

D2.4.4 Glove Prototype, fourth iteration



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AMBIENT ASSISTED LIVING

JOINT PROGRAMME

AAL-2013-6-134

1 Introduction

The forth iteration of the glove prototype will be a glove designed for a combination of therapeutic and assistive purposes and will be ready for testing the therapeutic effect on functional tasks (T4.5 in WP4) and orthotic effect during functional tasks (T4.4 in WP4).

1.1 Description of the ironHand system

The ironHand (iH) system is composed of two main parts: an assistive system and a therapeutic system (see Figure 1). The assistive system consists of an (1) SEM unit and a (2) Glove. The therapeutic system consists of a (3) Therapeutic platform, a (4) Therapeutic software and (5) optional hardware modules; these hardware modules are medically-certified devices that could add extra functionality to the therapeutic function of the iH system (e.g. an inertial motion unit to track the arm position during therapy).



FIGURE 1 THE IRONHAND SYSTEM

Figure 2 shows the ironHand Assistive system on a user.



FIGURE 2 THE IRONHAND ASSISTIVE SYSTEM (FOURTH ITERATION) ON A USER