

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 162

LOCATION OF RECORDING HEADS
FOR THREE MAGNETIC SOUND RECORDS ON 35 mm FILM AND
ONE MAGNETIC SOUND RECORD ON 17.5 mm FILM

1st EDITION

July 1960

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BRIEF HISTORY

The ISO Recommendation R 162, *Location of Recording Heads for Three Magnetic Sound Records on 35 mm Film and One Magnetic Sound Record on 17.5 mm Film*, was drawn up by Technical Committee ISO/TC 36, *Cinematography*, the Secretariat of which is held by the American Standards Association, Inc. (ASA).

During its first meeting, held in New York, in June 1952, the Technical Committee turned over to its Secretariat the study of a draft proposal for an ISO Recommendation drawn up as recommended by the Working Group No. 4, *Dimensions and Locations for Sound Records* on the basis of the American Standard PH22.86-1953 (Dimensions of sound records on 35 mm and 17.5 mm motion picture film).

This draft proposal was submitted, in September 1954, to the Technical Committee for adoption, and in December 1954 to the ISO Member Bodies for approval.

At the second meeting of ISO/TC 36, held in Stockholm, in June 1955, it was unanimously decided, in the light of certain observations put forward by the Working Group, to have the Secretariat undertake the study of a new draft proposal to take the place of the first one.

In October 1955, this second draft proposal was presented to the members of the Technical Committee; it was recast by the Secretariat to incorporate a number of substantially similar observations made by France, Sweden, the U.S.S.R. and the United Kingdom; when submitted in this modified form to the members of the Technical Committee ISO/TC 36 for their approval, it was adopted as a Draft ISO Recommendation.

On 27 December 1957, the Draft ISO Recommendation (No. 199) was distributed to all the ISO Member Bodies and was approved, subject to some modifications, by the following Member Bodies:

Belgium	Germany	Rumania
Bulgaria	Hungary	Sweden
Burma	Italy	Switzerland
Canada	Japan	United Kingdom
Czechoslovakia	New Zealand	U.S.A.
France	Portugal	U.S.S.R.

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in July 1960, to accept it as an ISO RECOMMENDATION.

LOCATION OF RECORDING HEADS FOR THREE MAGNETIC SOUND RECORDS ON 35 mm FILM AND ONE MAGNETIC SOUND RECORD ON 17.5 mm FILM

1. SCOPE

This ISO Recommendation specifies the location and dimensions of the magnetic sound recording heads for recording up to three magnetic sound records on 35 mm motion-picture film and one magnetic sound record on 17.5 mm motion-picture film.

This ISO Recommendation relates the placement of the magnetic coating on the film to the direction of film travel.

2. DIMENSIONS

The dimensions are as specified in the figure and the table below.

3. SOUND RECORDS

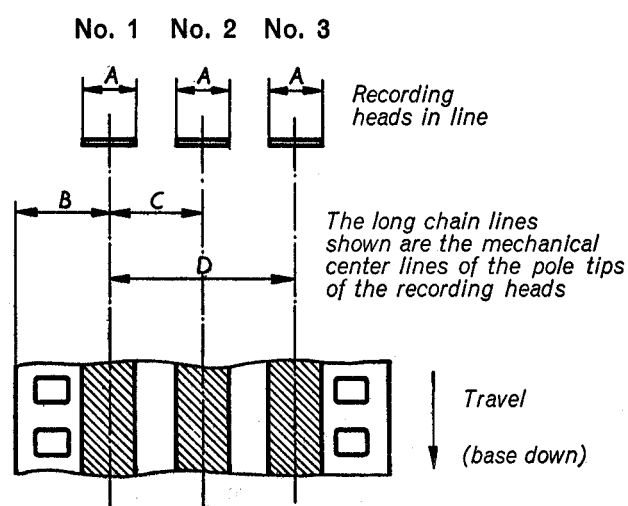
Head No. 1 should be employed when recording a single sound record on 35 mm film.

Head No. 1 should be employed for recording the sound record on 17.5 mm film.

4. MAGNETIC COATING

With the direction of film travel shown in the figure, the magnetic coating is on the upper face of the film base.

Dimension	Millimetres	Inches
<i>A</i>	$5.0 \begin{smallmatrix} + 0.1 \\ - 0 \end{smallmatrix}$	$0.200 \begin{smallmatrix} + 0.004 \\ - 0 \end{smallmatrix}$
<i>B</i>	8.6 ± 0.05	0.339 ± 0.002
<i>C</i>	8.9 ± 0.05	0.350 ± 0.002
<i>D</i>	17.8 ± 0.05	0.700 ± 0.002



Note: The millimetre and inch dimensions represent acceptable practice, though positions of the outer tracks differ slightly in the two systems. The advantage of round numbers in both systems justifies the differences.