

COMMITTEE T1
CONTRIBUTION

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STANDARDS PROJECT: Analog Interface Performance Specifications for Digital Video
Teleconferencing/Video Telephony Service

TITLE: VTC Hypothetical Reference Circuit Video Bit Rate Tabulation

ISSUE ADDRESSED: Objective Measures

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1. Introduction

The bit rate is mentioned in section 2 of the VTC Data Analysis Plan (T1A1.5/93-163) as a third category of objective tests that could be performed on the 25 Hypothetical Reference Circuits (HRCs). This contribution tabulates the bit rates for the 25 HRCs and recommends that the total bit rate (audio plus video) be used for the data analysis..

2. Results and Recommendations

Table 1 is reproduced from the applicable columns of the Hypothetical Reference Circuits table in Appendix D of the Subjective Test Plan (T1A1.5/93-015 R5). Technically, only the video bit rate should be used as the quality metric. However, the video bit rate by itself is not available for the proprietary systems (HRC 3-10). For this reason, the bit rate parameter that should be used for data analysis is the total bit rate (audio and video) shown in Table 1.

Table 1: HRC Bit Rates

HRC	Total (Kbps)	Audio (Kbps)	Video (Kbps)
1	N/A	N/A	N/A
2	N/A	N/A	N/A
3	45000	-	-
4	128	-	-
5	336	-	-
6	112	-	-
7	384	-	-
8	768	-	-
9	768	-	-
10	1536	-	-
11	128	56	70.4
12	128	56	70.4
13	168	48	118.4
14	384	56	326.4
15	112	48	62.4

Table 1: HRC Bit Rates (Continued)

HRC	Total (Kbps)	Audio (Kbps)	Video (Kbps)
16	128	56	70.4
17	128	48	78.4
18	168	48	118.4
19	256	56	190.4
20	384	56	326.4
21	384	56	326.4
22	768	56	710.4
23	768	56	710.4
24	1536	56	1478.4
25	1536	56	1478.4