

Ravaye™ E2 Vein Finder

Advanced near-infrared vein visualization, projected in real time onto the patient's skin — for procedural precision, first-attempt confidence, and patient comfort.

CLASS I MEDICAL DEVICE

U.S. FDA REGISTERED & DEVICE LISTED

510(K)-EXEMPT · PRODUCT CODE KZA

ISO 13485 · ISO 9001 · ISO 14001 · CE UNDER LVD



RAVAYE™ E2 VEIN FINDER —
HANDHELD UNIT · MODEL PM-VF-100

TECHNOLOGY OVERVIEW

Precision visualization for every clinician.

Ravaye™ E2 enhances subcutaneous vein visibility using near-infrared illumination (760–940 nm), mapped and projected in real time onto the patient's skin surface — non-invasively and without contact.

Designed to reduce procedural time, minimize failed venipuncture attempts, and support procedural confidence and patient comfort across IV insertion, blood draw, and related vascular access procedures.

Lightweight, intuitive and portable, the device requires minimal training and integrates into existing clinical workflows — from acute-care hospitals to ambulatory surgery centers, infusion suites and community clinics.

HOW IT WORKS

1 Illuminate

Near-infrared light is directed at the patient's skin. Hemoglobin in subcutaneous veins absorbs the light differently from surrounding tissue.

2 Map

The device detects this optical contrast and constructs a real-time map of the underlying superficial vein structure.

3 Project

The vein map is projected directly onto the skin surface by DLP projection — contact-free — giving the clinician clear, live guidance.

4 Adapt

Twelve projection colors, three projection sizes, six brightness levels and nine display modes let the clinician tune the image to skin tone, lighting and procedure.

WHY U.S. CLINICIANS CHOOSE RAVAYE™ E2

— First-Attempt Confidence

Supports procedural efficiency and reduces repeat sticks in routine and difficult access.

— Every Patient Profile

Suitable for pediatric, geriatric, oncology, bariatric and difficult-access patients.

— Bedside Ready

450 g handheld unit, ~3.5-hour battery — ward, clinic, ED and transport ready.

— Patient Comfort

Non-invasive and contact-free — gentler procedures, calmer patients, no consumables.

One device. Every point of care.

IV Cannulation

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

Phlebotomy & Blood Draw

Supports first-attempt success in routine and high-volume blood collection.

Pediatric & Neonatal Care

Gentle, contact-free visualization for the smallest and most delicate veins.

Geriatric Care

Clear guidance for fragile, mobile or collapsed veins in elderly patients.

Oncology & Infusion Therapy

Support for patients with venous access compromised by repeated treatment.

Emergency & EMS

Portable and ready in seconds — at the bedside, in the ED, or in transport.

TECHNICAL SPECIFICATIONS

Detection method	Near-infrared, 760–940 nm	Brightness levels	6 adjustable
Detection depth	0–10 mm	Display modes	9 modes
Optimal working distance	20–26 cm (8–10 in)	Battery	Li-ion rechargeable, 4,900 mAh
Vessel position accuracy	±0.3 mm	Battery duration	Approx. 3.5 hours
Vessel resolution accuracy	±0.3 mm	Charging / adapter input	5 V --- 4.5 A · 100–240 V, 50/60 Hz
Projection technology	DLP projection	Working noise	≤ 35 dB
Projection colors	12 selectable	Weight	450 g (15.9 oz)
Projection sizes	3 (L / M / S)	Dimensions (L × W × H)	24 × 6 × 6.5 cm
		Ships with	Case, adapter, cable, calibration card

REGULATORY & QUALITY

Classification	Class I Medical Device
U.S. FDA	Registered Establishment & Device Listed — Listing No. D588842 · Product Code KZA · Class I, 510(k)-Exempt
Certifications	ISO 13485:2016 · ISO 9001:2015 · ISO 14001:2015 · CE under LVD 2014/35/EU
India (CDSCO)	Class A — Registration No. POLYMA-Kanch-TN/M/IVD/021765
Manufacturer	Polymatech Electronics Limited SIPCOT Hi-Tech SEZ, Plot No. OZ 13, Oragadam, Kancheepuram District, Greater Chennai, Tamil Nadu 602105, India
U.S. Agent (FDA)	Nisene Technology Group 417A Salinas Road, Watsonville, CA 95076, USA
Warranty	Two (2) years, unconditional Provided the unit remains physically intact. Service, RMA and technical support handled in the United States by Nisene Technology Group.

UNITED STATES INQUIRIES

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Distribution & Partnerships

Product information, evaluation units, demonstrations, dealer and GPO inquiries are warmly welcomed.

Ravaye™ E2 assists qualified healthcare professionals in visualizing certain superficial veins. It is not a diagnostic device and does not replace clinical judgment, standard venipuncture practice, palpation, or confirmation of vessel suitability. Successful venous access is not guaranteed; the projected image is an aid only. The device is registered and listed with the U.S. FDA as Class I, 510(k)-exempt — listing and registration are not FDA approval or clearance. Specifications subject to change.