RP 114-1994
Revision of RP 114-1983

SMPTE RECOMMENDED PRACTICE

Dimensions of Photographic Control and Data Record on 16-mm Motion-Picture Film

1 Scope

This practice specifies the lateral location and dimensions of a photographic control and data record on 16-mm motion-picture originals, intermediates, and prints, the width scanned by the control and data reproducer, and the reproducer spectral sensitivity.

2 Data record

2.1 The dimensions and lateral location of the control and data record shall be as specified in figure 1 and table 1.

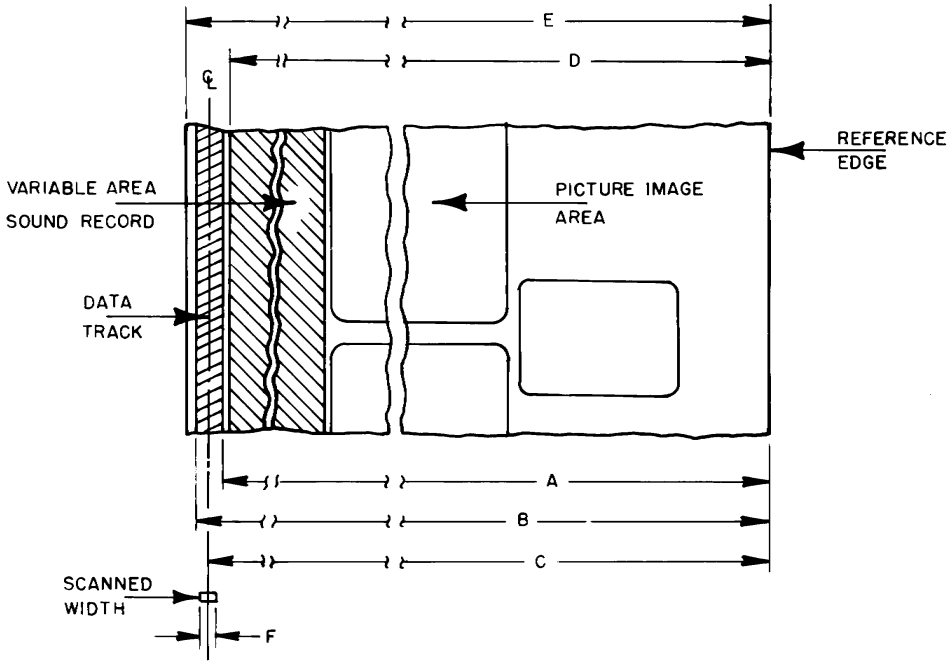

Figure 1 – Control and data record

Table 1 – Specifications

Dimensions	Inches	Millimeters
A	0.612 ± 0.001	15.54 ± 0.03
B	0.622 ± 0.001	15.80 ± 0.03
C	0.617 ± 0.001	15.67 ± 0.03
D	0.600 ref	15.24 ref
E	0.628 ref	15.95 ref
F	0.005 ± 0.001	0.13 ± 0.03

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2.2 The recording and reproducing slit images shall be positioned at an angle of 90° ± 1° to the reference edge of the film.

3 Reproducer spectral sensitivity

The peak or maximum response of the combination of the control and data track reproducer, light source, filter, and receptor shall be at 550 nm + 130 nm – 0 nm. The integrated response of this combination to all wavelengths greater than 800 nm shall be less than 5% of the total integrated response measured from 400 nm to 800 nm.

Annex A (informative)
Additional data

The spectral response specified in clause 3 is intended to ensure that the control and data track will be adequately reproduced whether the track image is formed of dyes, silver, or dyes and silver. Restriction of the infrared response is necessary because the dyes used in conventional color motion-picture films do not absorb infrared light effectively. Since dirt and scratches on the film will absorb infrared light, restriction of the infrared response will improve the signal-to-noise ratio of the system.