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SMPTE STANDARD

for Television Analog Recording — 1-in Type C — Basic System and Transport Geometry Parameters



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1 Scope

This standard specifies the general video record system, video pole tip locations, scanner parameters, scanner-guide locations, tape tension, and test conditions for 1-in type C helical-scan television analog recorders operating on the 525/60 monochrome or NTSC color systems.

2 General specifications

Tests and measurements made on the recorder to check the requirements of this standard shall be made under the following atmospheric conditions:

Temperature for drum diameter:	20°C ± 1°C
Temperature for other tests:	20°C ± 1°C
Relative humidity:	(50 ± 2)%
Barometric pressure:	86 kPa to 106 kPa
Conditioning before testing:	24 h

3 Video and sync record system

3.1 Exactly one field of video shall be recorded during each scanner revolution. The record shall be divided into two parts, video and sync. The user's attention is called to the possibility that compliance with this standard may require use of an invention covered by patent rights.

3.2 The video record shall contain all active picture lines and sufficient vertical sync information for playback synchronization. Information not contained in the video record is defined as the vertical-interval dropout (see SMPTE 19M).

3.3 The sync record shall contain a number of horizontal TV lines during the vertical interval including those of the vertical-interval dropout and sufficient overlap of information for playback switching (see SMPTE 19M).

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