

# ISO 8202:2025-09 (E)

## Road vehicles - Box task and detection response task to measure visual-manual and cognitive demand

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Application of the box task (BT) and detection response task (DRT) .....	4
5	Measurement setup .....	4
5.1	Overview .....	4
5.2	Box task equipment .....	5
5.2.1	Display of visual driving scene .....	5
5.2.2	Steering wheel and gas pedal .....	5
5.2.3	Standard dynamics of driving scene .....	5
5.2.4	Experimental guidance on BT difficulty .....	6
5.2.5	Measurement recordings .....	6
5.3	DRT equipment .....	7
5.4	Documentation of setup .....	7
6	Procedure .....	7
6.1	Overview .....	7
6.2	Participants .....	7
6.3	Instructions .....	7
6.4	Training procedure .....	8
6.5	Dual-task conditions .....	8
6.6	Baseline runs .....	8
6.7	Calculation of performance metrics .....	8
6.7.1	Calculation of box task metrics .....	8
6.7.2	Calculation of DRT metrics .....	8
6.8	Analysing and interpreting differences between dual-task conditions .....	8
Annex A (informative)	Determination of angles of steering wheel and gas pedal deflection using their own sensors .....	10
Bibliography .....		11