

MEDICAL INSTRUMENTS · MODEL PM-VF-100

Ravaye™ E2 Vein Finder

Light, bringing clarity to care.

Advanced near-infrared vein visualisation, projected in real time onto the patient's skin — supporting procedural confidence and patient comfort.



CLASS I MEDICAL DEVICE · ISO 13485 · ISO 9001 · ISO 14001 · ISO 45001 · CE (LVD) · CDSO CLASS A

Technology overview

Ravaye™ E2 enhances the visibility of superficial veins using near-infrared illumination (760–940 nm), mapped and projected in real time onto the skin — non-invasively and without contact.

Lightweight, intuitive and portable, it needs minimal training and fits existing clinical workflows — from hospital wards to day-care units, infusion suites and community clinics.

How it works

- 1 Illuminate**
Near-infrared light is directed at the skin; haemoglobin in superficial veins absorbs it differently from surrounding tissue.
- 2 Map**
The device detects this optical contrast and builds a real-time map of the superficial vein structure.
- 3 Project**
The map is projected onto the skin by DLP projection — contact-free — giving clear, live guidance.
- 4 Adapt**
12 projection colours, 3 sizes, 6 brightness levels and 9 display modes let the clinician tune the image.

Why clinicians choose Ravaye™ E2

Wide range of patients

Paediatric, geriatric, oncology, bariatric and difficult-access patients, subject to individual limitations.

Bedside ready

450 g handheld unit, approx. 3.5-hour battery — ward, clinic and emergency ready.

Patient comfort

Non-invasive and contact-free, with no consumables.

From Singapore

Manufactured by Polymatech in India under ISO 13485; supplied in ASEAN by AEIM.

Clinical applications

IV cannulation

Supports confident line placement across general, acute and infusion settings.

Phlebotomy and blood draw

Supports routine and high-volume blood collection.

Paediatric and neonatal care

Gentle, contact-free visualisation for small, delicate veins.

Geriatric care

Clear guidance for fragile or mobile veins in elderly patients.

Oncology and infusion therapy

Support for patients whose venous access is affected by repeated treatment.

Emergency care

Portable and ready in seconds — at the bedside or in the emergency department.

Technical specifications

Detection method	Near-infrared illumination, 760–940 nm	Display modes	9 — default, enhance, hair-removal, guide-line, 5 colour-mix
Detection depth	0–10 mm (superficial vasculature)	Battery	Rechargeable lithium-ion, 4,900 mAh
Optimal working distance	20–26 cm	Operating duration	Approx. 3.5 hours
Position / resolution accuracy	±0.3 mm	Charging / adapter	USB-C · 5 V, 4.5 A · input 100–240 V AC, 50/60 Hz
Projection technology	DLP projection onto skin	Working noise	≤ 35 dB
Projection colours	12 selectable	Weight	450 g
Projection sizes	3 — large, medium, small	Dimensions (L × W × H)	24 × 6 × 6.5 cm
Brightness / inverse mode	6 levels · inverse selectable	Ships with	Carrying case, adapter, cable, calibration card

Supply, quality and warranty

Manufacturer	Polymatech Electronics Limited, India
Supplied in ASEAN by	AEIM Pte. Ltd., 163 Kallang Way, #04-18, Mapletree Hi-Tech Park, Singapore 349256
ASEAN supply	Each country of supply has its own medical-device requirements: Singapore, Health Sciences Authority (HSA); Malaysia, Medical Device Authority (MDA); Indonesia, Ministry of Health (Kemenkes); Vietnam, Ministry of Health. Products are supplied in each country only in accordance with that country's requirements. Availability and registration status differ by country; please contact sales@aeimglobal.com.
Manufacturer certifications	ISO 13485:2016 · ISO 9001:2015 · ISO 14001:2015 · ISO 45001:2018
Warranty	1 year standard; 2 years when registered within 7 calendar days of purchase at www.aeimworld.com/register-product.html . Claims: service@aeimglobal.com (products supplied in ASEAN by AEIM)

Enquiries

Sales: sales@aeimglobal.com · Service: service@aeimglobal.com · info@aeimglobal.com · www.aeimworld.com

Ravaye™ E2 assists qualified healthcare professionals in visualising certain superficial veins. It is not a diagnostic device and does not replace clinical judgement, standard venepuncture practice, palpation or confirmation of vessel suitability. Successful venous access is not guaranteed; the projected image is an aid only. Specifications are subject to change without notice.