

Concept of "Cross-active System"

Cross-active System is a modified virtual reality in which motion input of a participant provides sensory feedback to the other participant. In case of normal interactive system, a user obtains sensory feedback according to his/her own motion input. Two participants of Cross-active System experience unusual communication by dividing sensory feedback from motion input.

The installation of Cross-active System is composed of a 6 degree-of-freedom motion platform with a big screen and a micro video camera with a position sensor. A participant sits on the motion platform and the other participant holds the micro video camera. Image from the camera is displayed on the big screen. Motion of the micro video camera is tracked by the position sensor. The motion platform is driven by the data from the position sensor. Slight motion of the micro video camera causes large motion of the motion platform. The participant on the motion platform experiences 1/100 world controlled by the other participant. Required space for this installation is approximately 3m x 5m.

