

INTERNATIONAL STANDARD

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Cinematography — Room and surround conditions for evaluating television display from telecine reproduction

*Cinématographie — Conditions portant sur l'environnement à respecter
pour évaluer l'image sur un moniteur à partir d'un transfert téléciné*



Reference number
ISO 12608:1996(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 12608 was prepared by Technical Committee ISO/TC 36, *Cinematography*.

Annex A of this International Standard is for information only.

Cinematography — Room and surround conditions for evaluating television display from telecine reproduction

1 Scope

This International Standard specifies the environmental and surround conditions that are required in standard definition television and video programme review areas for the consistent and critical evaluation of television signals and other video programme material, using different technical facilities on properly aligned colour-picture monitors.

This International Standard also specifies ambient lighting requirements for viewing rooms, the size of surround and background, colour monitor characteristics and observer viewing parameters. It is designed to provide for repeatable colour grading or correction and the rendering of subjective assessments.

2 Colour monitor characteristics

Parameters for the monitor screen at reference white (100 IRE) are as follows:

- a) a chromaticity of illuminant D₆₅;
- b) a screen luminance of $120 \text{ cd/m}^2 \pm 17 \text{ cd/m}^2$ for 60 Hz television systems;
- c) a screen luminance of $80 \text{ cd/m}^2 \pm 5 \text{ cd/m}^2$ for 50 Hz television systems.

This difference in screen reference white levels is to take account of the increased possibility of flicker effects, under certain circumstances, in 50 Hz television systems.

3 Observer viewing characteristics

3.1 The observer shall have normal colour perception.

3.2 Adequate time shall be allowed for visual adaptation to the viewing environment.

3.3 The observer's distance from the monitor screen(s) shall be 4 to 6 times the picture height.

3.4 The observer(s) shall view the monitor screen(s) at a preferred angle of $0^\circ \pm 5^\circ$, but no greater than $\pm 15^\circ$, in both the horizontal and vertical planes, from the perpendicular to the mid-point of the screen(s).