

SLOVENSKI STANDARD

SIST HD 369.5.2 S1:1999

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Audiovisual, video and television equipment and systems - Part 5: Control synchronization and address codes - Chapter II: Control systems for two still projectors - Operating practice (IEC 60574-5-2:1983)

Audiovisual, video and television equipment and systems -- Part 5: Control synchronization and address codes -- Chapter II: Control systems for two still projectors - Operating practice

Audiovisuelle Video- und Fernsehgeräte und -systeme -- Teil 5: Steuerung, Synchronisation und Codierung -- Kapitel II: Steuerungssysteme für zwei Stehbildprojektoren - Betriebsweise

Equipements et systèmes audio-visuel, magnétoscopiques et de télévision -- Partie 5: Commande, synchronisation et codes d'adressage -- Chapitre II: Systèmes de commande pour deux projecteurs de vues fixes - Pratique d'utilisation

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AUDIO-VISUAL, VIDEO AND TELEVISION EQUIPMENT AND SYSTEMS

PART 5 : CONTROL SYNCHRONIZATION AND ADDRESS CODES.

CHAPTER II: CONTROL SYSTEMS FOR TWO STILL PROJECTORS - OPERATING PRACTICE

Equipements et systèmes
 audio-visuels, magnétoscopiques
 et de télévision
 Cinquième partie: Commande,
 synchronisation et codes
 d'adressage.
 Chapitre II: Systèmes de
 commande pour deux projecteurs
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Audio-visuelle, Video- und
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 für zwei Stehbildprojektoren -
 Betriebsweise

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BODY OF THE HD

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The Harmonization Document consists of:

- IEC 574-5-2(1983) ed 1 ; IEC/SC 60C, not appended

This Harmonization Document was approved by CENELEC on 1986-02-27

The English and French versions of the HD are provided by the text of the IEC publication and the German version is the official translation of the IEC text.

According to the CENELEC Internal Regulations the CENELEC member National Committees are bound :

to announce the existence of this Harmonization Document at national level
 by or before 1986-07-01

to publish their new harmonized national standard
 by or before 1987-07-01

to withdraw all conflicting national standards
 by or before 1987-07-01

Harmonized national standards are listed on the HD information sheet,
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Cinquième partie : Commande, synchronisation et codes d'adressage

Chapitre II : Systèmes de commande pour deux projecteurs de vues fixes

Pratique d'utilisation
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Audio-visual, video and television equipment and systems

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Part 5 : Control, synchronization and address codes

Chapter II : Control systems for two still projectors

Operating practice



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CONTENTS

	Page
FOREWORD	5
PREFACE	5
Clause	
1. Scope	7
2. Definition of terms	7
2.1 Dissolve	7
2.2 Dissolve time	7
2.3 Dissolve cycle time	7
2.4 Cut	7
3. Operating practice	9
3.1 Operating instructions	9
3.2 Slide and magazine identification and orientation	9
3.3 Slide loading	9
3.4 Focus and alignment	9
3.5 Starting the programme	11
4. Programme control methods	11
5. Pulsed cue tone operation	11
6. Control equipment	11
6.1 Single-speed dissolve	11
6.2 Two-speed dissolve	13
6.3 Two-speed dissolve with superimposition	13
7. Alternative equipment capability	13
8. Recording of audio tapes	15
APPENDIX A. — Example of brief operating instructions for single-speed dissolve programmes	17

INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUDIO-VISUAL, VIDEO AND TELEVISION EQUIPMENT
AND SYSTEMS

Part 5: Control, synchronization and address codes

Chapter II: Control systems for two still projectors
Operating practice

FOREWORD

- 1) The formal decisions or agreements of the I E C on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the I E C expresses the wish that all National Committees should adopt the text of the I E C recommendation for their national rules in so far as national conditions will permit. Any divergence between the I E C recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

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This standard has been prepared by Sub-Committee 60C: Systems of Audio-visual and Electronic Technology (for Information and Communication), of I E C Technical Committee No. 60: Recording.

Drafts were discussed at the meetings held in Budapest in 1978, in Palo Alto in 1980 and in Prague in 1981. As a result of this latter meeting, a draft, Document 60C(Central Office)30 was submitted to the National Committees for approval under the Six Months' Rule in October 1981.

The National Committees of the following countries voted explicitly in favour of publication:

Australia	New Zealand
Belgium	Norway
Bulgaria	Poland
Czechoslovakia	Romania
Egypt	South Africa (Republic of)
France	Spain
Germany	Sweden
Japan	United Kingdom
Netherlands	

Other I E C publications quoted in this standard:

Publications Nos. 574-5: Audio-visual, Video and Television Equipment and Systems, Part 5: Control, Synchronization and Address Codes. Chapter I: Synchronized Tape/Visual Operating Practice.

574-10: Part 10: Audio Cassette Systems.

AUDIO-VISUAL, VIDEO AND TELEVISION EQUIPMENT AND SYSTEMS

Part 5: Control, synchronization and address codes

Chapter II: Control systems for two still projectors Operating practice

1. Scope

This standard extends the scope of I E C Publication 574-10: Audio-visual, Video and Television Equipment and Systems, Part 10: Audio Cassette Systems, by recommending procedures for the combined operation of a pair of slide projectors controlled by a recording on magnetic tape cassettes.

The methods are equally applicable to reel-to-reel tape systems.

The main objective of this standard is to ensure the compatibility of programmes with various makes of equipment. Rules are given for methods of compiling the visual part of the programme and correct procedure for starting the presentation of a programme. These rules are applicable to all two-projector systems irrespective of the method of control.

There are three types of control system:

- a) pulsed cue tones,
- b) a frequency modulated continuous tone,
- c) digital.

This standard specifies the requirements for pulsed cue tone operation only. The other two systems are dealt with separately.

2. Definition of terms

2.1 Dissolve

The smooth cross-fade from one image to off while the other image increases from off to operating brightness with intermediate superimposition.

2.2 Dissolve time

The time taken for a dissolve to be completed from operating brightness of one image to operating brightness of the other image.

2.3 Dissolve cycle time

The dissolve time plus the time taken for the next slide to be positioned in the off-projector ready for projection.

2.4 Cut

A very rapid change from one image to the next.

3. Operating practice

3.1 Operating instructions

- 3.1.1 Brief operating instructions should be included with, or on, the packaging or storage containers. An example, consistent with this standard, is given in Appendix A.

3.2 Slide and magazine identification and orientation

- 3.2.1 The magazines shall be clearly labelled A and B. The dissolve equipment or cable connectors shall be clearly labelled A and B. The A-projector shall be placed on the left of the B-projector when viewed from the rear of the projectors and facing the screen or the A-projector shall be on the top of the B-projector.
- 3.2.2 The slides for magazine A shall be numbered 1A, 2A, 3A, etc. Those in magazine B shall be numbered similarly, 1B, 2B, 3B, etc. (If it is desired that a slide number be included in the picture it shall appear in the upper right-hand corner of the projected image.)
- 3.2.3 Correct orientation of slides is achieved by marking "orientation spots" on the mount. To mark an "orientation spot" hold the slide in its correct direct viewing orientation and put the spot at the lower left-hand corner. To load the magazine, insert each slide in its numbered slot so that the orientation spot appears in the upper right-hand corner when viewed from the side to be illuminated by the projector lamp. (The use of mirrors in the light path or rear projection may require that each slide be rotated 180° about its vertical axis.)

Note. — The use of adhesive numbers or spots may cause defective operation of the slide change mechanism in the event of their peeling off.

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3.3 Slide loading

- 3.3.1 The slide sequence in both magazines shall start with an opaque slide. These shall be placed in the zero positions of the magazines, if provided. (To insert an opaque slide in the zero position of certain rotary magazines it has to be loaded into the gate of the projector before fitting the magazine.) In the case of magazines without zero positions the opaque slides shall be placed in the number one positions.

Note. — It is recognized that some projectors do not require an opaque slide; however, in order to ensure compatibility for programme exchange, the above clause should always be observed.

- 3.3.2 The first slide in the programme follows the opaque slide in the A-magazine and the next slide in the programme follows the opaque slide in the B-magazine. Normally, the remaining slides are loaded alternately in the A- and B-magazines. Following the loading of the last programme slide, an opaque slide shall be loaded in each magazine.

3.4 Focus and alignment

- 3.4.1 One slide in each magazine shall be designed to aid focus and alignment.

- 3.4.2 Specially designed focus and alignment slides which do not form part of the programme are preferred but title slides with suitably designed borders may be used. Focus and alignment slides shall be in identical mounts to the programme slides, and may be stored in the last position of the magazines.