

force dimension

omega.x haptic devices

force feedback interface

Based on the patented delta robotic structure, the new **omega.x** family of haptic devices combines strength, stiffness and performance. With their interchangeable end-effectors that provide rotation sensing and active grasping, the **omega.x** devices meet the requirements of the most demanding applications in need of high-end force-feedback, both for research and commercial user-interfaces. Its unique design makes it the strongest and most reliable haptic solution for desktop applications.



omega.3



omega.6 extension
available as pen or sphere



omega.7 extension
with active grasping

force dimension

omega.3

workspace	translation	Ø 160 mm x L 110mm
forces	continuous	12.0 N
resolution	linear	< 0.01 mm
stiffness	closed loop	14.5 N/mm
dimensions	height	270 mm
	width	300 mm
	depth	350 mm
interface	standard	USB 2.0
power	universal	110V - 240V
OS	Microsoft	Windows 2000 / XP / Vista
	Linux	kernel 2.4 or higher
	Apple	OS X
software		DHD-API
calibration	automatic	
structure	parallel (delta-based kinematics)	
user input	1 programmable button	
safety	velocity monitoring	
	electromagnetic damping	

omega.6 extension

workspace	rotation	240 x 140 x 240 deg
resolution	angular	0.28 deg
option		available for right or left hand

omega.7 extension

workspace	rotation	240 x 140 x 180 deg
	gripper	25 mm
force	continuous	± 8 N
resolution	linear	0.006 mm
	angular	0.28 deg
option		available for right or left hand

Force Dimension
PSE-C
CH-1015 Lausanne
Switzerland

t +41 21 693 1911
f +41 21 693 1910

www.forcedimension.com
info@forcedimension.com