
Oculus3D FORMAT SPECIFICATION

for Motion-Picture Film (35-mm) – Stereoscopic Prints with Horizontally Positioned Sideframes – Projectable Image Areas

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1 Scope

This document specifies the maximum dimensions of the film image area intended for projection from 35-mm motion-picture film using horizontally positioned sideframes for stereoscopic projection, and the placement of this area relative to the perforations and the reference edge of the film.

2 Sideframes

The image area intended for projection is divided into two sideframes, as shown in Figure 1. The right sideframe, relative to the direction of film travel, shall be the right image, and the left sideframe, relative to the direction of film travel, shall be the left image. The images in the left and right sideframes shall be rotated counter-clockwise orthogonally from the normal viewing orientation relative to the direction of film travel.

3 Aspect ratios

The sideframe images may be projected in aspect ratios of either 1.85:1 or 2.4:1. For the 1.85 aspect ratio, each sideframe is filled with image as given by Table 1 where $K=L=9.474\text{mm}$. For the 2.4:1 aspect ratio the left and right images do not occupy the full sideframe area as given by Table 1 where $K=L=7.335\text{mm}$. For the 2.4:1 aspect ratio the sideframe images contact the sideframe frameline or septum as identified by P in Figure 1. Thus the bottom of the left and the top of the right images are in contact with the septum.

4 Projection optics image rotation

The projection optics shall orthogonally rotate the two sideframe images clockwise relative to the direction of film travel.

Figure 1 - Dimensions

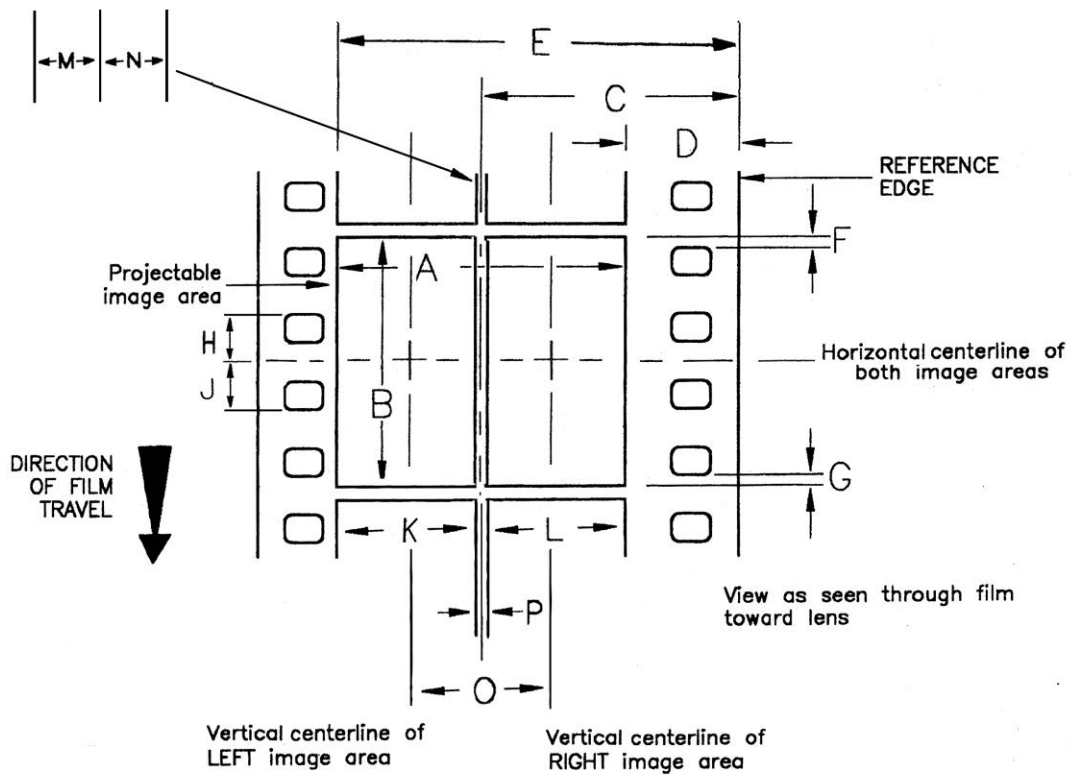


Table 1 - Specifications

Dimensions	1.85:1		2.4:1	
	Millimeters		Millimeters	
A	20.96	nom	20.96	nom
B	17.53	max	17.53	max
C	18.75	ref	18.75	ref
D	8.23	min	8.23	min
E	29.24	max	29.24	max
F = G	Nominally	equal	Nominally	equal
O	11.506	±0.013	11.506	±0.013
M=N	Nominally	equal	Nominally	equal
H=J	Nominally	equal	Nominally	equal
K=L	9.474	nom	7.335	nom
P	2.032	nom	2.032	nom