

CCITT SGXV
Working Party XV/1
Specialist Group on Coding for Visual Telephony

Source: Delta Information Systems
Title: Test Signal Generator

At the Specialist's Group Meeting in September, 1988, Delta submitted a plan for a "Conformance Checker" to verify the performance of video decoders manufactured according to CCITT Recommendations H.261 for N x 384 Kbps and the following Recommendation for M x 64 Kbps. The design of the Tester was based upon the Personal Computer (PC/AT).

At the September meeting it was agreed to redirect the N x 384 and M x 64 activities toward a single P x 64 Kbps standard. It was also stressed that the schedule for the development of Flexible hardware for the new P x 64 Kbps equipment will be very ambitious. For these reasons Delta has redefined the PC "Conformance Checker" to be a "Test Signal Generator" similar in design to that which Delta provided for testing the earlier N x 384 Kbps flexible hardware. The technical characteristics of the earlier N x 384 Kbps tester and the proposed P x 64 Kbps tester are included in Table 1.

TABLE 1

	<u>Earlier N x 384 Kbps</u>	<u>Proposed P x 64 Kbps</u>
Number of Pictures in Sequence	139	398
Service Channel Multiframes	29	83
Sequence duration (sec.)	4.64	13.28
Picture Rate	29.9569	29.96988 (within tolerance 29.97 + 50 PPM)
Bytes in Sequence	227,720	106,240
Test Scenes	o Artificial Signals - Moving Edge - Reversing Bars - Detail Block - Color Bars - Gray Bars	o Artificial signals - same o Natural Scene having a duration of 13.28 sec.
Transmissions Bit Rate	384 Kbps	64/Kbps
Format of the Transmitted Signal	ISDN Primary Access Rate -1.544 mbps -2.048 mbps	SAME