

COMMITTEE T1  
CONTRIBUTION

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STANDARDS PROJECT: ANALOG INTERFACE PERFORMANCE SPECIFICATIONS  
FOR DIGITAL VIDEO TELECONFERENCING/VIDEO  
TELEPHONY SERVICE

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TITLE: SUGGESTED GUIDELINES FOR THE SELECTION OF  
TEST SCENES FOR USE IN SUBJECTIVE TESTS

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SUGGESTED GUIDELINES FOR THE SELECTION  
OF TEST SCENES FOR USE IN SUBJECTIVE TESTS

The purpose of the test tape is to provide material for subjective evaluation of the performance of various transmission channels (reference circuits). Methods of objective measurement are being developed to make it possible to numerically describe the performance of the transmission channel and set a standard of acceptable performance for different applications. Patterns for those objective tests which are promising for selection should be included on the test tape. This does not refer to conventional analog test waveforms for which standard video test equipment should be used. Previous experience has shown that tape recorded analog test signals do not produce satisfactory results.

Each of the selected test sequences should be assignable to one of the application categories listed on Table 1 (page 19) of Document T1A1.5/92-107. It should be noted that it has been suggested that Spatial Performance Level 4 and Temporal Performance Level 3 be subjected to further study since they are likely to exceed the inherent performance limitations of equipment designed to comply with the VTC/VT draft standard. The presently available test sequences have all been analyzed mathematically as to their spatial and temporal information content and scrutinized visually as to their pictorial content. There is no obvious correlation between these two descriptions of content.

The standard test tape being developed must cover the gamut of all expected applications. These are divided into two main categories, namely videophone and video teleconferencing. Therefore, most selected test sequences must depict scenes which are likely to occur during these applications. While videophone service can practically always be accommodated by a limited quality transmission channel, a video teleconference may occasionally call for the transmission of broadcast-type material (e.g. a flower garden). It may therefore be justified to include a very limited number of sequences with broadcast-type material without direct relation to teleconferencing.

It is suggested that the content of the test tape be divided as follows.

Videophone	20-25%
Teleconference	65-70%
Broadcast	10%

Any material used strictly for objective tests would be additional.