厦门立方幻境科技有限公司
XIAMEN CUBE MAGIC 3D TECHNOLOGY CO.,LTD

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Cube Magic Airway Management Virtual Reality Training System

Improving proficiency in airway management skills

The Airway Management Mixed Reality Training System combines a physical adult manikin with a real-time 3D virtual platform for orotracheal intubation training.

Learners complete the full clinical pathway — preparation, airway assessment, mask ventilation, laryngoscopy, tube placement and confirmation — on the manikin, while blade position, tube path and complications are mirrored in the software.

Difficult-airway conditions such as laryngospasm, tongue edema, trismus and laryngeal displacement can be set in software and expressed on the manikin, so practice is graded, repeatable and measurable.



Hands-on intubation with live virtual anatomy

Mixed reality
Physical manikin actions sync to 3D anatomy, blade view and the virtual monitor.

Difficult airway
Laryngospasm, tongue edema, trismus and jaw or larynx shift — set in software.

Measurable practice
Tube path, chest rise, cuff volume and dental-load warnings are recorded in the case.



Training features

Airway & positioning

- Head tilt / chin lift and jaw thrust, with airway-open detection
- Adjustable mouth opening, jaw position and laryngeal height

Ventilation

- Mask ventilation with rate, flow and duration prompts
- Visual chest rise; unilateral rise if the tube is too deep
- Auscultation of both lungs and the stomach

Intubation

- Orotracheal intubation under direct vision
- Virtual blade position shown in the pharynx
- Glottic exposure feedback on correct lift
- Cuff volume check and tube fixation
- Optional wireless video laryngoscope, synced to software

Difficult airway & errors

- Laryngospasm, from partial to complete obstruction
- Tongue edema, trismus, mandibular protrusion / retrusion
- Esophageal intubation with gastric bubbling
- Virtual monitor physiology changes with tube position

Software

- Interface language can be customized (English, Indonesian, Chinese and others on request)

System benefits

- Physical manikin plus real-time 3D anatomy in one trainer
- Full intubation pathway, not a single insertion task
- Software-controlled difficult airway and complications
- Tooth-protection warning when the blade loads the incisors
- Tube position judged: trachea, bronchus or esophagus
- Chest rise and virtual lungs stay synchronized
- Case-based workflow with text and voice feedback
- Software language can be customized for local teaching
- Integrated cart with touch display for classroom use







Everything included to start training

- Airway management upper-body manikin × 1
- Dedicated adult laryngoscope × 1
- Endotracheal tubes × 3
- Bag-valve mask × 1
- Integrated cart with display and control system × 1

Support & contact

- 1-year warranty on the complete system
- Lifetime free software function upgrades
- Software language customization available
- On-site training and 24-hour technical hotline

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