



Square Wave Grating Paddles, Cat. No. 2533

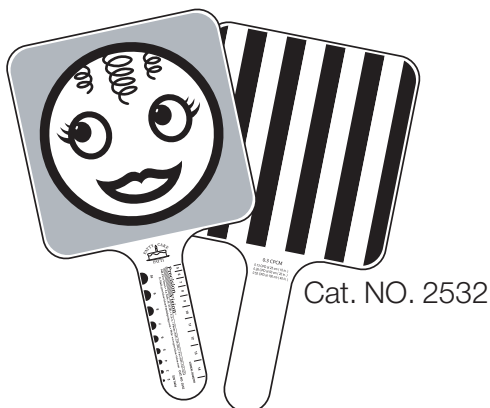
Preparation:

It is important to set up the testing area ahead of time. The area should be well lit and arranged to assure as little distraction as possible. If you are in an open space use movable barriers to hide visual distractions when possible. It is also recommended to be wearing muted colors or a lab coat to minimize distractions. If you wear makeup it is recommended that you not be wearing anything with bright or bold colors or shades. Indicate testing is in process to avoid any interruptions.

Each eye must be tested monocularly and often the most successful means of occluding is to have the parent do this for you. Whenever possible ask the parent to practice this at home so the child will be more cooperative. When using eye occluders be sure to disinfect after each use or use disposable occluders like Precision Vision's Cat. No. 3103 occluder or Cat. No. 3108 eye patches. Another option is occluder glasses with a Plano lens on one side and an occluded lens on the other, one pair for testing the right and one pair for the left eye, this works well with young children.

Start a single presentation with the face paddle for fixation then with a double presentation using the stripe paddle and the gray paddle for forced choice preferential looking toward the more interesting target. Begin with binocular testing and then move to monocular testing. If the child balks at covering the left eye to test first then do the right eye, attempt testing with the left eye first to distinguish between lack of cooperation versus inability to see well with the left eye. While testing the right eye, the left should be occluded and vice versa. Be sure the occluder is set so that the eye which is not being tested is completely covered.

Align the paddles with the gray paddle in front toward the child. As you separate the paddles, note which paddle the child follows. Begin with the larger stripe sizes. When the child no longer selects the striped paddle over the gray paddle, note the acuity on the paddle handle for that stripe size selected at a 10, 20 or 40 inch working distance. In most cases it is more important to detect a difference between the eyes rather than obtaining an absolute measurement.



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Mathematically 30 cpd (cycle per degree) is approximately equal to 20/20 therefore 3 cpd is about 20/200. However, grating detection is an easier task than symbol recognition and the two tasks do not directly correlate and Snellen equivalents although good for communication purposes are not recommended for scoring purposes. Scoring is to be done by listing the test distance and the grating detected in cpd (cycles per degree).

The table below can be used when communicating test results to parents and other non-eye care professionals.

Snellen Equivalents

Test Distance

Cycles/cm	25cm	50cm	100cm
9.6	20/140	20/70	20/35
4.8	20/275	20/140	20/70
2.4	20/550	20/275	20/140
1.2	20/1100	20/550	20/275
0.6	20/2200	20/1100	20/550
0.3	20/4400	20/2200	20/1100

Patti Stripes™ paddles are very durable and can be cleaned using any mild soap and water. If a card becomes slightly scratched in a black stripe it can often be restored with a black marker. If the damage is beyond repair contact Precision Vision to order a replacement for the damaged grating paddle.