



International Standard

ISO 7176-21

Wheelchairs —

Part 21:

**Requirements and test methods for
electromagnetic compatibility of
electrically powered wheelchairs
and scooters, and battery chargers**

Fauteuils roulants —

*Partie 21: Exigences et méthodes d'essai pour la compatibilité des
fauteuils roulants électriques et scooters motorisés*

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Foreword

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This document was prepared by Technical Committee ISO/TC 173, *Assistive products*, Subcommittee SC 1, *Wheelchairs*.

This third edition cancels and replaces the second edition (ISO 7176-21:2009), which has been technically revised.

The main changes are as follows:

- specification of immunity test levels according to the environments of intended use, categorized according to locations that are harmonized with IEC 60601-1-2;
- specification of tests and test levels to improve the safety of electrically powered wheelchairs and scooters, and battery chargers when portable RF communications equipment is used closer to the electrically powered wheelchairs and scooters, and battery chargers (based on the immunity test levels that were specified in IEC 60601-1-2:2014;
- addition of guidance on the maximum permissible change in steering servo position for various sized wheels;
- addition of guidance on determining maximum level of disturbances of actuators for powered wheelchairs and scooters.

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