



SLOVENSKI STANDARD SIST ETS 300 732 E1:2003

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Televizijski sistemi – Izboljšana televizija PAL/SECAM s 625 vrsticami – Signali reference za dušenje parazitnih slik (GCR)

Television systems; Enhanced 625-line PAL/SECAM television; Ghost Cancellation Reference (GCR) signals

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Joint Technical Committee (JTC) of the European Broadcasting Union (EBU), Comité Européen de Normalisation ELECtrotechnique (CENELEC) and the European Telecommunications Standards Institute (ETSI).

NOTE: The EBU/ETSI JTC was established in 1990 to co-ordinate the drafting of ETSs in the specific field of broadcasting and related fields. Since 1995 the JTC became a tripartite body by including in the Memorandum of Understanding also CENELEC, which is responsible for the standardization of radio and television receivers. The EBU is a professional association of broadcasting organizations whose work includes the co-ordination of its Members' activities in the technical, legal, programme-making and programme-exchange domains. The EBU has Active Members in about 60 countries in the European Broadcasting Area; its headquarters is in Geneva *.

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1 Scope

This European Telecommunication Standard (ETS) is applicable to 625-line PAL/SECAM systems B, G, H, I, L, D and K broadcast on the VHF / UHF terrestrial networks, including their distribution on cable networks.

It specifies reference signals that may be inserted into the vertical blanking interval of the baseband video signal prior to transmission, and the way of incorporating these reference signals into the television system. These reference signals are intended for use by appropriately equipped television receivers to reduce or eliminate the effects of multi-path reception on displayed pictures and, in addition, to improve the eye-height of received teletext data so as to reduce the likelihood of errors in teletext decoding.

This ETS specifies the waveform inserted into the baseband video signal, at the point of insertion.

2 Normative reference

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1] ITU-R Recommendation BT.470: "Television Systems".

3 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

GCR	Ghost Cancellation Reference
MACP	Motion Adaptive Colour Plus
PAL	Phased Alternate Line
SECAM	Sequentielle Couleur Avec Mémoire (French colour-TV system)

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4 Ghost Cancellation Reference (GCR) signal

4.1 GCR waveform

The GCR waveform shall be derived according to the formula given in annex A.

The GCR waveform shall be placed on a pedestal of amplitude V1, as indicated in figure 1, using the parameters listed in table 1.

4.1.1 GCR amplitude

The maximum peak-to-peak amplitude of the GCR signal at the point of insertion into the television signal shall be: 700 mV + 0 / - 70 mV.

NOTE: The maximum peak-to-peak amplitude of the GCR signal is reached only at the high frequency end of its energy spectrum.

The amplitude of the GCR shall have a frame-to-frame consistency within 5 mV peak-to-peak.

4.1.2 GCR pedestal

The pedestal amplitude with respect to black level shall be the mean of the nominal values V2 and V3:

$$V1 = \frac{(V2 + V3)}{2} \text{ mV.}$$

NOTE: The nominal pedestal amplitude equates to 350 mV.