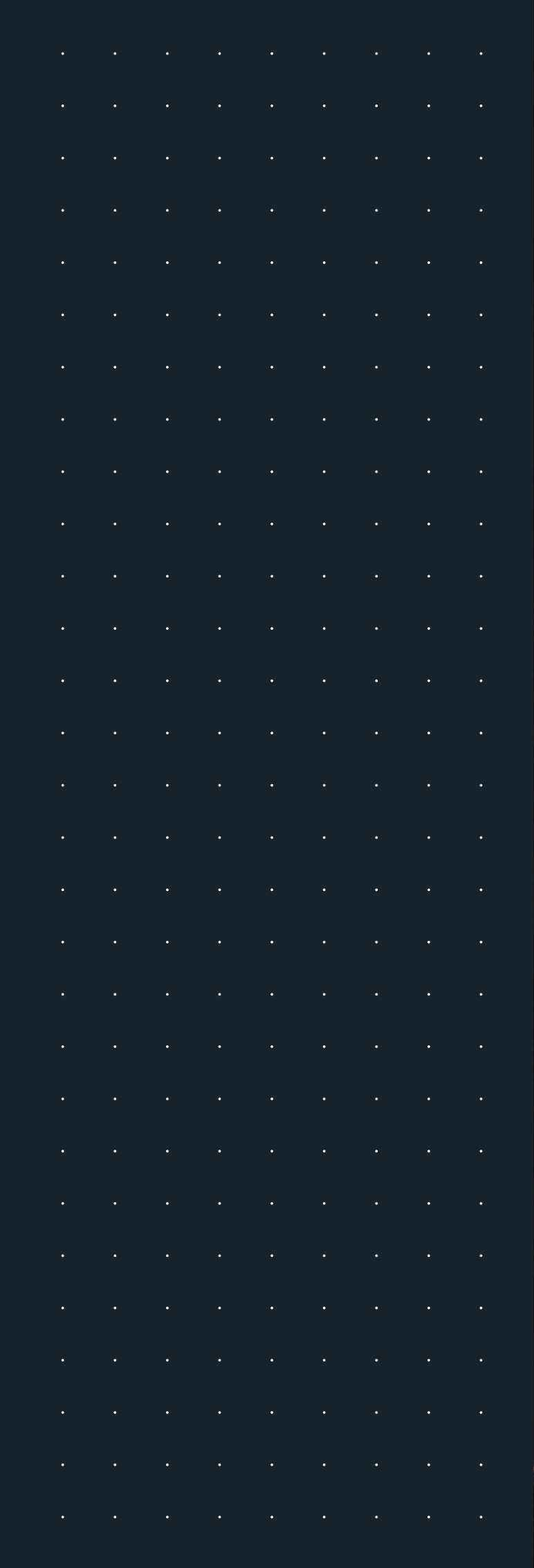




TEO

BREAK FREE.



TEO

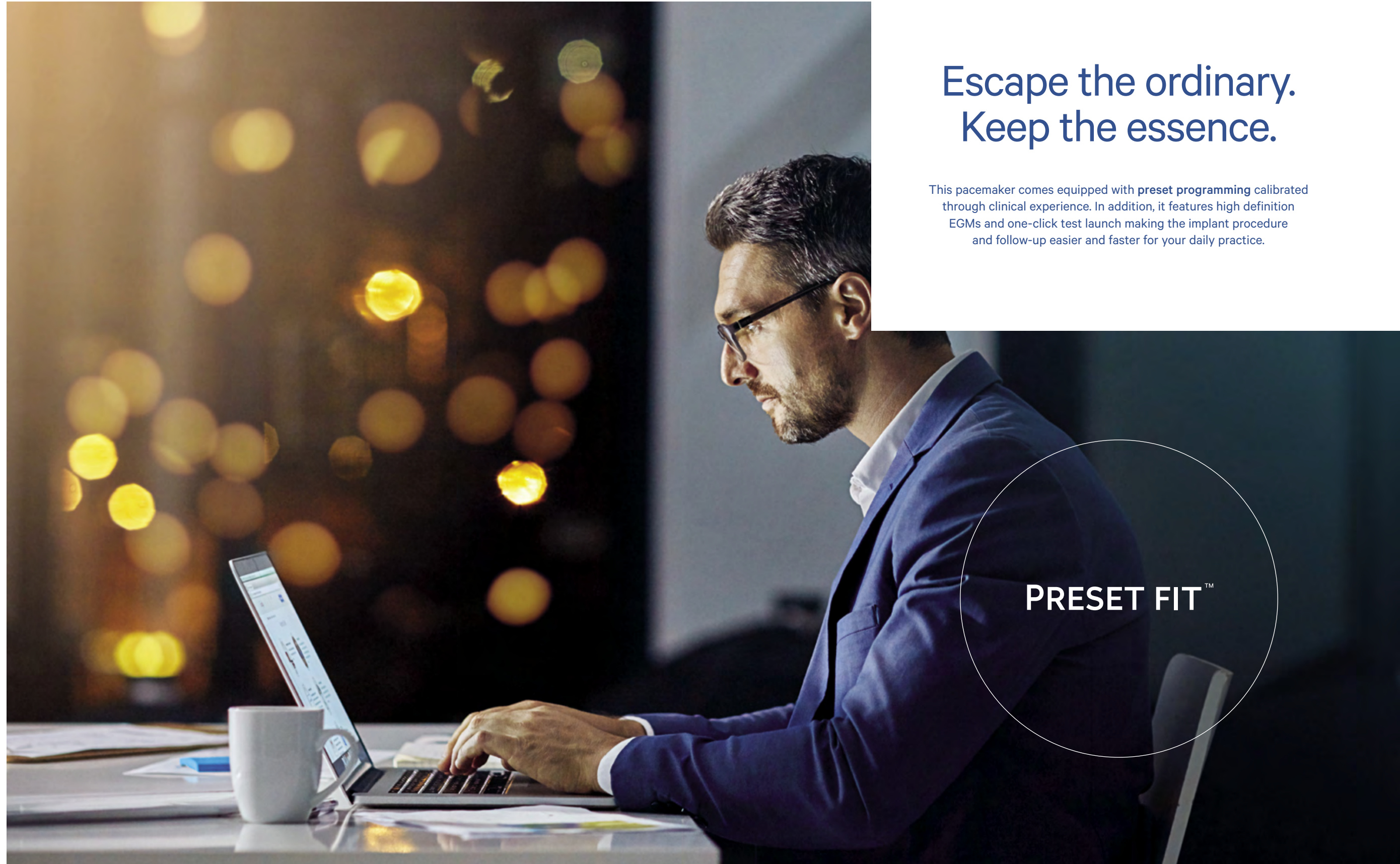
TEO

B R E A K F R E E .



- ✓ Therapies activated automatically at implant
- ✓ Minimizes ventricular pacing for SND and AV Block patients
- ✓ 12 years of longevity in 8 cc

1.5T & 3T MR CONDITIONAL PACING SYSTEM



Escape the ordinary. Keep the essence.

This pacemaker comes equipped with **preset programming** calibrated through clinical experience. In addition, it features high definition EGMs and one-click test launch making the implant procedure and follow-up easier and faster for your daily practice.

PRESET FIT™



PRESET FIT™

The new standard is excellence.



Optimal settings automatically programmed.

- Precision programming calibrated through clinical experience is preset
- Automatic lead polarity configuration with Auto Implant Detect
- Evolves and learns with the patient thanks to Minute Ventilation and Accelerometer
- Automatic launch of key features 20 minutes after the detection of implantation



One click follow-up test sequence.

- Adaptable suite of tests launched sequentially in one click
- Designed for an efficient follow-up experience
- Spend quality time on diagnostics, not on set up
- Detailed snapshot of key results displayed in one screen

TEST SEQUENCE

- V Sensing
- A Sensing
- V Impedance
- A Impedance
- V Auto Threshold
- V Manual Threshold
- A Manual Threshold

Smart
Check

▶

PRESET FIT™



High Definition EGM.

- Eases reading of patient's status allowing a quick and precise diagnosis
- Eliminates the need for ECG electrodes to do threshold tests
 - Streamlines the follow-up procedure
 - Ensures increased patient comfort

Type AF Date 30/10/2018 03:28 Duration 9h 41min 8s Zoom ×1 ×2 ×4



PRESET FIT™



Key information at first sight.

Warning & Key observations

% V Pacing

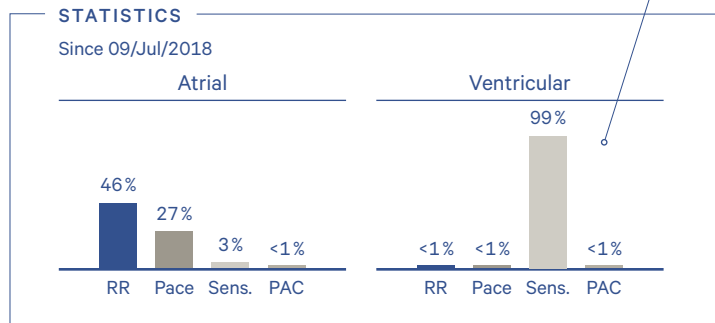
WARNINGS : 0

OBSERVATIONS

Time in MS: 16.8%
 V Rate during MS: 110 min⁻¹
 % of Time spent in AAI (SafeR Mode): 82.8 %
 Occurrence of AVB stored

PARAMETERS

Mode	SafeR (AAIR ↔ DDDR)
Basic rate	60 min ⁻¹
Max Rate	130 min ⁻¹
A Pacing	2.5 V 0.35 ms Bipolar
V Pacing	2.5 V 0.35 ms Bipolar
A Sensing	0.6 mV Bipolar
V Sensing	2.5 mV Bipolar



LEADS

	Impedance kOhm	Threshold V	P/R Waves mV
A 428 12/Oct/2018	0.50	12/Oct/2018	6.14 12/Oct/2018
V 551 12/Oct/2018	0.50	12/Oct/2018	15.00 12/Oct/2018

Pacing Mode

Remaining Longevity

Leads Status



— WHAT IF YOU COULD ALWAYS
GIVE THEM THE BEST?

Ψ INTELLIGENCE™

Ψ INTELLIGENCE™

Translating the natural beat into engineering excellence.

MICROPORT™ CRM pacemakers are equipped with *Phi Intelligence™*, enabling a physiological response, real time adaptive therapy at rest and during exercise, and simultaneous treatment of multiple pathologies.

Inspired by physicians. Engineered by MICROPORT™ CRM.

1

PHYSIO-INSPIRED DESIGN

Mimics the natural way the heart works and
minimizes artificial intervention.

[SAFER]™

Reduces unnecessary V pacing to almost 0% for SND & AV Block patients at rest and during exercise.¹

Warad™

Differentiates between natural and pathological atrial acceleration.²

[DUAL SENSOR]

Responds more naturally to patient activity thanks to cross-checking sensors.³

Ψ INTELLIGENCE™



[SAFER]™

Adapts AV management during rest and exercise.

Mode Switch

Continuously monitors atrial acceleration cycle by cycle.²

2

WAVE TO WAVE THINKING

Permanent adaptive strategy for real time decisions that responds to all levels of patient activity, day and night, evolving and learning with the patient.

[DUAL SENSOR]

Patient activity is monitored and Rate Response is calibrated from implant onwards.⁴

Rest Rate

Real-time detection of sleep.⁵

Ψ INTELLIGENCE™

3

Simultaneous

Key algorithms can be activated individually or simultaneously.

Autonomous

AA detection is entirely autonomous whatever the settings of other functions.

SYMBIOTIC PROGRAMMING

Flexible

No settings interfere with high-intensity exercise.²

Efficient

No time wasted optimizing settings to solve programming conflicts.

Programming is driven only by hemodynamic needs. All therapeutic features are independently programmable, designed to work simultaneously together with no conflict.



RATIO DESIGN™

Size is golden.



Teo™ is the world's smallest pacemaker* with the best longevity per cc.^{6,7} Optimized electronic placement, low intrinsic consumption and ellipse-shape ensure no dead space, allowing MICROPORT™ CRM to achieve the ideal ratio between size, shape and longevity.

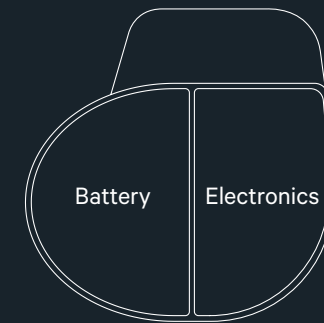
RATIO DESIGN™

Smallest⁶

Lightest⁶

Best longevity / cc⁷

High battery density⁸



Minimal intrinsic consumption

8 cc

Favours a smaller incision and reduced pocket size
Facilitates both primo implants and replacements
Boosts psychological adoption for patients

Ellipse Shape

Designed for natural lead wrap around
Facilitates insertion and lead connection
Rounded edges provide greater patient comfort

12 years longevity**

SafeR AV Management increases longevity⁹
Avoid complications due to risky replacement procedures^{9,10}

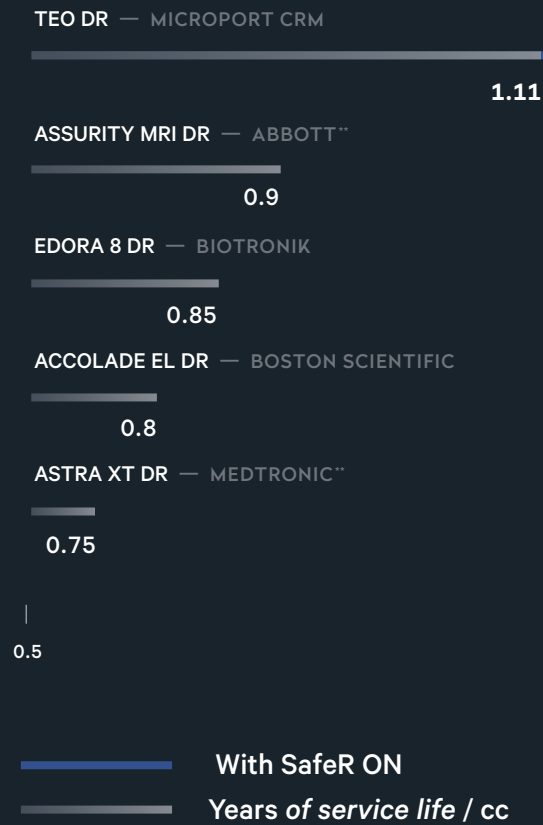
* TRANSVENOUS PACING SYSTEM.

** SAFER MODE (5% V PACING, 50% A PACING), 60min⁻¹, 2.5V, 0.4ms, 750Ω, SENSORS ON, EGM ON.

RATIO DESIGN™

Best longevity / cc.

Comparison across manufacturers based on 100% pacing^{*,7} shows that Teo™ delivers the best balance of extended longevity and small size.



* CONDITIONS DDDR MODE 100% A&V PACING 60min⁻¹, 2.5V, 0.4MS, 500 Ω, SENSOR G ON, EGMs ON
 ** CONDITIONS DDD MODE 100% A&V PACING 60min⁻¹, 2.5V, 0.4MS, 500 Ω, SENSOR G OFF, EGMs ON



1st

1.51

AUTOMRI™

Visit. Scan. Go.

More independence for cardiologists, radiologists and patients with greater flexibility in scheduling MRI scans, eliminating the need for post-scan follow ups.¹¹

AUTOMRI™

Cardiologists

- Device automatically switches in and out of MRI mode upon detection of MR field
- 10 days scan window allows greater scheduling flexibility
- Multiple MRI scans possible during the programmed window
- No need to accompany the patient during or after the scan
- No post MRI follow-up is needed

Radiologists

- MR sensor activates MRI mode upon detecting the magnetic field
- Device switches back to its optimal pacing mode automatically
- No intervention needed from the radiologist or cardiologist after the scan
- Patient is ready to leave the hospital without assistance

Patients

- Patient enjoys optimal pacing settings right up to and just after the scan
- Device automatically switches to asynchronous MRI mode only for the duration of the scan
- Protects the patient by keeping their time in asynchronous mode to an absolute minimum¹²
- Ensures patients don't leave the hospital in sub-optimal settings



AUTOMRI™

Ease the Workflow.



AUTOMRI™ comes as standard.

2014 Innovation award for AutoMRI technology
Longest experience in automatic MRI detection

✓ AutoMRI is available in all MICROPORT™ CRM MR conditional pacemakers.¹¹

1. Patient visits the cardiologist.

Cardiologist turns AutoMRI ON.



2. There is a 10 day window where the patient can have an MRI scan.

No limitation on the number of scans during these 10 days.
No need to return to the cardiologist for any additional check ups.
This allows for flexibility in scheduling MRI scans.



3. Patient enters MRI Scan.

Approaching and detecting the scanner, the device switches into asynchronous MRI mode.
Moving away from the scanner, 5 minutes after the patient leaves, the device switches back to the initial settings.



4. Patient can go home.

Without any assistance or intervention. No visit to cardiologist required, patient is free to go home autonomously.



Technical Specifications

Teo™

SR

DR

MR COMPATIBILITY 1.5 T AND 3 T

✓

✓

AUTOMRI™

✓

✓

[SAFER]™ - AAI ↔ DDD

✓

AUTOMATIC IMPLANT DETECTION

✓

✓

LEAD POLARITY SWITCH

✓

✓

[DUAL SENSOR] - MV+G

✓

✓

PHYSIOLOGICAL REST RATE

✓

✓

DPLUS AV HYSTERISIS

✓

ACCELERATION & AV DELAY SHORTENING

✓

ATRIAL OVERDRIVE

✓

SMARTCHECK

✓

✓

RESPIRATORY DISTURBANCE CURVES

✓

✓

AUTOTHRESHOLD

V

A & V

AUTOSENSING

A / V

A & V

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Manufactured in Europe by MicroPort CRM.

MICROPORT CRM S.R.L.
VIA CRESCENTINO S.N. 13040 SALUGGIA (VC)
ITALY