

ABSTRACT

System for integrally measuring clinical parameters of the visual function including a display unit (20) for representing a scene with a 3D object having variable characteristics such as virtual position and virtual volume of the 3D object within the scene; movement sensors (60) for detecting the user head position and distance from the display unit (20); tracking sensors (10) for detecting the user pupils position and pupillary distance; an interface (30) for the user interaction on the scene; processing means (42,44) for analysing the user response based on the data coming from sensors (60,10) and the interface (30), with the characteristics variations of the 3D object; and based on the estimation of a plurality of clinical parameters of the visual function related to binocularity, accommodation, ocular motility and visual perception.

FIG. 1