

Ravaye™ E2 Vein Finder

Technical Data Sheet · Near-infrared vein visualization system · United States Edition

MODEL	VERSION	DOCUMENT REF.	ISSUE	CLASSIFICATION
PM-VF-100	Poly2025 (Edition 2)	PM-VF-100-TDS-USA Rev 1.0	August 2026	Class I · 510(k)-Exempt

OPTICAL & IMAGING

Detection method	Near-infrared illumination
Wavelength range	760–940 nm
Detection depth	0–10 mm (superficial vasculature)
Optimal working distance	20–26 cm (approx. 8–10 in)
Vessel position / resolution accuracy	±0.3 mm
Patient interface	Non-contact, no consumables

PROJECTION & DISPLAY

Projection technology	DLP projection onto skin
Projection colors	12 selectable
Projection sizes	3 — Large / Medium / Small
Brightness / inverse mode	6 levels · inverse selectable
Display modes	9 — default, enhance, hair-removal, guide-line, 5 color-mix modes
User interface	LCD menu · power, sleep, OK, 4-way navigation keys

POWER & BATTERY

Battery type	Rechargeable lithium-ion
Battery capacity	4,900 mAh
Operating duration	Approx. 3.5 hours
Charging / adapter	USB-C · 5 V — 4.5 A 100–240 V AC, 50/60 Hz
Status indicators	Blue = normal · Green = charged Red = charging
Auto sleep / shutdown	10 min / 35 min idle (adjustable)

PHYSICAL

Weight	450 g (15.9 oz)
Dimensions (L × W × H)	24 × 6 × 6.5 cm
Form factor	Handheld, single-hand operation
Working noise	≤ 35 dB
Mounting	Handheld or optional stand

PACKAGE CONTENTS & ACCESSORIES

- Ravaye™ E2 Vein Finder main unit
- USB Type-C charging cable
- Charging adapter (100–240 V input)
- Aluminum carrying case
- Calibration card
- User manual (USA Edition), product certificate, warranty card
- **Optional:** table stand with mobile base; mobile stand with articulated arm

CARE, CLEANING & VERIFICATION

- Exterior wipe with lint-free cloth and 70% isopropyl alcohol; air-dry before use
- Do not autoclave; no heat or pressure sterilization; do not immerse
- Do not open the casing — authorized service personnel only
- Verify calibration against the supplied calibration card before first use and periodically per facility procedure

CLINICAL LIMITATIONS

- Displays superficial vasculature within 0–10 mm only; image quality varies with anatomy, vein depth, skin condition, tattoos, hair, scars, ambient light and device angle
- Not for vein depth or blood flow measurement, vascular diagnosis, ophthalmic use, or as the sole method of vein location

REGULATORY, COMPLIANCE & WARRANTY

U.S. FDA status	Registered Establishment & Device Listed — Listing No. D588842 · Product Code KZA · Class I, 510(k)-Exempt. Listing and registration are not FDA approval or clearance.
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 & U.S. service	Two (2) years, unconditional, provided the unit remains physically intact — service and RMA handled domestically by Nisene Technology Group
U.S. availability	Stocked in Watsonville, CA and shipped on receipt of order; dealer, IDN, GPO and federal channels available

UNITED STATES INQUIRIES

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Evaluation Units

Demonstration and evaluation units available on request for hospital systems and value-analysis committees.

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. Specifications are subject to change in the interest of product improvement.