
INTERNATIONAL STANDARD



2939

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Cinematography — Picture image area and photographic sound record on 35 mm motion-picture release prints — Positions and dimensions

Cinématographie — Champ d'image et piste sonore photographique sur les copies d'exploitation de 35 mm — Emplacements et dimensions

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2939 was drawn up by Technical Committee ISO/TC 36, *Cinematography*, and circulated to the Member Bodies in November 1973.

It has been approved by the Member Bodies of the following countries :

Australia	India	South Africa, Rep. of
Belgium	Italy	Sweden
Bulgaria	Japan	Switzerland
Czechoslovakia	Mexico	Thailand
Denmark	Netherlands	United Kingdom
Egypt, Arab Rep. of	New Zealand	U.S.A.
France	Poland	U.S.S.R.
Germany	Romania	

No Member Body expressed disapproval of the document.

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Cinematography — Picture image area and photographic sound record on 35 mm motion-picture release prints — Positions and dimensions

iTeh STANDARD PREVIEW (standards.iteh.ai)

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions and location of image and photographic sound record on 35 mm release prints with non-anamorphic picture and on release prints with anamorphic picture having lateral compression ratio of 2 : 1 and screen image aspect-ratio of 2,35 : 1, as well as the width and location of scanning beam.

2 REFERENCES

ISO 70, *Cinematography — 35 mm negative sound record on 35 mm motion-picture film — Position and width dimensions.*¹⁾

ISO 491, *Cinematography — 35 mm motion-picture film — Cutting and perforating dimensions.*

ISO 2906, *Cinematography — 35 mm motion-picture film — Image area produced by camera aperture.*

ISO 2907, *Cinematography — 35 mm motion-picture film — Projectable image area.*

3 DIMENSIONS

3.1 The dimensions shall be as referred to in the figure and given in the table.

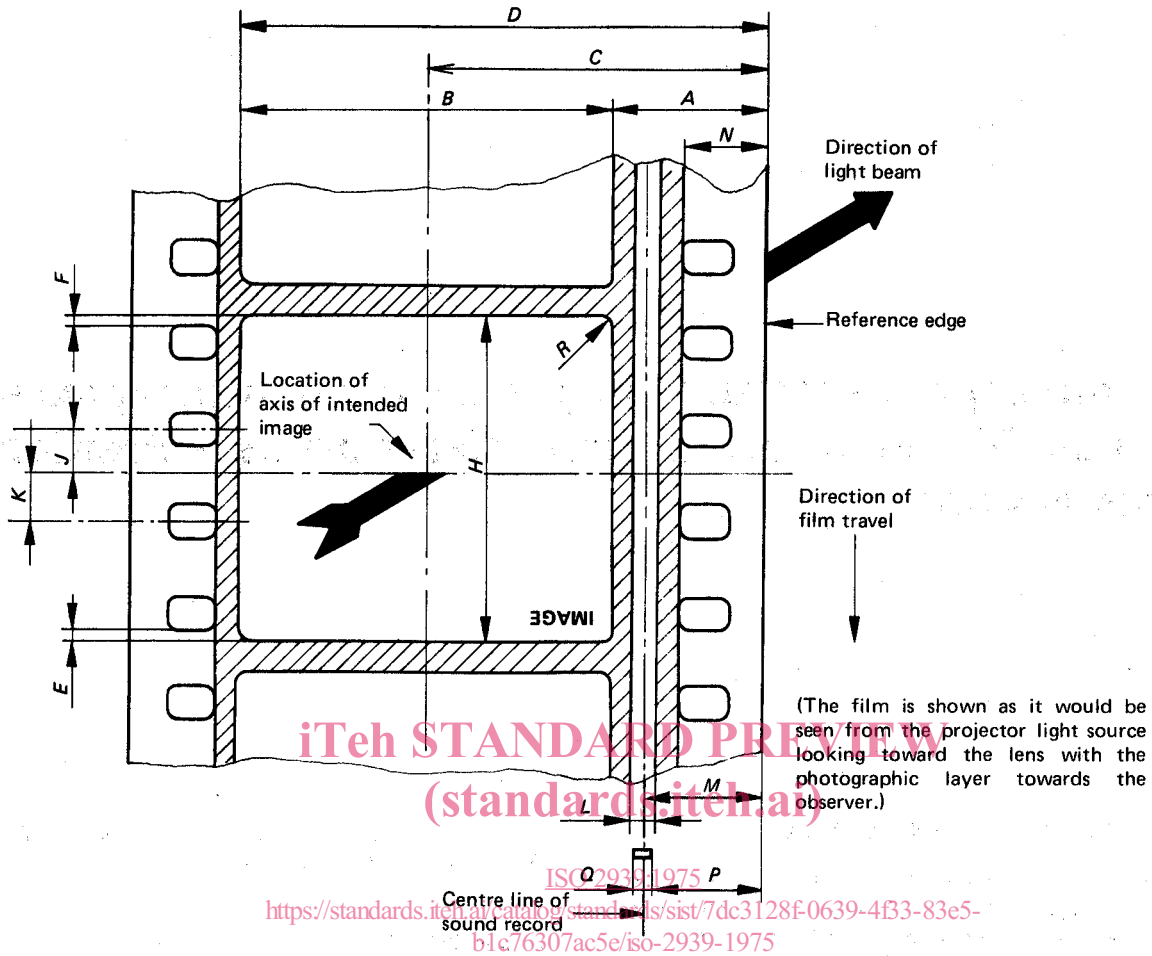
3.2 Dimensions are given relative to unshrunk film.

3.3 The sound record shall be displaced from the centre of the corresponding picture by a distance of $21 \pm 1/2$ frame in the direction of film travel during normal projection.

4 TECHNICAL CHARACTERISTICS

Spaces between image frames, the image and the sound record and between the sound record and perforations should be substantially opaque.

1) At present at the stage of draft. (Revision of ISO/R 70.)



ISO 2939-1975
 Centre line of sound record
<https://standards.itih.a/standards/sist/7dc3128f-0639-4f33-83e5-b1c76307ac5e/iso-2939-1975>

Dimension	mm	in
A	7,80 ^{+ 0,08} _{- 0,15}	0.307 ^{+ 0.003} _{- 0.006}
B	Ref. 21,77	0.857
C	nom. 18,75	0.738
D	min. 29,65	1.167
H ₁	(see note 1) 18,60 ^{+ 0,20} ₀	0.732 ^{+ 0.008} ₀
H ₂	(see note 2) 16,00 ^{+ 0,50} ₀	0.630 ^{+ 0.020} ₀
H ₃	(see note 3) 16,50 max. 12,80 min.	0.650 max. 0.504 min.
L ₁	(see note 4) 1,93 ^{+ 0,03} _{- 0,08}	0.076 ^{+ 0.001} _{- 0.003}
L ₂	(see note 5) 2,54 ⁰ _{- 0,20}	0.100 ⁰ _{- 0.008}
M	6,17 ± 0,08	0.243 ± 0.003
N	max. 4,90	0.193
P	5,10 ± 0,03	0.201 ± 0.001
Q	2,13 ^{+ 0,03} ₀	0.084 ^{+ 0.001} ₀
R	max. 0,8	0.03

NOTES

- 1 For wide-screen films with anamorphic picture and aspect-ratio 2,35 : 1.
- 2 For films with non-anamorphic picture and aspect-ratio 1,37 : 1.
- 3 For film with non-anamorphic picture intended for projection with the picture masking and aspect-ratio up to 1,85 : 1.
- 4 For variable area sound records.
- 5 For variable-density sound records.

E = F ± 0,25 mm (0.010 in)
 K = J (nominal) (see note 1)