

Perceptual-Motor Coordination Assessments



Senaptec Sensory Station

Assessment	Description	Procedures	Units
Visual Clarity	How well can participant see distant details	Swipe in the direction of the opening in the C-shaped ring	LogMAR (Lower is better)
Contrast Sensitivity	How well can participant judge contrast differences	Swipe in the direction of the circle containing a pattern of rings	LogCS (Higher is better)
Depth Perception	How well can participant judge depth and distance	With 3D glasses on, swipe in the direction of the ring that appears closest	Arcsec (Lower is better)
Near-Far Quickness	How rapidly and accurately participant can shift their gaze between near and far	Swipe in the direction of the opening in the C-shaped ring as it	Number correct (Higher is better)

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		alternates between tablet and remote display	
Perception Span	Tests scope of participant's visual field and how well visual information is acquired	Replicate the pattern of dots flashed in the circles within the grid	Total score (Higher is better)
Multiple-Object Tracking	How well participant can divide attention between moving objects and track them at various speeds	Select the dots that flashed red at the beginning of the tests once they are done rotating	Composite score (Higher is better)
Reaction Time	How rapidly participant can react in response to a visual stimulus	Remove the required index finger when the pattern turns red as quickly as possible	Msec (Lower is better)
Target Capture	How quickly participant can shift their gaze and recognize a target in their periphery	Track the C-shaped ring as it appears in different corners of the screen and swipe in the direction of the opening	Msec (Lower is better)
Eye-Hand Coordination	How rapidly and accurately participant can respond to changing target	Touch the green dots that appear within the grid as quickly as possible	Msec (Lower is better)
Go/No-Go	How rapidly and accurately participant can decide about a target and respond to changes	Touch the green dots that appear within the grid as quickly as possible while not touching the red dots	Total score (Higher is better)

Abbreviations: LogMAR = Logarithm of the Minimum Angle of Resolution; LogCS = Logarithm of Contrast Sensitivity; Arcsec = Arcsecond; Msec = Millisecond

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Lower Extremity Visuomotor Coordination



Set-up and completion of the lower extremity perceptual-motor coordination task with the left limb as the active limb and the right limb as the stabilizing limb. Participants were instructed to deactivate the randomly illuminated lights by tapping the disc with their foot as quickly as possible.