**Condition for each stimulus**

|  |  |  |
| --- | --- | --- |
| **Stimuli** | **Diagram** | **Description** |
| Resting-state close eyes | - | 30 seconds while the subject only close eyes |
| Resting-state open eyes | - | 30 seconds for binocular and monocular vision with open eyes. |
| Vernier acuity |  | All stimuli alternated between two states at a rate of 3.75 Hz. For the swept paradigm, the size of the displacements of Vernier offset ranged from 2 to 30 cycles per degree (cpd) in logarithmic steps over a period of 10 s. The experiment was made for binocular and monocular vision.  (2, 3, 4.7, 7.5, 12, 18.75, 30). Stimuli set in open Designer.  Total time of stimulation: |
| Contrast sensitivity |  |  |
| Motion perception |  | 120 dots |
| Visual field |  |  |
| Form detection | D:\UDEA-MAESTRIA\Proyecto\Codigos estimulos\Formas\0\5.pngD:\UDEA-MAESTRIA\Proyecto\Codigos estimulos\Formas\0\6.pngD:\UDEA-MAESTRIA\Proyecto\Codigos estimulos\Formas\0\4.png |  |
| Reading words | FAMILIA  CASA  ES |  |
| Color detection |  |  |
| Complex image | D:\UDEA-MAESTRIA\Proyecto\Codigos estimulos\Imagenes\1\9.JPGD:\UDEA-MAESTRIA\Proyecto\Codigos estimulos\Imagenes\1\7.jpgD:\UDEA-MAESTRIA\Proyecto\Codigos estimulos\Imagenes\1\4.jpg |  |

**Result for power analysis**

TABLE I

p-value in Mauchly's Sphericity Test for each stimulus (S), Factor for frequency band (F) and type of vision (B ,L and R) for group 1.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group 1** | | | | | | | | | | | | | |
| **S** | **F** | **EC vs EO** | | | **EC vs S** | | | **EO vs S** | | | **P-value** | | |
| **B** | **L** | **R** | **B** | **L** | **R** | **B** | **L** | **R** | **B** | **L** | **R** |
| Vernier acuity | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.78 | 0.19 | 0.05 |
| θ | \* | \* | \* | \* | \* | \* | \* | \* | \* | 0.50 | 0.48 | 0.54 |
| α | \* | \* | \* | \* | \* | \* |  | \* |  | 0.26 | 0.06 | 0.00 |
| β |  |  |  |  |  |  |  |  |  | 0.03 | 0.00 | 0.00 |
| Contrast sensitivity | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.86 | 0.73 | 0.34 |
| θ | \* | \* | \* | \* | \* | \* | \* | \* | \* | 0.10 | 0.07 | 0.94 |
| α | \* | \* | \* | \* | \* | \* | \* |  |  | 0.08 | 0.06 | 0.01 |
| β |  |  |  |  |  |  |  |  |  | 0.05 | 0.00 | 0.00 |
| Visual field | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.07 | 0.59 | 0.62 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.07 | 0.08 | 0.18 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.10 | 0.02 | 0.05 |
| β |  |  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 |
| Motio perception (RDKs) | δ | \* | \* | \* | \* | \* | \* | \* |  |  | 0.63 | 0.50 | 0.29 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.26 | 0.10 | 0.17 |
| α | \* | \* | \* | \* | \* | \* | \* | \* |  | 0.39 | 0.13 | 0.01 |
| β |  |  |  |  |  |  |  |  |  | 0.01 | 0.05 | 0.00 |
| Motio perception (Square) | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.04 | 0.20 | 0.05 |
| θ | \* | \* | \* | \* | \* | \* | \* | \* |  | 0.18 | 0.28 | 0.41 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.13 | 0.01 | 0.06 |
| β |  |  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.07 |
| Form recognition | δ | \* | \* | \* | \* | \* | \* | \* | \* | \* | 0.16 | 0.16 | 0.26 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.37 | 0.77 | 0.09 |
| α | \* | \* | \* | \* | \* | \* |  | \* |  | 0.26 | 0.34 | 0.00 |
| β |  |  |  |  |  |  |  |  |  | 0.03 | 0.05 | 0.05 |
| Read words | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.60 | 0.92 | 0.22 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.69 | 0.44 | 0.02 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.08 | 0.43 | 0.00 |
| β |  |  |  |  |  |  |  |  |  | 0.03 | 0.06 | 0.06 |
| Color detection | δ | \* | \* | \* | \* | \* | \* |  | \* | \* | 0.45 | 0.22 | 0.07 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.49 | 0.15 | 0.24 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.65 | 0.14 | 0.09 |
| β |  |  |  |  |  |  |  |  |  | 0.07 | 0.06 | 0.04 |
| Image description | δ | \* | \* | \* | \* | \* | \* | \* | \* | \* | 0.08 | 0.29 | 0.80 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.33 | 0.81 | 0.52 |
| α | \* | \* | \* | \* | \* | \* | \* | \* | \* | 0.27 | 0.26 | 0.01 |
| β |  |  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.13 |

TABLE II

p-value in Mauchly's Sphericity Test for each stimulus (S), Factor for frequency band (F) and type of vision (B ,L and R) for group 2.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group 2** | | | | | | | | | | | | | |
| **S** | **F** | **EC vs EO** | | | **EC vs S** | | | **EO vs S** | | | **P-value** | | |
| **B** | **L** | **R** | **B** | **L** | **R** | **B** | **L** | **R** | **B** | **L** | **R** |
| Vernier acuity | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.39 | 0.98 | 0.81 |
| θ | \* | \* | \* | \* | \* | \* | \* | \* | \* | 0.02 | 0.61 | 0.74 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.16 | 0.42 | 0.33 |
| β |  |  |  |  |  |  |  |  |  | 0.00 | 0.20 | 0.05 |
| Contrast sensitivity | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.90 | 0.72 | 0.83 |
| θ | \* | \* | \* | \* | \* | \* | \* | \* | \* | 0.28 | 0.66 | 0.36 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.33 | 0.46 | 0.42 |
| β |  |  |  | \* | \* | \* |  |  |  | 0.25 | 0.56 | 0.08 |
| Visual field | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.88 | 0.11 | 0.73 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.44 | 0.14 | 0.50 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.98 | 0.22 | 0.36 |
| β |  |  | \* | \* |  | \* |  |  |  | 0.98 | 0.06 | 0.23 |
| Motio perception (RDKs) | δ | \* | \* | \* | \* | \* | \* | \* | \* |  | 0.89 | 0.70 | 0.82 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.42 | 0.62 | 0.46 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.94 | 0.83 | 0.97 |
| β | \* | \* |  | \* | \* |  |  |  |  | 0.96 | 0.58 | 0.76 |
| Motio perception (Square) | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.77 | 0.94 | 0.98 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.68 | 0.37 | 0.35 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.92 | 0.28 | 0.99 |
| β | \* |  |  | \* | \* | \* |  |  |  | 0.77 | 0.48 | 0.96 |
| Form recognition | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.35 | 0.39 | 0.39 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.74 | 0.73 | 0.99 |
| α | \* | \* | \* | \* | \* | \* |  |  | \* | 0.27 | 0.59 | 0.50 |
| β |  |  |  | \* |  | \* |  |  | \* | 0.60 | 0.37 | 0.60 |
| Read words | δ | \* | \* | \* | \* | \* | \* |  |  |  | 1.00 | 0.92 | 0.80 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.21 | 0.56 | 0.21 |
| α | \* | \* | \* | \* | \* | \* |  |  |  | 0.69 | 0.85 | 0.55 |
| β |  |  | \* | \* | \* |  |  |  |  | 0.76 | 0.79 | 0.40 |
| Color detection | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.63 | 0.46 | 0.79 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.97 | 0.91 | 0.79 |
| α | \* | \* | \* | \* | \* | \* |  |  | \* | 0.40 | 0.60 | 0.05 |
| β |  |  |  | \* | \* | \* |  | \* | \* | 0.33 | 0.77 | 0.37 |
| Image description | δ | \* | \* | \* | \* | \* | \* |  |  |  | 0.07 | 0.12 | 0.12 |
| θ | \* | \* | \* | \* | \* | \* |  |  |  | 0.84 | 0.84 | 0.74 |
| α | \* | \* | \* | \* | \* | \* | \* | \* | \* | 0.61 | 0.78 | 0.59 |
| β |  |  |  | \* | \* | \* | \* | \* | \* | 0.76 | 0.44 | 0.94 |