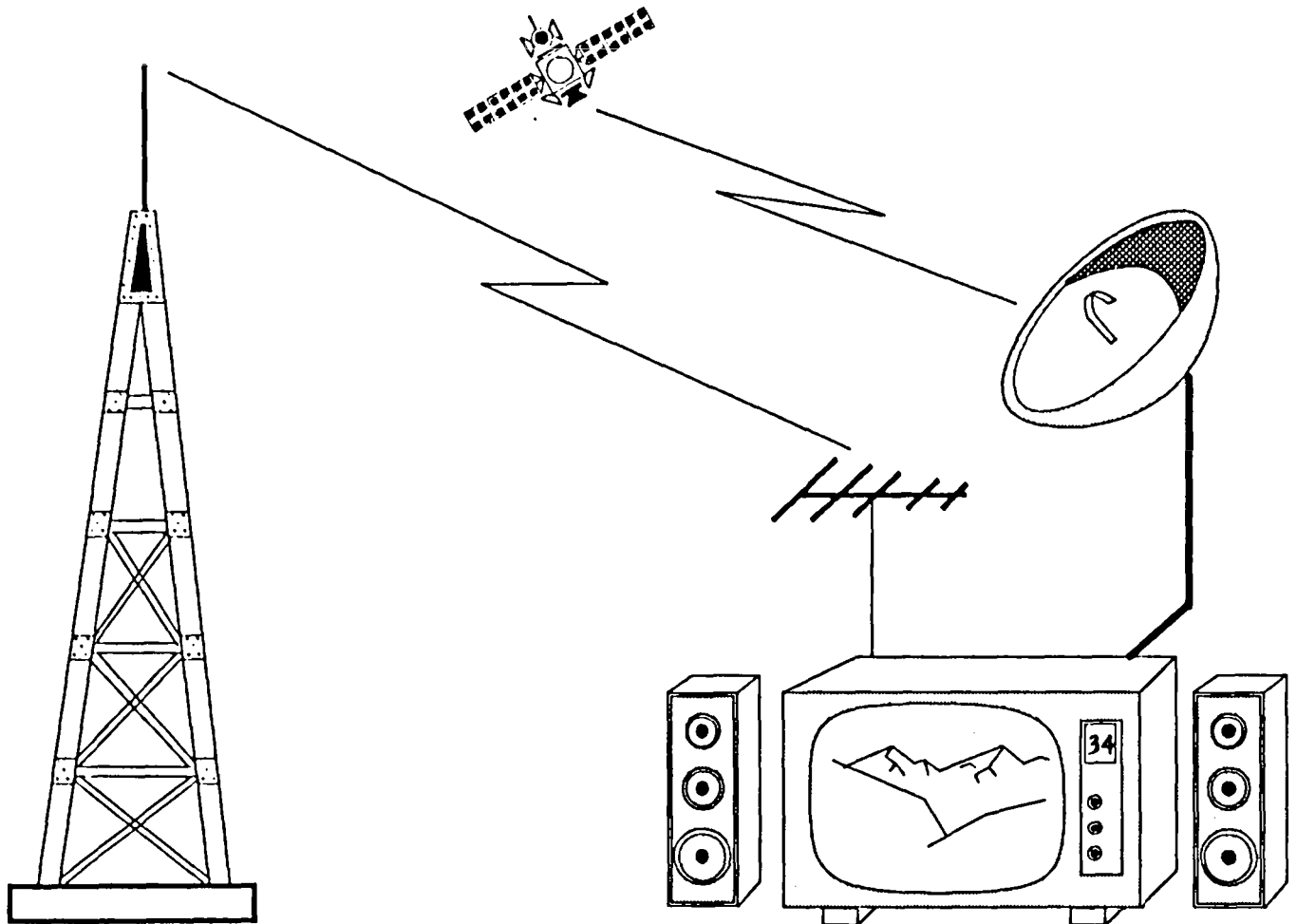




INTERNATIONAL TELECOMMUNICATION UNION

1992 - CCIR RECOMMENDATIONS

(New and revised as of 15 September 1992)



RBT SERIES

BROADCASTING SERVICE

(TELEVISION)



INTERNATIONAL RADIO CONSULTATIVE COMMITTEE

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Recommendation 811 (1992)

The subjective assessment of enhanced PAL and SECAM systems

Extract from the publication:

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(ITU) للاتصالات الدولي الاتحاد في والمحفوظات المكتبة قسم أجراه الضوئي بالمسح تصوير نتاج (PDF) الإلكترونية النسخة هذه والمحفوظات المكتبة قسم في المتوفرة الوثائق ضمن أصلية ورقية وثيقة من نقلاً

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RECOMMENDATION 811

THE SUBJECTIVE ASSESSMENT OF ENHANCED PAL AND SECAM SYSTEMS

(Question 51/11)

(1992)

The CCIR,

considering

- a) that many proposals for improving the quality of PAL and SECAM systems are under discussion, some of which concern only the receiver (e.g. doubling of the frame-rate) while others involve a considerable change of the emission system;
- b) that for enhanced PAL and SECAM emission formats, separate evaluations will be necessary for the enhanced picture and for the compatible picture;
- c) that there will be a need to evaluate, for both the enhanced and compatible picture, the following:
 - basic picture quality;
 - failure characteristics;
 - echo behaviour; and
 - susceptibility to interference,

recommends

1. that for the evaluation of basic picture quality for enhanced PAL and SECAM emission systems, the double-stimulus continuous quality scale method is recommended for both kinds of assessments (enhanced and compatible pictures) (see Recommendation 500).

As a reference it is recommended to use:

- a 4:2:2 picture with an aspect ratio of 16:9 for the enhanced picture;
- a full-screen PAL or SECAM picture for the compatible picture, if necessary produced by a pan-and-scan technique.

Test sequences should be critical but not unduly so with respect to the intended enhancements and possible degradations mentioned above. The increasing use of computer graphics and video effects should also be taken into consideration. Some sequences should include fine detailed structures and edges, which could cause cross effects in the PAL or SECAM formats. Still and moving picture sequences are required;

2. that for the evaluation of failure characteristics, echo behaviour and interference behaviour, the double-stimulus impairment scale method (Recommendation 500) should be used for the tests of the enhanced and the compatible picture. It is recommended to use the source references as in § 1 above;

3. that the quality and processing capabilities of the production format used as a source for the enhanced PAL or SECAM pictures should also be evaluated.
