

HDS100 HAPTIC DELIVERY SYSTEM



Replacement actuators/isolators available as **RXHDS**.

The HDS100 haptic delivery system provides tactile feedback during virtual reality experiments and includes:

- audio amplifier that connects to a computer sound card
- actuators & isolators (2 each) that vibrate based on the sound from the sound card
- interface cables: HDS100 amplifier to an existing sound card, HDS100 amplifier to actuators, and signal to HDS100 amplifier *and* speakers

Actuators are placed under chair legs or on a platform and deliver vibrations based on the VR environment (e.g. movement of elevators). Install in less than 15 minutes with no modifications to flooring or furniture required.

The system is compatible with SuperLab, E-Prime, Vizard VR Toolkit, and other presentation systems that interface the computer’s sound card.

HDS100 SPECIFICATIONS

Includes:



- **1 amplifier**
 - Drives up to four Shadow-8 (T108S) Actuators with 500 W rms (700 W peak)
 - Control-system compatible with rear-mounted IR Input
 - Included stainless steel remote control
 - Filter and gain control for limitless personalization (40-160 Hz)
 - 12 V trigger or auto on
 - Remote control presets: Movie, Music
 - Two phase settings for a perfect match with subwoofer (0 or 180 degrees)
 - Rack mountable with supplied removable ears
 - From extreme to subtle, delivers accurate and perfectly time aligned motion
 - Size 1U 4.3 cm (4.8 cm including feet) x 43 cm x 26 cm (28 cm including speaker connections)
 - Weight 9 kg (20 lbs)
- **2 linear actuators**—Patented electromagnetic motors deliver extraordinarily accurate low-frequency motion to a wide range of furnishings. These updated actuators deliver improved performance, especially when producing infrasonic frequencies (below 20 Hz). New magnet structure with a vented center pole allows air to move in and out more efficiently. The Shadow-8 also sports a new 8 ohm drive coil and an increased range of motion. Actuators are constructed with rare earth magnets and grained and anodized aluminum.
- **2 motion isolators**—These motion isolators dramatically reduce the amount of tactile motion transmitted to the floor and surrounding environment, effectively isolating the tactile sensation to the couch or chair. Motion Isolators are made of a high quality mark-free rubber.
- **Interface cables**



- HDS100 to an existing sound card: 3.5 mm stereo phone plug to dual RCA Y (CBL120)
- HDS100 to actuators: 18 gauge, 7.3 mm
- signal to HDS100 *and* speakers: stereo splitter, 13.5 mm

