

The Adult Head Immobilizer (VM-HIAO) is a trauma-grade head immobilization device consisting of two HDPE plastic-coated solid foam side blocks, an adhesive base plate, and dual head and jaw straps. Features include multi-directional block adjustment, a quick-release card lock, large ear holes, disposable airway access, and full X-ray, CT, and MRI compatibility. Compatible with all

standard spine boards and scoop stretchers.

Clinical-Grade Head Immobilization for Trauma and Pre-Hospital Care

The **VM-HIAO Adult Head Immobilizer (DW-FA001A)** is a purpose-built head immobilization device designed to restrict lateral and axial head movement in patients with suspected spinal injury. Used in conjunction with a cervical collar and spine board or scoop stretcher, it completes the full spinal precaution package required in pre-hospital emergency care, trauma bay management, and emergency department treatment of suspected cervical spine injury. Without effective head immobilization, even a correctly applied cervical collar cannot prevent rotational and lateral movement that risks secondary spinal cord injury during patient movement and transport.

HDPE Construction with Waterproof, Non-Absorbent Inner Wall

The side support blocks are manufactured from durable HDPE (high-density polyethylene) with a waterproof plastic coating. The inner wall surface is non-absorbent — it does not retain blood, fluids, or contaminants between uses. The coating allows quick wipe-down between patients and resists bacterial colonisation on contact surfaces, an important consideration in both EMS and emergency department settings. Each side block weighs only 150 grams, keeping the total device weight low for patient comfort and ease of carry in emergency response bags and kits.

Dual-Strap Fixation, Quick-Release Lock, and Airway Access

Two immobilization straps — one securing the forehead and one securing the chin and jaw — provide dual-point fixation that prevents both lateral rotation and anterior flexion of the head. Single-strap designs do not adequately prevent forward flexion; dual-point fixation is the accepted clinical standard for effective head immobilization on a spine board. The quick-release card lock mechanism allows the device to be opened rapidly when the airway needs to be accessed or the patient repositioned, without fumbling with conventional buckles under field or resuscitation conditions. A dedicated disposable airway access point allows an oral airway adjunct to be inserted or maintained without disturbing the head immobilizer. Large ear holes on both side blocks maintain access to the

patient's ear canal for neurological assessment and fluid monitoring. The adhesive base plate uses replaceable pads and is compatible with wooden, aluminium, and plastic spine boards and scoop stretchers. X-ray, CT, and MRI compatibility means the device does not require removal during diagnostic imaging, maintaining spinal precaution throughout the assessment phase. Certified to CE and ISO 9001. Available in South Africa from Vital Medical.

Technical Specifications

Specification	Value
Model	DW-FA001A
SKU	VM-HIAO
Type	Adult Head Immobilizer
Side Block Material	HDPE plastic-coated solid foam
Inner Wall	Non-absorbent
Surface Finish	Waterproof plastic coating
Side Block Weight	150 g per block
Immobilization Straps	2 (head strap + chin/jaw strap)
Block Adjustment	Multi-directional
Lock Mechanism	Quick-release card lock
Airway Access	Disposable airway compatible
Ear Access	Large ear holes (bilateral)
Base Plate	Adhesive with replaceable pads
Board Compatibility	Wooden, aluminium, and plastic spine boards; scoop stretchers
Imaging Compatibility	X-ray, CT, MRI compatible
Patient Age	2 years and above
Product Size (L × W × H)	42 × 26 × 18 cm
Net Weight	1 kg
Certifications	CE, ISO 9001

SKU: VM-HIAO