The **delta.6** is a high performance force feedback interface based on the delta manipulator. It offers 6 active degrees-of-freedom in translation and rotation and offers a **larger workspace** than omega.x devices. Thanks to its unique parallel mechanical design, the **delta.6** can convey **large continuous forces and torques** anywhere in its workspace.

**applications**

The **delta.6** device provides 6DOF (active force and torque) for a wide range of applications:

- medical and space robotics
- micro and nano manipulators
- teleoperation consoles
- virtual simulations
- training systems
- research
**delta.6**

**workspace**
- translation: 400 x 260 mm
- rotation: ± 22 deg

**forces**
- translation: 20.0 N
- rotation: 150 mNm

**resolution**
- translation: 0.02 mm
- rotation: < 0.04 deg

**electronics**
- interface: standard USB 2.0
- refresh rate: up to 4 KHz
- power: universal 110V - 240V

**software**
- platforms: Microsoft Windows, Linux all distributions, Apple macOS, Blackberry QNX, WindRiver VxWorks
- software: haptic SDK, robotic SDK

**features**
- structure: delta-based parallel kinematics, hand-centered rotations, rotations decoupled from translations, active gravity compensation
- calibration: automatic, driftless
- user input: 1 haptic programmable button
- safety: velocity monitoring, electromagnetic damping
- option: right- or left-handed

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Force Dimension
Allée de la Petite Prairie 2
CH - 1260 Nyon
Switzerland

t +41 22 362 6570
f +41 22 362 6571

www.forcedimension.com
info@forcedimension.com