The Department of Neurophysiology of the Memory of the Academy of Sciences of the Czech Republic (UAV) has for several years been researching experiments to monitor the impact of various stages of Alzheimer's disease on patients' cognitive abilities. For this purpose, SpaNav was developed almost 9 years ago in cooperation of the UAV with the MFF UK. The system currently hits its technical limits given by possibilities of the time when it was created. The aim of this work is to introduce a new system that will remove the limits of the original system and allow research to continue.