

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	0.02 mm

electronics

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

software

platforms	Microsoft	Windows XP / Vista / 7 / 8 Windows CE 7
	Linux	kernel 2.6 / 3.x
	Apple	OS X
	QNX	6.5 / 6.6
	WindRiver	VxWorks 6.3 / 6.8 / 6.9
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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