

ISO 8202:2025-09 (E)

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

Contents		Page
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