CardioMEMS™ HERO Device

Product Highlights

The CardioMEMS™ HF System is a remote hemodynamic pulmonary artery (PA) pressure monitor. It is clinically proven to reduce overall PA pressures[1], keep patients out of the hospital[1] and reduce mortality risk[2] by proactively managing fluid volumes and optimizing GDMT. When used by clinicians to help manage heart failure patients, the CardioMEMS HF System is:

- **Safe and reliable** — demonstrates 99.6% freedom from device or system complications[1]
- **Clinically proven** — reduced HF hospitalizations by 57%[1] and mortality risk[2]
- **Proactive and personalized** — patient management through direct monitoring of PA pressure and titration of medications

The CardioMEMS HF System provides direct pulmonary artery (PA) pressure monitoring using the PA sensor, HERO Device and the Merlin.net™ Patient Care Network (PCN) to manage patient data.

Patient-initiated sensor readings are wirelessly transmitted through the HERO Device and stored in a secure website for clinicians to access and review.

The HERO Device is designed for patients to use at home or wherever they may be traveling.

The HERO Device powers the sensor using RF energy; receives and processes the frequency information from the sensor; and converts the data into pressure waveforms, PA pressure values and heart-rate measurements, and transmits PA data to the Merlin.net PCN website.

Ordering Information Contents: HERO Device

Model Number	Description
CM1200	CardioMEMS™ HERO Device
Replacement Parts	
CM1210	Antenna Cover
CM1220	Controller Strap
CM1230	Power Supply
CM1250	Replacement Modem
CM1260	Power Cord (U.S.)
CM3026	Power Cord Clip
CM1050	Orientation Ball

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Physical Specifications

Model	CM1200	
Connectivity	Integrated WiFi	('802.11a/b/g/n/ac'); Cellular ('2G/3G/4G')
Electronics Unit	Dimensions (H x W x L, inches)	2 x 13 x 18
	Weight (lbs)	7
Power	Supply Voltage	12v DC, 4.2A
	Provided Power Supply	Medical Grade Class II. Input: 100-240V, 50-60Hz, output: 12v DC, 4.2A. Model Number: CM1230
	Power Cord	Only use power cord supplied by the manufacturer.
Radiofrequency (RF) Characteristics	Transmitted Electrical Power	< 1 mW e.r.p.
	Frequency Band of Transmission	30-37.5 MHz The operating frequency of the HERO Device is compatible with all existing CM2000 sensors.
Processing Capabilities	I/O	USB
Display	Touch Screen	Capacitive
	Brightness	Minimum 270 cd/m^2
	Resolution	800 x 480, RGB
Environmental	Operation	0°C to 35°C (32°F to 95°F), 15% to 93% humidity (non-condensing), 700-1060 hPa (System), 800-1146 hPa (implanted sensor)
	Transportation	-25° to 70° C (-13° to 158° F), and up to 93% humidity (non-condensing)
	Storage	-25° to 70° C (-13° to 158° F), and up to 93% humidity (non-condensing)
Available Languages		English, Latin American Spanish, German, French, Italian, Dutch, Spanish, Danish, Portuguese, Swedish, Finnish, Czech, Norwegian, English UK, Brazilian Portuguese, Arabic, Japanese, Greek, Polish, Russian, Hebrew, Slovenian

1. Shavelle D, Desai A, Abraham W, et al. Lower rates of heart failure and all-cause hospitalizations during pulmonary artery pressure-guided therapy for ambulatory heart failure. *Circulation: Heart Failure*. Published online 2020. https://doi.org/10.1161/CIRCHEARTFAILURE.119.006863.
2. Zalawadiya S, Abraham J, Rathman L, et al. Early Reduction of Pulmonary Artery Pressures Is Associated With Improved Mortality Among Medicare Beneficiaries With Heart Failure. *JACC Heart Fail*. 2025;13(10):102589. doi:10.1016/j.jchf.2025.102589

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Rx Only
Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

CardioMEMS™ HF System Indications and Usage: The CardioMEMS™ HF System is indicated for wirelessly measuring and monitoring pulmonary artery pressure and heart rate in NYHA Class II or III heart failure patients who either have been hospitalized for heart failure in the previous year and/or have elevated natriuretic peptides. The hemodynamic data are used by physicians for heart failure management with the goal of controlling pulmonary artery pressures and reducing heart failure hospitalizations.

CardioMEMS™ HF System Contraindications: The CardioMEMS HF System is contraindicated for patients with an inability to take dual antiplatelet or anticoagulants for one month post implant.

CardioMEMS™ HF System Potential Adverse Events: Potential adverse events associated with the implantation procedure include, but are not limited to, the following: air embolism, allergic reaction, infection, delayed wound healing, arrhythmias, bleeding, hemoptysis, hematoma, nausea, cerebrovascular accident, thrombus, cardiovascular injury, myocardial infarction, death, embolization, thermal burn, cardiac perforation, pneumothorax, thoracic duct injury and hemothorax.

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