Supplementary Materials

How are unattended adapters affected over time?

Methods
We collected thresholds for 3 observers (2 of whom had participated in the original experiment) in 2 adapt durations: 300 ms and 6 sec. The 300 ms was representative of durations in the first experiment when attentional benefits were observed, and are typically observed\textsuperscript{1,2}. The 6 sec duration was representative of durations when attentional costs were observed. The methods for obtaining thresholds were similar to the first experiment, with the addition of an invalid condition. A quarter of the trials were neutral, and 3/4 of the trials were cued spatially. Of the spatial attentional cues, 2/3 were valid and 1/3 invalid. For the 6 sec condition, the ISI was extended from 100 ms to 400 ms. This ISI enabled observers to use the response cue in all three conditions (valid, invalid and neutral), thus equating the level of attention deployed to the test display. This longer ISI allowed us to measure the effect that attended and unattended conditions had on the adapter display per se.