

ISO/DTS 19206-9

ISO/~~TC22/SC33/WG16~~TC 22/SC 38

~~Date: 2025-01-31~~

Secretariat: ~~SIS DIN~~

Date: 2025-04-25

**Road vehicles. — Test devices for target vehicles, vulnerable road users and other objects, for assessment of active safety functions —  
Part 9: Requirements for small child targets —**

**Part 9:**  
**Requirements for small child targets**

~~Véhicules routiers. — Dispositifs d'essai pour véhicules cibles, usagers de la route vulnérables et autres objets, pour l'évaluation de fonctions de sécurité active — Partie 9: Exigences pour cibles d'enfants —~~

ISO/DTS 19206-9

<https://standards.iteh.ai/catalog/standards/iso/cb4dce51-d6a3-4e92-a88f-854a63257e4b/iso-dts-19206-9>

**DTS stage**

**Warning for WDs and CDs**

This document is not an ISO International Standard. It is distributed for review and comment. It is subject to change without notice and may not be referred to as an International Standard.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Partie 9: Exigences pour cibles de petits enfants

**ISO/DTS 19206-9:[\(en\)](#)**

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
[Email](mailto:copyright@iso.org): [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

**iTeh Standards**  
**(<https://standards.iteh.ai>)**  
**Document Preview**

[ISO/DTS 19206-9](#)

<https://standards.iteh.ai/catalog/standards/iso/cb4dce51-d6a3-4e92-a88f-854a63257e4b/iso-dts-19206-9>

Contents

Foreword.....	v
Introduction.....	vi
1 Scope.....	1
2 Normative references .....	1
3 Terms and definitions.....	1
4 Symbols and abbreviated terms .....	2
5 Small child target specifications.....	2
5.1 General.....	2
5.2 Infant target dimensions.....	3
5.3 Toddler target dimensions.....	3
5.4 Postures.....	3
5.5 Repairability .....	3
5.6 Environmental conditions.....	3
6 Small child target response to sensing technologies .....	3
6.1 General.....	3
6.2 Optical requirements .....	4
6.3 Radar requirements .....	4
6.4 Ultrasonic (US) requirements .....	5
6.5 Calibration and verification.....	6
7 Functional requirements for small child target .....	6
Annex A (normative) Small child target dimensions and postures.....	7
Annex B (normative) Measurement of ultrasonic (US) properties .....	12
Annex C (normative) Small child target RCS properties.....	25
Bibliography .....	38
Foreword.....	iv
Introduction.....	v
1 Scope.....	1
2 Normative references .....	1
3 Terms and definitions.....	1
4 Symbols and abbreviated terms .....	2
5 Small child target specifications.....	2
5.1 General.....	2
5.2 Infant target dimensions.....	2
5.3 Toddler target dimensions.....	3
5.4 Postures.....	3
5.5 Repairability .....	3
5.6 Environmental conditions.....	3
6 Small child target response to sensing technologies .....	3
6.1 General.....	3
6.2 Optical requirements .....	3
6.2.1 General.....	3

6.2.2 Visual requirements ..... 3

6.2.3 Near Infrared (NIR) requirements ..... 4

6.2.4 Reference measurements ..... 4

6.3 Radar requirements ..... 4

6.3.1 General ..... 4

6.3.2 Reference measurements ..... 4

6.3.3 Radar cross section measurement of small child target ..... 4

6.4 Ultra-sonic requirements ..... 4

6.4.1 General ..... 4

6.4.2 Reference measurements ..... 4

6.4.3 UCS boundaries of the SCT ..... 4

6.4.4 Verification of UCS boundaries ..... 5

6.5 Calibration and verification ..... 5

7 Functional requirements for small child target ..... 5

Annex A (normative) Small child target dimensions and postures ..... 6

Annex B (normative) Measurement of ultrasonic (US) properties ..... 10

Annex C (normative) Small child target RCS properties ..... 19

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[ISO/DTS 19206-9](#)

<https://standards.iteh.ai/catalog/standards/iso/cb4dce51-d6a3-4e92-a88f-854a63257e4b/iso-dts-19206-9>

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 33, *Vehicle dynamics and chassis components*, Working Group WG 16, *Active safety test equipment and driving automation systems testing*.

A list of all parts in the ISO 19206 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

~~ADAS (Advanced Driver Assistance Systems)~~driver assistance systems (ADAS) and ~~Active Safety~~active safety systems are designed to support decision-making for the driver, extend the driver's awareness of the traffic situation with advanced warnings, improve the behaviour of the vehicle, and even take over vehicle control in an emergency situation. The goal is to completely avoid an accident or at least reduce the severity of an accident.

The ISO 19206 series addresses the specification of test target objects for traffic scenarios representing vehicles, vulnerable road users and other objects in the path of the subject vehicle. This document addresses the specification of test targets for small children as a supplement to ISO 19206-2, where targets for an adult and a seven-year-old child are specified.

Small child test targets (SCT) represent two different sizes for testing of different functions to evaluate their performance. Current test procedures only address stationary SCT, and consequently this document only addresses the stationary SCT without movement by a target carrier.

~~The~~ SCT described in this document series can be used for system development or applied in conjunction with existing standards, or standards under development, for assessment of active safety systems and ~~Automated Driving Systems~~automated driving systems (ADS).

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

ISO/DTS 19206-9

<https://standards.iteh.ai/catalog/standards/iso/cb4dce51-d6a3-4e92-a88f-854a63257e4b/iso-dts-19206-9>