



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

J.23

TELEVISION AND SOUND TRANSMISSION

PERFORMANCE CHARACTERISTICS OF 7 kHz TYPE (NARROW BANDWIDTH) SOUND - PROGRAMME CIRCUITS

ITU-T Recommendation J.23

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation J.23 was published in Fascicle III.6 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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Recommendation J.23

PERFORMANCE CHARACTERISTICS OF 7 kHz TYPE (NARROW-BANDWIDTH) SOUND-PROGRAMME CIRCUITS^{1), 2), 3), 4)}

Circuits of medium quality for monophonic transmission

(amended at Geneva, 1980 and at Melbourne, 1988)

The CCITT,

considering

- (a) that it is necessary to set transmission standards for sound-programme circuits;
- (b) that quality requirements for the hypothetical reference circuit are established for analogue sound programmes;
- (c) that advantage should be taken of the technical evolution made possible by the introduction of digital techniques, particularly for mixed analogue and digital circuits,

recommends

that, with due regard to the application constraints, equipment for new circuits shall meet the requirements laid out below.

1 Application

The Recommendation applies to homogeneous analogue or mixed analogue-and-digital circuits.

The requirements below apply to the hypothetical reference circuit (HRC) defined in Recommendation J.11.

For estimation of the performance of circuits shorter or longer than the HRC, see CCIR Recommendation 605.

Note 1 – For all-digital circuits a separate Recommendation might be envisaged after further study.

Note 2 – For further work, CCIR Report 496 may be consulted. This Report also draws attention to certain differences between CCIR and OIRT Recommendations.

2 Interface characteristics

2.1 Test conditions

When circuit performance is to be measured, the system output shall be terminated by a balanced test load, nominally 600 Ω resistive.

2.2 Impedance

System input impedance	600 Ω , balanced ⁵⁾
System output impedance, provisionally	Low, balanced

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- 1) This Recommendation corresponds to CCIR Recommendation 503. CCIR has agreed, at its XVIth Plenary Assembly, Dubrovnik, 1986, that CCIR Recommendation 504-2 will not be published in the next CCIR book.
 - 2) For the definition of absolute power, relative power and noise levels, see CCIR Recommendation 574.
 - 3) Sound-programme circuits of the 5 kHz type are widely used in North America.
 - 4) 6.4 kHz-type narrow bandwidth sound-programme circuits are still being used in some countries.
 - 5) The tolerance, permitted reactance and degree of unbalance need further study.