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Mobile : +91 88495 63724
Mobile 1: +91 98791 03905

Email: sem@semtrainers.com
Website: www.semtrainers.com

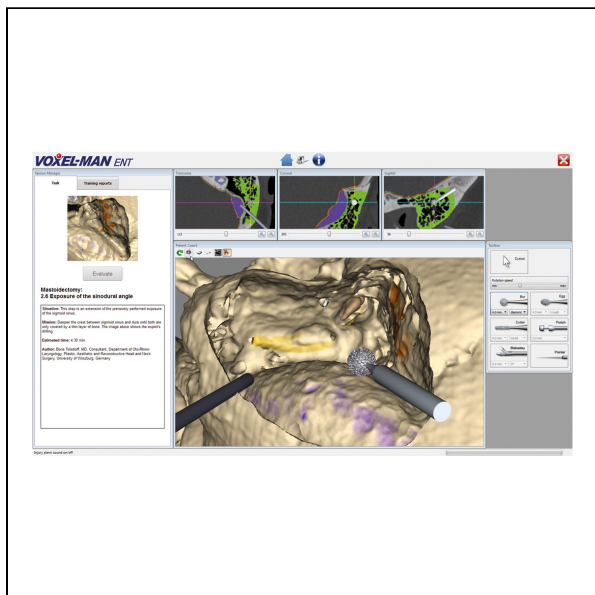
Voxel-Man ENT Basic System Virtual Reality Simulator

Item No. 1022079
Weight 30 kg
MPN: ENT-520

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SKU:

Categories: Virtual Reality Simulators



Product Description

Voxel-Man is a complete VR Surgical Simulation System for temporal bone dissection, endoscopic sinus surgery and adding own cases in CT or CBCT format. The system provides a versatile emulation

of a surgical experience: the look, feel and tactile feedback are extremely close to the real intervention.

The VR simulation features both one and two-handed operation of instruments such as metal and diamond burs of different sizes or suction. The system offers predefined tasks, automatic skills assessment, visualization of learning curves, video capture as well as online updates. The trainee will quickly acquire a thorough understanding of the surgical anatomy and approaches, all within a safe learning environment.

Tempo – the temporal bone drilling simulation:

- Pre-defined training cases of middle ear with different anatomy and pathology
- Structures at risk such as facial nerve, tympanic chord, vestibular labyrinth, cochlea, auditory ossicles, carotid artery, sigmoid sinus and dura are highlighted
- Optional support function provides automatic alerts
- Predefined tasks such as exposure of sigmoid sinus, short process of the incus or facial nerve
- Permanent tracking of instrument movements
- Automatic skills assessment provides immediate and objective feedback of performance
- Automatic video capture of session provides additional insights
- Learning curves of individuals and groups help monitor and compare progress over time

My Cases – new simulations based on own data

- Upload own clinical or research data from CT or CBCT to create new specialized training cases
- System provides a bone model ready for drilling within minutes
- 3D anatomy may be further enhanced with structures at risk, identified using an advanced interactive segmentation approach
- Your cases can reach the same functionality as predefined training cases

	ENT Basic System	ENT Full System	Dental Full System
	1022079	1022080	1022081
Hardware	YES	YES	YES
Workstation computer	YES	YES	YES
3D LCD Monitor	YES	YES	YES
Two pairs of 3D glasses	YES	YES	YES
Force feedback device (handle)	1	2	2
Space navigator	YES	YES	YES
Foot pedal	YES	YES	YES

Simulator housing with two arm rests and electrically adjustable height	–	YES	YES
Software modules			
"Tempo" for temporal bone drilling exercises	YES	YES	–
"My Cases" for adding new simulations based on own CT or CBCT data	YES	YES	–
"Sinus" for endoscopic sinus surgery exercises	–	YES	–
Two-handed operation with bleeding and suction	–	YES	–