

Bruksanvisning

**Kontrast test med lea
symboler.**

MASSVAT flip bok

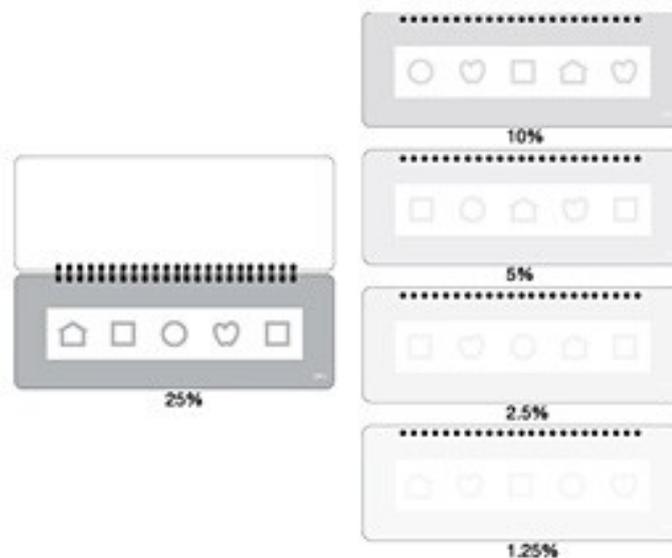
L251100 og 251200

LEA Symbols Low Contrast Test
10M Symbol Size
L251100 - L251200

In this test type the 10M size is convenient because the visual acuity as decimal visual acuity is easy to calculate: at the testing distance of 1 meter it corresponds to visual acuity 0.1 (20/200, 6/60), at 2 meters to 0.2 (20/100, 6/30), at 4 meters 0.4 (20/50, 6/15) and at 0.3 meter distance 0.03 (20/600, 6/180) covering the low contrast visual acuity range of most persons with visual problems. The Snellen fractions corresponding different decimal visual acuity values are found on [the list](#). The contrast levels of the test lines on the five pages are 25%, 10%, 5%, 2.5% and 1.25%.

The same diagram that is used when testing with the low contrast visual acuity charts, can be used for reporting of the results from testing with tests with one symbol or number size. The number of correct answers is read on the left vertical axis and the cross is placed corresponding to the distance used when testing (distance is shown on the upper border of the recording form, top scale).

Luminance variation affects the threshold values in many disorders and even in normally sighted individuals. It is difficult to arrange high enough luminance on the test, which needs to be kept vertical. In a regular room this is possible only by directing a light source toward the test. Then the amount of light falling on the test is dependent on the distance of the test from the light source. For reliable follow-up measurements, the test should be at a fixed distance from the light source. In field surveys, the variation in the results caused by variation in illumination needs to be taken into consideration.



L251100 and L251200

The surface of the low contrast charts is easily damaged. Avoid touching the white test surface. If a person needs to point with his finger at the optotype to fixate on it, use tube gauze or a white glove to cover the finger.

If the person has not seen the contrast tests before, explain that you are using a low contrast test the same four symbols that were used in the high contrast testing ("the same pictures that we just looked at and you used the names.../matched with the key card").

The number of correct answers is read on the left vertical axis and the cross is placed corresponding to the distance used when testing. In this case the result would then be 18 correct at 3m (marked M) and 23 correct at 1.6m (marked S). Line S-M-X depicts the slope of the contrast sensitivity

After having used the test for a while, you will not need the recording form any more, except for reporting your results to somebody who is not accustomed to using the test. You will have a mental image about where the threshold is located on the form. You will mark down the name of the test, the number of the correct answers and the distance at which you measured. These three numbers carry the necessary information for follow-up.

When both optotype and grating measurements are made, it is interesting to mark them on the [recording form](#) to see the relationship between the different threshold values. *The luminance of the tests needs to be kept closely equal*, otherwise the results are not comparable.

This contrast sensitivity recording form can be used to record any test results from contrast sensitivity tests. The comparison of test results from different tests is easy when they are plotted on this form. By combining results from optotype tests and grating tests the quality of the central visual field can be evaluated for low vision or occupational assessment

Decimal	Snellen fractions						MAR	LogMAR
	6m	5m	4m	3m	20ft	10ft		
0.010	6/600	5/500	4/400	3/300	20/2000	10/1000	100	2.0
0.012	6/480	5/400	4/320	3/240	20/1600	10/800	80	1.92
0.016	6/380	5/320	4/250	3/190	20/1250	10/625	63	1.8
0.020	6/300	5/250	4/200	3/150	20/1000	10/500	50	1.7
0.025	6/240	5/200	4/160	3/120	20/800	10/400	40	1.6
0.03	6/190	5/160	4/125	3/95	20/630	10/315	32	1.52
0.04	6/150	5/125	4/100	3/75	20/500	10/250	25	1.4
0.05	6/126	5/100	4/80	3/63	20/400	10/200	20	1.3
0.06	6/95	5/80	4/63	3/47	20/320	10/160	16	1.22
0.08	6/75	5/63	4/50	3/37	20/250	10/125	12.5	1.1
0.10	6/60	5/50	4/40	3/30	20/200	10/100	10.0	1.0
0.12	6/48	5/40	4/32	3/24	20/160	10/80	8.0	0.92
0.16	6/38	5/32	4/25	3/19	20/125	10/63	6.3	0.8
0.20	6/30	5/25	4/20	3/15	20/100	10/50	5.0	0.7
0.25	6/24	5/20	4/16	3/12	20/80	10/40	4.0	0.6
0.32	6/19	5/16	4/12.5	3/9	20/63	10/32	3.2	0.5
0.40	6/15	5/12.5	4/10	3/7	20/50	10/25	2.5	0.4
0.50	6/12	5/10	4/8.0	3/6	20/40	10/20	2.0	0.3
0.63	6/9.5	5/8.0	4/6.3	3/5	20/32	10/16	1.6	0.22
0.80	6/7.5	5/6.3	4/5.0	3/4	20/25	10/12.5	1.25	0.1
1.00	6/6.0	5/5.0	4/4.0	3/3	20/20	10/10	1.00	0.0
1.25	6/4.8	5/4.0	4/3.2	3/2.4	20/16	10/8.0	0.80	- 0.1
1.63	6/3.8	5/3.2	4/2.5	3/1.9	20/12.5	10/6.3	0.63	- 0.2
2.00	6/3.0	5/2.5	4/2.0	3/1.5	20/10	10/5.0	0.50	- 0.3
2.50	6/2.4	5/2.0	4/1.6	3/1.2	20/8.0	10/4.0	0.40	- 0.4

Test # 251100
symbols
read

contrast sensitivity
threshold contrast

