

force dimension

delta.3 haptic device

force feedback interface



The **delta.3** is a high performance force feedback interface based on the delta manipulator. It offers 3 active degrees-of-freedom in translation and features a **larger workspace** than omega.x devices. Thanks to its unique parallel mechanical design, the **delta.3** can convey **large continuous forces** anywhere in its workspace.

applications

The **delta.3** provides 3D active force feedback for a wide range of applications:

- › medical and space robotics
- › micro and nano manipulators
- › teleoperation consoles
- › virtual simulations
- › training systems
- › research



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delta.3

workspace	translation	Ø 400 x 260 mm
forces	translation	20.0 N
resolution	translation	< 0.01 mm

electronics

interface	standard	USB 2.0
	refresh rate	up to 8 KHz
power	universal	110V - 240V

software

platforms	Microsoft	Windows XP / Vista / 7
	Linux	kernel 2.6
	Apple	OS X 10.5 / 10.6
	QNX	Neutrino 6.3 / 6.4 / 6.5
	tenAsys	INtime 4.0
software	haptic SDK robotic SDK	

features

structure	delta-based parallel kinematics 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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