

ANSI/CEA Standard

TV Receiving Antenna Performance Presentation and Measurement

ANSI/CEA-774-B

February 2009



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Consumer Electronics Association
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(Formulated under the cognizance of the CEA's **R5 Antennas Committee**.)

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FOREWORD

This standard was developed under the auspices of the Consumer Electronics Association (CEA) R5 Antenna Systems Committee. It replaces CEA-774-A, which replaced EIA/CEA-774 (re-designated CEA-774 in 2003), which replaced RETMA-141-A.

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TV Receiving Antenna Performance Presentation and Measurement

1 Scope

This standard defines test and measurement procedures for use by manufacturers of television receive antennas who wish to categorize their antennas in accordance with CEA-2028-A, *Color Codes for Outdoor TV Receiving Antennas*, for use with the CEA TV Antenna Selector Program www.AntennaWeb.org. Essential elements include procedures to determine antenna gain, front-to-back ratio, average gain to null ratio, directivity and distortion performance of active antennas with integrated amplifiers.

2 References

2.1 Normative References

The following standards contain provisions that, through reference in this text, constitute normative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed here.

2.1.1 Normative Reference List

There are no normative references.

2.2 Informative References

The following standards contain provisions that, through reference in this text, constitute informative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed here.

2.2.1 Informative Reference List

- ANSI/CEA-909-A, *Antenna Control Interface*, December 2007
- CEA-2028-A, *Color Codes for Outdoor TV Receiving Antennas*, December, 2008
- IEEE 149-1979, *Standard Test Procedures for Antennas*, 1979 (Reaffirmed 2003)