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# 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 dimensions of the film image area intended for projection from a 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 descriptions herein are dependent on the following conditions: The film is viewed relative to the direction of film travel as shown in Figure 1 and as viewed through the film toward the projection lens.

The left image shall be contained within the right sideframe, and the right image shall be contained within the left sideframe (adjacent to the sound track area).

Each left and right sideframe image shall be “flopped” left to right and given this mirror

image orientation each sideframe shall be rotated clockwise ninety degrees from the normal viewing orientation as illustrated in Figure 2.

### 3 Aspect ratios

The sideframe images may be projected in aspect ratios of either 1.85:1 or 2.39:1. For the 1.85 aspect ratio each sideframe is entirely filled with image as given by Table 1 where  $K=L=9.474\text{mm}$  by  $B = 17.53\text{mm}$ . For the 2.39:1 aspect ratio the image areas do not occupy the full sideframe area but rather, as given by Table 1, each occupies  $K=L=7.335\text{mm}$  by  $B = 17.53$ . For the 2.39:1 aspect ratio the sideframe images retain the same centering as the 1.85 aspect ratio sideframes.

### 4 Projection optics image rotation

The projection optics shall rotate the two sideframe images counter-clockwise through ninety degrees.

Figure 1 - Dimensions

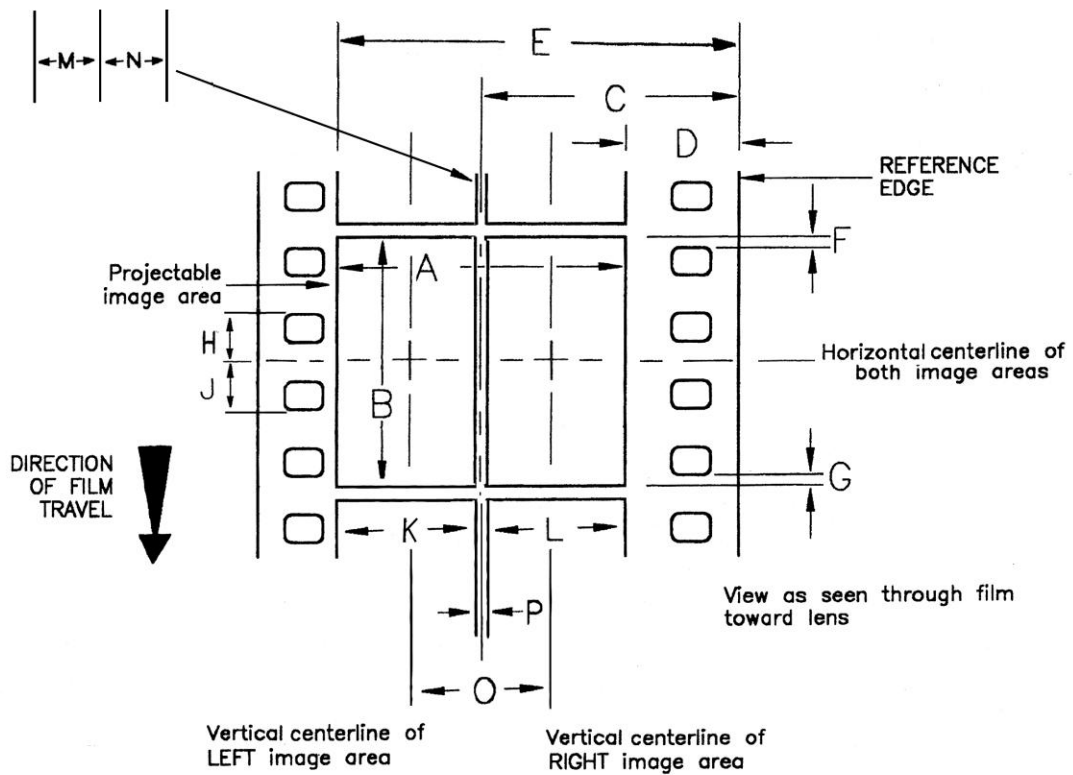
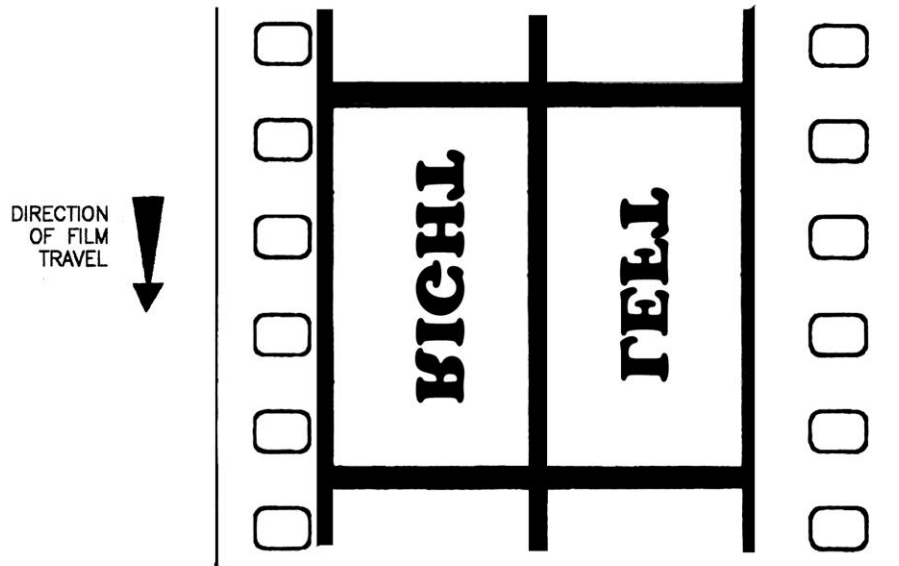


Table 1 - Specifications

Dimensions	1.85:1		2.39:1	
	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

Figure 2 -- Orientation



View as seen through film  
toward lens