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**Cinematography — Multichannel  
analogue and digital photographic  
sound and control records on 35 mm  
motion-picture prints and negatives,  
and digital sound-control records  
on 70 mm motion-picture prints  
and negatives — Position and width  
dimensions**

*Cinématographie — Enregistrements des commandes et du son  
photographiques analogiques et numériques multicanaux sur  
copies et négatifs cinématographiques 35 mm, et enregistrements  
des commandes sonores numériques sur copies et négatifs  
cinématographiques 70 mm — Position et dimensions en largeur*



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## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 36, *Cinematography*.

This second edition cancels and replaces the first edition (ISO 17266:2002), which has been technically revised.

# Cinematography — Multichannel analogue and digital photographic sound and control records on 35 mm motion-picture prints and negatives, and digital sound-control records on 70 mm motion-picture prints and negatives — Position and width dimensions

## 1 Scope

This document specifies the lateral, and vertical where applicable, positions and width dimensions of multichannel analogue and digital photographic sound records and control tracks on 35 mm and 70 mm motion-picture prints and negatives.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

## 4 Positions and dimensions

**4.1** The general positions of analogue, control and digital tracks for 35 mm motion-picture film are shown in [Figure 1](#).

**4.2** The positions and dimensions of the analogue area shall be as shown in [Figure 2](#) and given in [Table 1](#).

**4.3** The positions and dimensions of the type I digital sound records for positive print film shall be as shown in [Figure 3](#) and given in [Table 2](#).

**4.4** The positions and dimensions of the type I digital sound records for negative film shall be as shown in [Figure 3](#) and given in [Table 3](#).

**4.5** The positions and dimensions of the type II digital sound records for positive print film shall be as shown in [Figure 4](#) and given in [Table 4](#).

**4.6** The positions and dimensions of the type II digital sound records for negative film shall be as shown in [Figure 4](#) and given in [Table 5](#).

**4.7** The positions and dimensions of the type III digital control track for positive print film shall be as shown in [Figure 5](#) and given in [Table 6](#).

**4.8** The positions and dimensions of the type III digital control track for negative film shall be shown in [Figure 5](#) and given in [Table 7](#).

**4.9** The positions and dimensions of the type III digital control track for 70 mm positive print film shall be as shown in [Figure 6](#) and given in [Table 8](#).

**4.10** The positions and dimensions of the type III digital control track for 35 mm negative film for the printing of 70 mm positive print film shall be as shown in [Figure 7](#) and given in [Table 9](#).

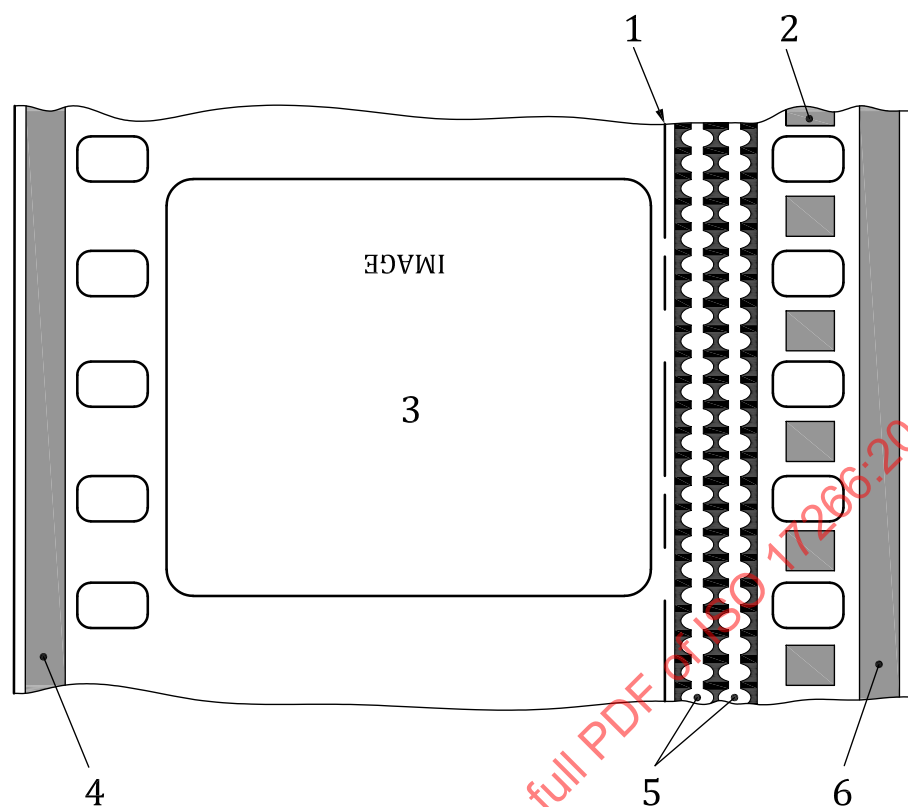
## **5 Analogue sound records**

**5.1** Channel 1 and channel 2 (often known as left total and right total) shall be positioned in line at an angle of  $90^\circ \pm 5'$  to the reference edge of the film.

**5.2** Channel 2 shall be recorded nearest the outer edge of the film, as shown in [Figure 2](#).

**5.3** The septum area between channels 1 and 2 shall be effectively opaque on prints.

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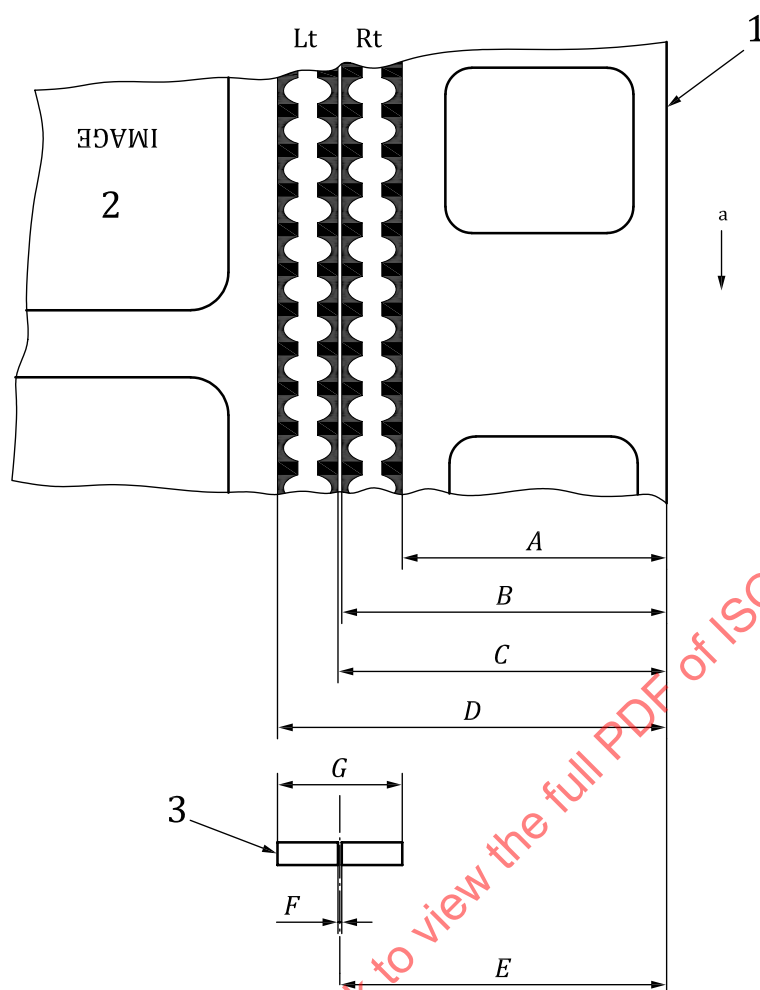
**Key**

- 1 type III
- 2 type I
- 3 image
- 4 P track type II
- 5 analogue sound records
- 6 S track type II

**NOTE**

Type I: Interperforation — digital.  
 Type II: Outerperforation — digital.  
 Type III: Control track.

**Figure 1 — Composite audio data track and control placement**

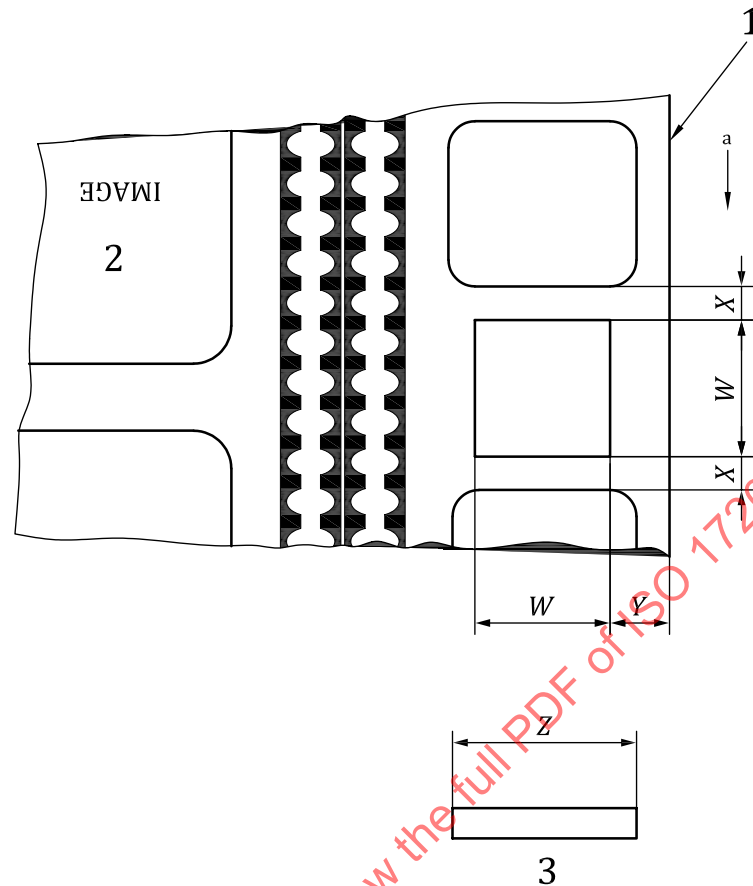
**Key**

- 1 reference edge
- 2 image
- 3 scanning area
- a Direction of travel.

**Figure 2 — Analogue area****Table 1 — SVA print dimensions**

Dimension	mm	in
$A_{\text{ref}}$	5,21	0.205
$B$	$6,05 \pm 0,05$	$0.238 \pm 0.002$
$C$	$6,30 \pm 0,05$	$0.248 \pm 0.002$
$D_{\text{ref}}$	7,14	0.281
$E_{\text{ref}}$	$6,18 \pm 0,03$	$0.243 \pm 0.001$
$F_{\text{ref}}$	0,05	0.002
$G_{\text{max}}$	2,13	0.084
Channel 1 Lt Track Centre: 6,72 mm (0.264 5 in).		
Channel 2 Rt Track Centre: 5,63 mm (0.221 5 in).		



**Key**

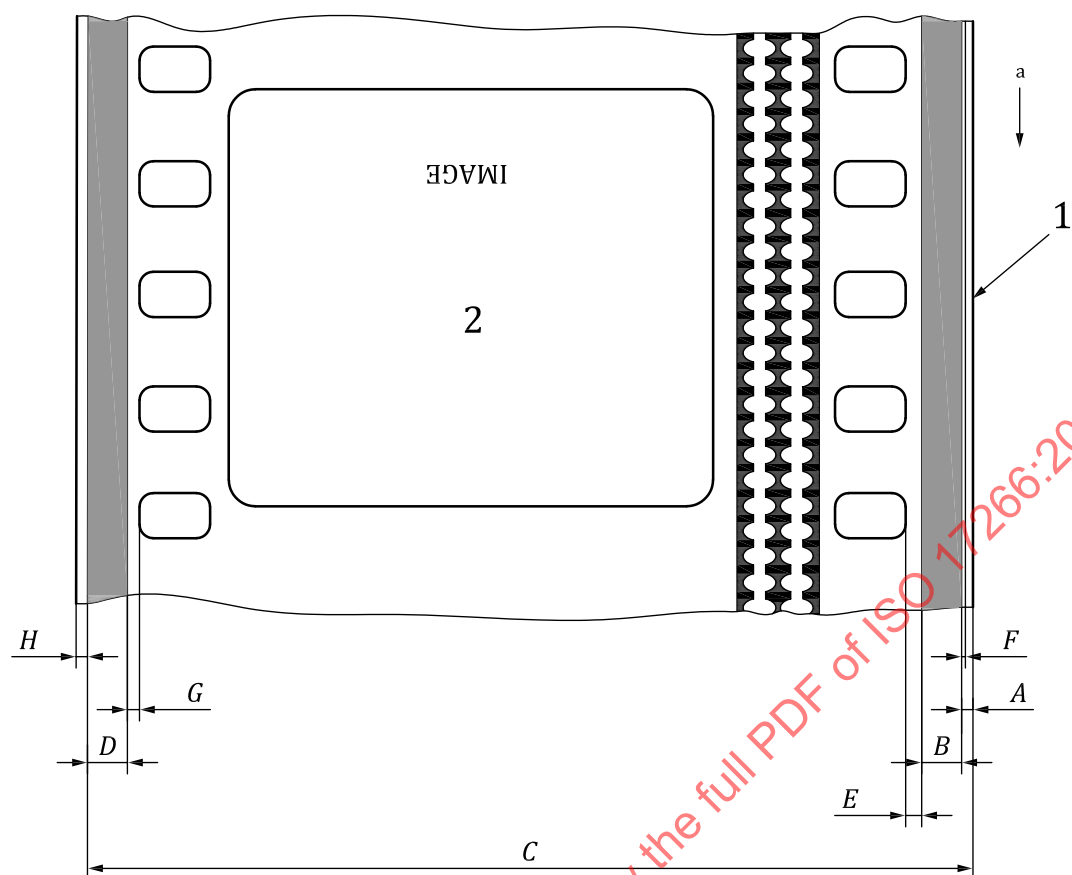
- 1 reference edge
- 2 image
- 3 printer aperture
- a Direction of travel.

**Figure 3 — Type I digital sound records****Table 2 — Type I digital print dimensions**

Dimension	mm	in
<i>W</i>	2,41	0.095
<i>X</i>	$0,160 \pm 0,076\ 2$	$0.006\ 3 \pm 0.003$
<i>Y</i>	$2,185 \pm 0,076\ 2$	$0.086\ 0 \pm 0.003$
<i>Z</i>	2,77	0.109

**Table 3 — Type I digital negative dimensions**

Dimension	mm	in
<i>X</i>	$0,160 \pm 0,038\ 1$	$0.006\ 3 \pm 0.001\ 5$
<i>Y</i>	$2,185 \pm 0,038\ 1$	$0.086\ 0 \pm 0.001\ 5$

**Key**

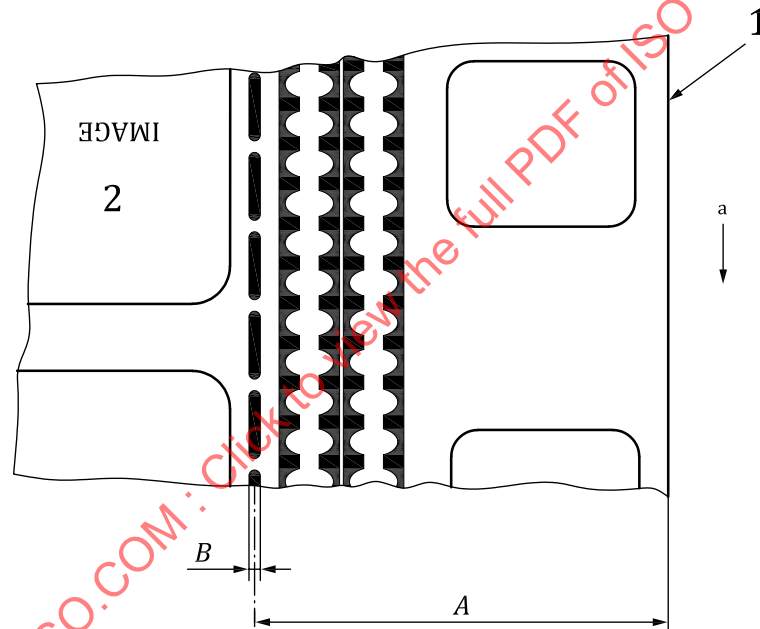
- 1 reference edge  
 2 image  
 a Direction of travel.

**Figure 4 — Type II digital sound records****Table 4 — Type II digital print dimensions**

Dimension	mm	in	Description
A	$0,295 \pm 0,05$	$0.011\ 61 \pm 0.002\ 0$	Reference film edge to leading edge of "white" tracking start (S)
B	$1,536 \pm 0,02$	$0.060\ 47 \pm 0.000\ 8$	Data and tracking area (64 spots $\times$ 24 $\mu$ m)
C	$34,681 \pm 0,07$	$1.365\ 39 \pm 0.002\ 8$	Reference film edge to leading edge of "white" tracking start (P)
D	$1,536 \pm 0,02$	$0.060\ 47 \pm 0.000\ 8$	Data and tracking area (64 spots $\times$ 24 $\mu$ m)
E	$0,175 \pm 0,05$	$0.006\ 89 \pm 0.002\ 0$	End of data to perforated edge margin (S)
F	$0,120^{+0,1}_0$	$0.004\ 72^{+0.003\ 9}_0$	Edge margin area (S)
G	$0,175 \pm 0,05$	$0.006\ 89 \pm 0.002\ 0$	End of data to perforated edge margin (P)
H	$0,120^{+0,1}_0$	$0.004\ 72^{+0.003\ 9}_0$	Edge margin area (P)

Table 5 — Type II digital negative dimensions

Dimension	mm	in	Description
<i>A</i>	$0,295 \pm 0,02$	$0.011\ 61 \pm 0.000\ 8$	Reference film edge to leading edge of “white” tracking start (S)
<i>B</i>	$1,536 \pm 0,02$	$0.060\ 47 \pm 0.000\ 8$	Data and tracking area (64 spots $\times$ 24 $\mu$ m)
<i>C</i>	$34,681 \pm 0,04$	$1.365\ 39 \pm 0.001\ 6$	Reference film edge to leading edge of “white” tracking start (P)
<i>D</i>	$1,536 \pm 0,02$	$0.060\ 47 \pm 0.000\ 8$	Data and tracking area (64 spots $\times$ 24 $\mu$ m)
<i>E</i>	$0,175 \pm 0,02$	$0.006\ 89 \pm 0.000\ 8$	End of data to perforated edge margin (S)
<i>F</i>	$0,120^{+0,1}_0$	$0.004\ 72^{+0.003\ 9}_0$	Edge margin area (S)
<i>G</i>	$0,175 \pm 0,02$	$0.006\ 89 \pm 0.000\ 8$	End of data to perforated edge margin (P)
<i>H</i>	$0,120^{+0,1}_0$	$0.004\ 72^{+0.003\ 9}_0$	Edge margin area (P)

**Key**

- 1 reference edge  
 2 image  
 a Direction of travel.

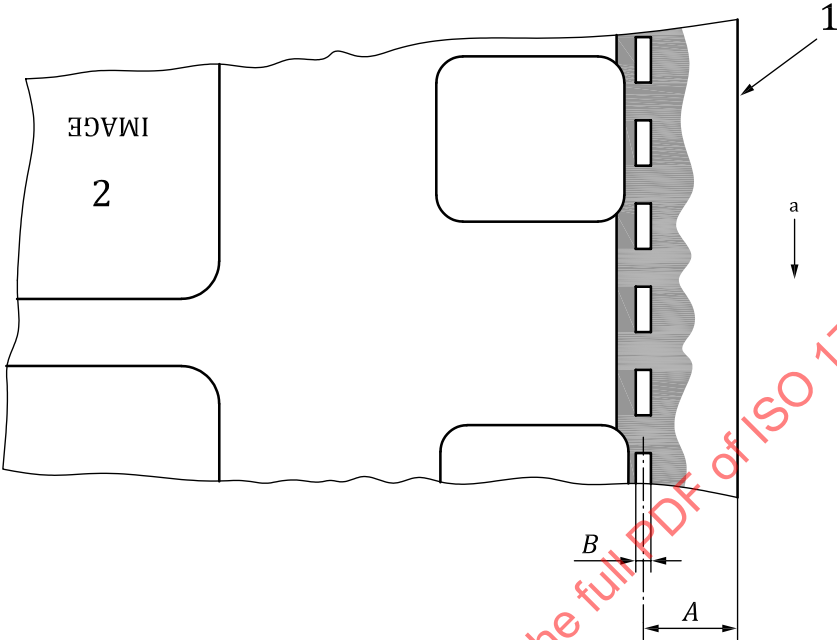
Figure 5 — Type III digital control track

Table 6 — Type III digital print dimensions

Dimension	mm	in
<i>A</i>	$7,584\ 4 \pm 0,05$	$0.298\ 6 \pm 0.002$
<i>B</i>	0,0762 to 0,1524	0.003 to 0.006

Table 7 — Type III digital negative dimensions, 35 mm

Dimension	mm	inch
A	7,584 4 ± 0,012 7	0.298 6 ± 0.000 5
B	0,076 2 to 0,203 2	0.003 to 0.008



- Key**
- 1 reference edge
  - 2 image
  - a Direction of travel.

Figure 6 — Type III 70 mm control track-print

Table 8 — Type III digital print dimensions, 70 mm

Dimension	mm	in
A	4,953 ± 0,05	0.195 0 ± 0.002
B	0,762 ± 0,13	0.030 ± 0.005