

TRC 61
ISSUE 1

**TELECOMMUNICATIONS
REGULATION CIRCULAR**

**TECHNICAL REQUIREMENTS
FOR TELEVISION
RECEIVER INTERFACE
DEVICES**

RELEASE DATE :
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TELECOMMUNICATION REGULATORY SERVICE

CRT 61
1^{re} ÉDITION

**CIRCULAIRE DE LA
RÉGLEMENTATION DES
TÉLÉCOMMUNICATIONS**

**EXIGENCES TECHNIQUES
RELATIVES AUX DISPOSITIFS
SE RACCORDANT À UN
TÉLÉVISEUR**

DATE DE PUBLICATION :
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SERVICE DE LA RÉGLEMENTATION
DES TÉLÉCOMMUNICATIONS

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INTERFACE DEVICES

Introduction

Under Section 6(1)(b)(i) of the Radio Act, the Department intends to introduce regulations concerning the sale of a certain class of apparatus designated as television receiver interface devices. These devices produce a video modulated radio frequency carrier and feed the modulated energy to the antenna terminals of a television receiver. This Telecommunications Regulation Circular (TRC) is intended to inform manufacturers, distributors, retailers, as well as the general public of the technical standards and technical acceptance procedure which the Department intends to introduce for this class of apparatus.

Technical Requirements

Radiated Field Strength

The field strength of any emission emanating from the device, when measured at a distance of 3 metres shall not exceed:

- (A) 100 $\mu\text{V/m}$ in the frequency range from 30 MHz and below 88 MHz.
- (B) 150 $\mu\text{V/m}$ in the frequency range from 88 MHz to 216 MHz.
- (C) 200 $\mu\text{V/m}$ in the frequency range above 216 MHz and below 1000 MHz.

Line-Conducted Interference

The voltage of any RF signal measured between each power line and ground at the power terminals of the device shall not exceed 250 microvolts at any frequency between 450 kHz and 30 MHz, inclusive, when measured in accordance with IEEE Standard 213.

Transfer Switch

The device shall be equipped with a transfer switch for connecting the antenna terminals of the television receiver selectively to either the output terminals of the television receiver interface device or the receiving antenna. In either position of the transfer switch, the maximum voltage of any signal

appearing at the receiving antenna terminals of the switch shall not exceed $0.346 \sqrt{Z}$ microvolts, where Z is the rated impedance of the antenna. The maximum voltage corresponds to peak envelope power of the video modulated signal during maximum amplitude peaks across an impedance of Z ohms.

Technical Acceptance Procedure

Those seeking to establish the technical acceptability of apparatus of the class described in this TRC, shall ensure that the apparatus or a production sample or other representative unit of that type of apparatus is tested in accordance with accepted engineering technical requirements described herein. For devices which have been established to be technically acceptable for use in Canada, manufacturers or importers shall ensure that each unit of a type offered for sale by him bears, in a location convenient for inspection, a permanent label or marking containing, in both official languages, the statement, "Complies with Department of Communications TRC 61" and "En conformité avec le Circulaire du Ministère des Communications CRT 61".

Comments on these recommended Standards would be welcomed by the Department.



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