

주시대상의 운동방향에 따른 안구의 추종운동과 인지능력

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ABSTRACT

The purpose of this research is to prove pursuit eye movement and recognition in direction of motion of gazing object. As limited condition, this research was executed based on the velocity of motion of gazing object, which are 5 deg/sec, 15 deg/sec, and 25 deg/sec (n=16). The remaining duration of the response object was limited by 150 msec and 300 msec. For the efficient analysis of the directional characteristics, it was analyzed by division with 8 directions and 45°interval. With the preceding research which appears with the fact that eye movement is quicker hand weaving direction than generally from saccadic movement there is it will be able to discover the tendency which is similar. It was possible to get the pattern which is identical with the research regarding mouth response rate it follows in direction of Whisenand(1999). From this research, it showed the fact that there was change in ability of recognition in motion direction of the object, though difference of distinctive respondent accurate wasn't discovered in direction. It showed a result that the recognition quicker on the horizontal movement of the object than vertical movement. Also, continuous duration of a stimulus and moving velocity of the object was showing an effect. When tracking the object which it moves, saccadic movements were discovered more when it moves vertically than horizontally.

Keywords : pursuit eye movement, recognition, direction of motion, gazing object