
CCTV surveillance systems for use in security applications
Part 4-1: Black and white monitors**

Systèmes d'alarme -
Systèmes de surveillance CCTV à usage
dans les applications de sécurité
Partie 4-1: Moniteurs noir et blanc

Alarmanlagen -
CCTV-Überwachungsanlagen für
Sicherungsanwendungen
Teil 4-1: Schwarzweiß-Monitore

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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.

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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

This European Standard was prepared by the Technical Committee CENELEC TC 79, Alarm systems.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50132-4-1 on 1999-10-01

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) 2002-02-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-10-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex A is normative.

EN 50132 will consist of the following parts, under the general title "Alarm systems – CCTV surveillance systems for use in security applications".

- Part 1 System requirements;
- Part 2-1 Black and white cameras;
- Part 2-2 Colour cameras;
- Part 2-3 Lenses;
- Part 2-4 Ancillary equipment;
- Part 3 Local and main control unit;
- Part 4-1 Black and white monitors;
- Part 4-2 Colour monitors;
- Part 4-3 Recording equipment;
- Part 4-4 Hard copy equipment;
- Part 4-5 Video motion detection equipment;
- Part 5 Video transmission;
- Part 6 (free);
- Part 7 Application guidelines

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Introduction

Video monitors are electronic devices able to transform signals generated by television cameras into visible images corresponding to those focused on the imaging device of a television camera or electronically generated signals.

A video monitor comprises the following main components:

- a) Display device, e.g. cathode ray tube, liquid crystal display, etc.;
- b) Video amplification circuits;
- c) Synchronization circuits;
- d) Power supply circuits;
- e) Control and interfacing circuits.

Reference should be made to the guidelines on the application of video monitors in CCTV systems.

1 Scope

This standard specifies the minimum requirements for the specification and testing of black and white video monitors used in 625-line CCIR standard closed circuit television (CCTV) surveillance systems for security applications.

2 Normative references

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.

CCIR report 624-4		Characteristics of television systems
EN 50081-1	1992	Electromagnetic compatibility – Generic emission standard – Part 1: Residential, commercial and light industry
EN 50130-4 + A1	1995 1998	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity for components of fire, intruder and social alarm systems
EN 50132-7	1996	Alarm systems - CCTV surveillance systems for use in security applications – Part 7: Application guidelines
EN 60065	1998	Audio, video and similar electronic apparatus - Safety requirements (IEC 60065:1998, mod.)
EN 60068-1	1994	Environmental testing - Part 1: General and guidance (IEC 60068-1:1988 + corr. Oct.1988 + A1:1992)
EN 60068-2-1	1993	Environmental testing - Part 2: Tests - Tests A: Cold (IEC 60068-2-1:1990)
+ A1	1993	(IEC 60068-2-1:1990/A1:1993)
+ A2	1994	(IEC 60068-2-1:1990/A2:1994)

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