

IEM[®]
on life's side



CART BP_{pro}

A new era in 24-hour
blood pressure monitoring

CART BP_{pro}

Beyond the cuff

For decades, ambulatory blood pressure monitoring has been an established clinical standard around the world. Yet one thing has remained unchanged.

The cuff.

Today, a new era begins.

CART BP pro reimagines 24-hour blood pressure monitoring with a fundamentally new approach. Designed around everyday life rather than the device, it combines clinical confidence with an entirely new monitoring experience.

Not just a new device.

A new way to experience 24-hour blood pressure monitoring.

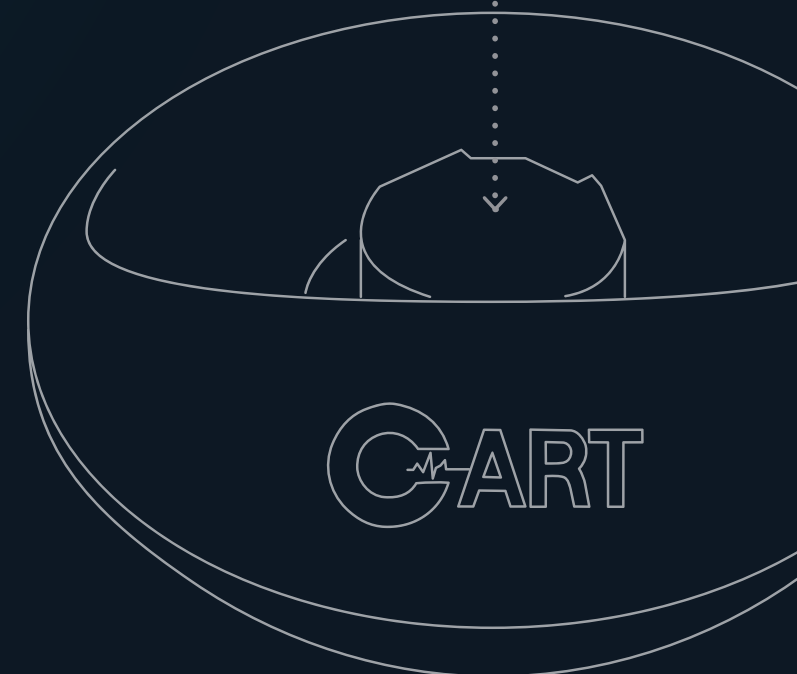
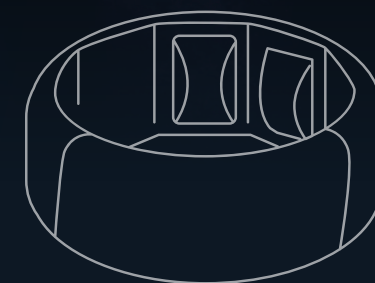


A new way to monitor blood pressure

For the first time, clinical 24-hour blood pressure monitoring is available in a lightweight ring designed for everyday life. CART BP pro uses advanced optical sensing to continuously capture physiological signals, enabling continuous 24-hour blood pressure monitoring.

The result is a redefined monitoring experience – combining clinical performance with unprecedented patient comfort.

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Advanced & Precise Signal Analysis

Enables precise continuous blood pressure monitoring based on physiological signals.

Photoplethysmography (PPG) Technology

Detects subtle blood flow changes in the finger vessels to accurately extract personalized blood pressure data.

Designed for Everyday Use

- ✓ Comfortable and discreet
- ✓ Convenient docking station for effortless charging
- ✓ Seamless Bluetooth[®] connectivity for smooth and reliable workflows
- ✓ Clinically validated measurement technology
- ✓ Continuous blood pressure insights during daily activities and sleep
- ✓ Waterproof (IP58)





Validated for Clinical Confidence

Evidence you can trust

CART BP pro has been clinically validated against conventional 24-hour ABPM in accordance with the validation criteria recommended by the European Society of Hypertension (ESH). The studies confirm that CART BP pro meets the defined performance criteria across 24-hour blood pressure monitoring.

FLOW[®]
The way to simplicity!

Streamlined and fast processes

In the often hectic environment of medical practices or clinics, every second counts. **Our software FLOW provides lightning-fast and reliable access** to patient data and device information, as well as comprehensive reports. Gone are the days of long loading times and unnecessary clicks - leaving more time for the tasks that truly matter.

Effortless usability

FLOW is a software designed for doctors and their teams to focus on their patients instead of wasting time navigating complex menus or features.

- ✓ Clear structures
- ✓ Self-explanatory workflows
- ✓ Only minimal training required
- ✓ **Ease of use at its best**

Automated, comprehensive reports

Simply connect the device to your computer to read it out and get a clearly structured report. The connected device is recognized in seconds and the PDF report is created fully automatically. **This ensures fast access to results and smooth documentation with minimal effort.**

Hassle-free integration

FLOW offers a remarkably simple and **seamless integration into existing EMR systems**, allowing you to get started immediately without any technical hurdles. After the quick installation, it operates with **unwavering stability, even under high load**. It is robust, reliable and ensures a high level of protection for sensitive data.



Algorithm Validation with A-Line Data ¹

	Criteria [mmHg]	SBP [mmHg]	DBP [mmHg]
Mean Error	< ±5	0.98 ✓	0.52 ✓
SD	< ±8	6.97 ✓	4.38 ✓

Trained on 4,185 subjects and 320,535 A-line BP samples from an operating room, with 10% reserved for validation



Validation against Standard Sphygmomanometer ²

	Criteria [mmHg]	SBP [mmHg]	DBP [mmHg]
Mean Error	< ±5	0.16 ✓	-0.07 ✓
SD	< ±8	5.90 ✓	4.68 ✓

Demonstrated accuracy within ISO 81060-2:2018 criteria (5 ± 8mmHg) in a study of 89 participants



24-Hour ABPM Comparison: Daytime-Nighttime BP Change ³

	Criteria [mmHg]	SBP [mmHg]	DBP [mmHg]
Mean Error ± SD	< 5±8	-3.39 ± 5.86 ✓	-3.74 ± 4.72 ✓
r *	≥ 0.7	0.73 ✓	0.75 ✓

* r (The correlation coefficient) quantifies the relationship between blood pressure readings obtained from CART BP pro and the reference standard, with values ranging from -1 to 1

1. Joung J, Jung CW, Lee HC et al. Sci Rep. 2023 May 27;13(1):8605
2. Kim J, Chang SA, Park SW. J Korean Med Sci. 2024 Jan 15;39(2):e18
3. Lee H, Park S, Kwon H et al. Korean Circ J. 2024 Feb;54(2):931-104



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