## International Standard



2939

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION●MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ●ORGANISATION INTERNATIONALE DE NORMALISATION

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

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

Second edition - 1986-10-15 (standards.iteh.ai)

ISO 2939:1986
https://standards.iteh.ai/catalog/standards/sist/dfe281cf-4d5e-4d42-bda6-65911b0cafcc/iso-2939-1986

Descriptors: cinematography, motion-picture films, motion-picture film - 35 mm, prints, photographic images, sound track, dimensions,

layout, position (location).

#### **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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

TANDARD PREVIEW

International Standard ISO 2939 was prepared by Technical Committee ISO/TC 36, Cinematography.

This second edition cancels and replaces the first edition (ISO 2939-1975)/8clauses 2 and 3 of which have been technically prevised dards itch ai/catalog/standards/sist/dfe281cf-4d5e-4d42-bda6-65911b0cafcc/iso-2939-1986

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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

#### iTeh STANDARD PREVIEW

Scope and field of application standards.i

This International Standard specifies the dimensions and location of image and photographic sound record on 35 mm release 0.108 prints with non-anamorphotic picture and on release prints with anamorphotic picture having a lateral compression ratio of 2 1 and rds/sist/dfe281cf-4d5e-4d42-bda6and screen image aspect-ratio of 2,35 : 1, as well as the widthso-29 and location of the scanning beam.

film in reproducers, defines the position of sound synchronization marks as being displaced 20 frames from the picture, i.e., 21 frames minus 1 frame.

frame. For this reason, ISO 4241, intended to assist in the threading of

#### 3-1Technical characteristics

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

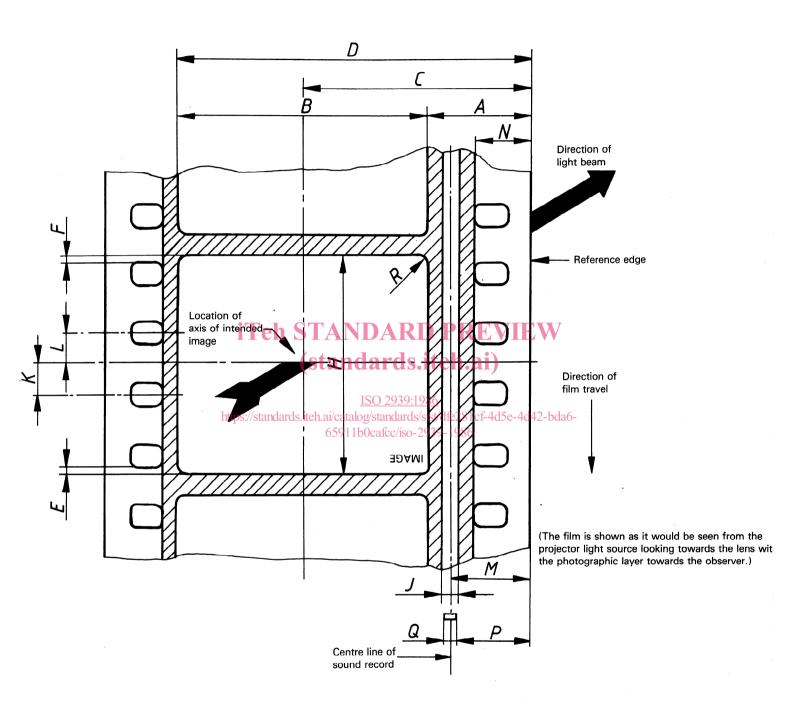
#### 2 Dimensions

- 2.1 The dimensions shall be as shown in the figure and given in the table.
- Dimensions are given relative to unshrunk film.
- 2.3 The sound record shall be displaced from the centre of the corresponding picture by a distance of 21 ± 1/2 frames in the direction of film travel during normal projection.

NOTE - While picture and sound are correctely synchronized with a displacement of 21  $\pm$  1/2 frames on the film, normal playback of motion pictures occurs in theatres where the relatively slow speed of sound means that the audio should preceed the picture at the screen if subjectively correct synchronism is to be achieved in the middle of the theatre. An average seat location has been determined to be approximately 15 m from the screen, representing a displacement of one

#### **Bibliography**

- ISO 70, Cinematography Monophonic 35 mm negative photographic sound record on 35 mm motion-picture film -Position and maximum width dimensions.
- ISO 491, Cinematography 35 mm motion-picture film and magnetic film - Cutting and perforating dimensions.
- ISO 2906, Cinematography Image area produced by camera aperture on 35 mm motion-picture film — Position and dimensions.
- ISO 2907, Cinematography Maximum projectable image area on 35 mm motion-picture film — Position and dimensions.
- ISO 4241, Cinematography Leaders and run-out trailers for 35 mm and 16 mm release prints - Specifications.



Figure

Table

	Dimension		mm	in .
	A		7,80 <sup>+ 0,08</sup> - 0,15	0.307 <sup>+ 0.003</sup> - 0.006
	В	ref.	21,77	0.857
	$\boldsymbol{C}$	nom.	18,75	0.738
į	D	min.	29,65	1.167
	$H_1$	(see note 1)	18,60 <sup>+ 0,20</sup>	0.732 <sup>+ 0.008</sup>
l	$H_2$	(see note 2)	16,00 <sup>+ 0,50</sup>	0.630 <sup>+ 0.020</sup>
	Н3	(see note 3)	16,50 max. 12,80 min.	0.650 max. 0.504 min.
l	$J_1$	(see note 4)	1,93 <sup>+ 0,03</sup> - 0,08	0.076 <sup>+ 0.001</sup> - 0.003
iT	e j <sup>2</sup>	(see note 5)	$0$ $A_{6,17}^{2,54}$ $\stackrel{0}{=}$ $$	$\begin{array}{c} 0.100 & 0.008 \\ 0.243 \pm 0.003 \end{array}$
	N	<b>festand</b>	ards.iteh.:	ai 0.193
	P		5,10 ± 0,03	0.201 ± 0.001
tps://st	Q andaro R	Is.iteh.ai/catalog	SO 29 <u>393 985</u> 03 y/standards/sist/dfe281 )cafec/88-2939-1986	0.084 + 0.001 cf-4d5e-4d42-bda6- 0.03

 $E = F \pm 0.25 \text{ mm (0.010 in)}$ K and L shall be approximately equal

#### NOTES

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

## iTeh STANDARD PREVIEW

standards itch ai This page intentionally left blank

65911b0cafcc/iso-2939-1986

## iTeh STANDARD PREVIEW

This page intentionally left blank

ISO 2939:1986 https://standards.iteh.ai/catalog/standards/sist/dfe281cf-4d5e-4d42-bda6-65911b0cafcc/iso-2939-1986

## iTeh STANDARD PREVIEW

This page intentionally left blank

ISO 2939:1986 https://standards.iteh.ai/catalog/standards/sist/dfe281cf-4d5e-4d42-bda6-65911b0cafcc/iso-2939-1986