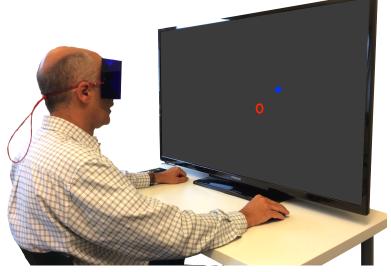
KMScreen T55 | KMScreen T65 |

Digital HESS, LEES, & HARMS Screen

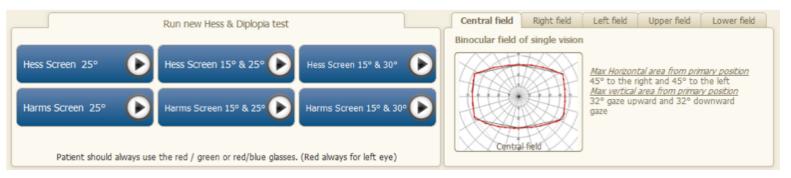


KMScreen T55 is made up of a 55 or 65 inch TV screen and a laptop computer with pre-installed software. The examiner control the program and observe and follow the test results at the laptops screen One of the major challenges in ophthalmic care is to be able to document and diagnose the various problems of binocular vision. With KMScreen, which is a digital Hess and Harms Screen, you can quickly and easily document various deviations of the extraocular muscles in a 15° internal and 25° or and 30° external field *. The test can be complemented by a diplopia test which records the deviation and the torsion between the two images in the nine cardinal positions of gaze. Together with Hess and Harm's program, there is also a program that examines the binocular field of single vision. KM Screen was developed at the Paediatric and Strabological Department of Eye Clinic, Skåne University Hospital -Sweden-(SUS). It is registered at the Swedish

authorised to be sold within the EU.

Medical Products Agency as medical equipment

* Workspace with 55 inch screen
Hess method: 15°/25° Harm method: 15°/25°/30°
* Workspace with 65 inch screen
Hess method: 15°/25°/30°
Harms method: 15°/25°/30°



Each KMScreen unit comes with three types of software. An examining eye deviation according to Hess method and according to Harms method. With the third program we can examine the binocular field of single vision.

The examination using the Harms' method

The patient keeps his eyes fixated on the center of the screen, while the examiner is turning the patient's head in the nine cardinal gaze directions.

In order to examine the upward gaze, for example, the examiner should turn the patient's head 25 degrees downwards. Meanwhile, the patient is looking at the fixation object that is always in the center of the screen. The Harms-program can simultaneously test the horizontalvertical deviation of both eyes and torsion.

Both Hess' and Harms' examinations take about 2 to 9 minutes to complete, depending how familiar the patient is with a particular program and the use of computer mouse.

The test distance is 50 cm.



Examination using the Hess' method

The patient is sitting in front of the TV screen while wearing the red-blue visor glasses and holding his/her head still.

The screen displays two objects: one of them is moving, and the other is stationary. The patient sees the moving object with one eye, and the stationary object with the other. Using a computer mouse, the patient should drag the moving object on the screen towards and over the stationary object. When objects on the screen overlap, the patient is supposed to click on the mouse.

After each click of the mouse, the fixation point is moved to a new position. The patient should continue to hold his/her head perfectly still during the whole examination. Via a secondary display the examiner can observe and follow the test results directly after each click. If necessary, the examiner can go back to the previous point / points again.

Once the patient has finished clicking at all fixation points, the result is shown as a conventional Hess screen diagram. The examiner can then perform an extra diplopia test, which investigates the vertical and horizontal deviation as well as the torsion of the double images in the 9 gaze directions.

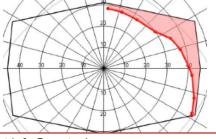
The test distance is 50 cm

Binocular field of single vision

The binocular field is divided into 24 sectors \acute{a} 15° each. Tested without the red blue visor glasses.

The patient is sitting in front of the TV screen and holding his/her head still and instructed to follow with the eyes the red ring. The caregiver stand behind the patient and, if necessary, keep the patient's head still with one hand and the wireless mouse against a smooth surface or the thigh with the other hand.

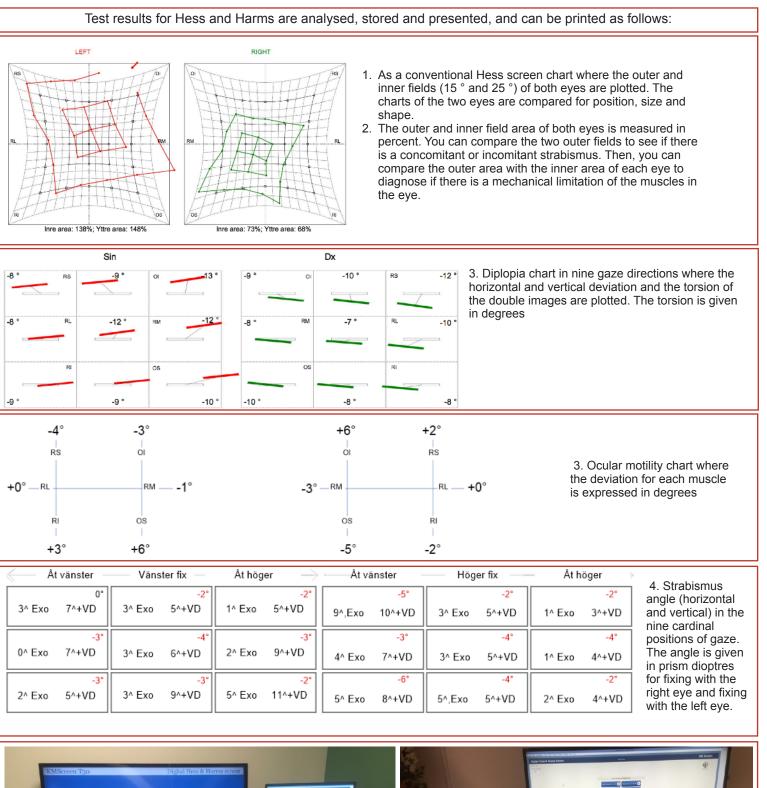
The caregiver moves slowly the red ring from the center to the periphery a sector at a time. When the patient clicks that he/she is seeing double, or we reach the end of this sector without diplopia continue to test whether there is double vision in the next sector that is located next to the one we have tested. The result appears immediately after each click on the secondary screen.



www.kmscreen.com

For more information contact us at info@syntavlor.se

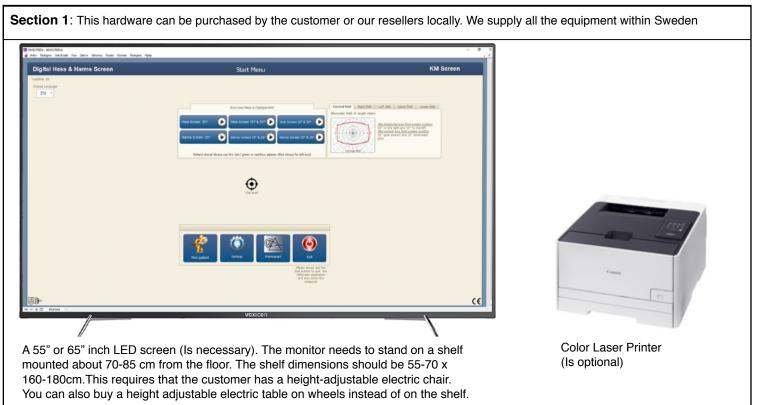
Digital HESS & HARMS Screen





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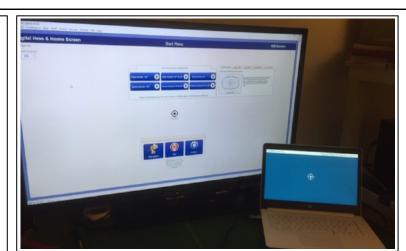
KMScreen T55 hardware components and software



Section 2: This hardware purchases customer always from us

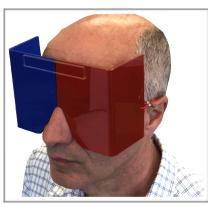


A Laptop Computer with Windows 10 and KM Screen software preinstalled. English OS Windows language. If necessary, it is possible for the customer to buy only the software and the red blue visor glass. Laptop and other hardware buy the customer locally.





HDMI cables and USB hub



Red blue visor goggles



Keyboard and two wireless mouse and a USB memory stick

Three different KMScreen workstations

