**Table S1.** Mean and standard error of the maximum-likelihood estimates and tested ranges of model parameters for Experiment 2 (color change detection).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **Experiment 2 estimates** | | **Tested range** | |
| **Model** | **Parameter** | **Mean** | **S.e.m.** | **Min** | **Max** |
| IL | *K* | 4.57 | 0.43 | 1 | 8 |
| *ε* | 0.229 | 0.009 | 0 | 1 |
| *G* | 0.172 | 0.005 | 0 | 0.5 |
| SA | *J*1 | 3.97 | 0.72 | 1 | 40 |
| *K* | 4.14 | 0.59 | 1 | 8 |
| *p*change | 0.591 | 0.016 | 0.2 | 0.8 |
| SR | *J*1 | 13.8 | 2.0 | 1 | 60 |
| *K* | 4.14 | 0.46 | 1 | 8 |
| *p*change | 0.574 | 0.019 | 0.2 | 0.8 |
| EP | *J*1 | 13.6 | 4.1 | 1 | 60 |
| α | -0.914 | 0.195 | -2 | 0 |
| *p*change | 0.506 | 0.008 | 0.2 | 0.8 |
| VP |  | 111 | 14.0 | 5 | 300 |
| *τ* | 163 | 35 | 5 | 300 |
| *α* | -0.471 | 0.042 | -2 | 0 |
| *p*change | 0.557 | 0.005 | 0.2 | 0.8 |