



External Cardiac Ambulatory Telemetry



THE NEXT GENERATION IN
ARRHYTHMIA DETECTION
AND ANALYSIS



External Cardiac Ambulatory Telemetry

SMALL AND COMFORTABLE MONITOR

- Real-time ECG analysis performed on-board Monitor increases likelihood of documenting breakthrough auto-triggered events.
- Patient-activated, auto-triggered, and trended ECG recordings actively sent wirelessly to Monitoring Center.
- Records and stores every heart beat for up to 30-days of continuous monitoring; areas of interest retrievable on-demand and can be presented in full-disclosure for professional analysis.
- LED status indicators for Monitoring, Battery, and Communication help patients use the monitor.
- Recessed "RECORD" button prevents patient from accidentally recording.



Heartrak ECAT Monitor
(actual size)



Continuous real-time ECG data analysis as patients go about their daily activities



Physician requested data actively sent wirelessly



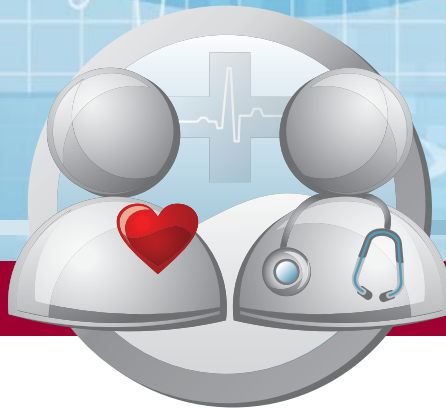
Communicator

VOICE AND DATA COMMUNICATOR

- Small, lightweight voice and data Communicator actively sends ECG data across AT&T's expansive 3G and EDGE wireless network.
- Voice services enable prompt, 2-way voice communication between patient and Monitoring Center.
- User-friendly screen displays messages to patients to ensure successful monitoring.



ECG data triaged by highly-trained, cardiac technicians



Timely reports for optimized patient treatment

CENTRAL MONITORING CENTER PROVIDES 24/7/365 DATA REVIEW

- Highly skilled cardiac technicians triage all ECG recordings and promptly prepare reports so that patient treatment decisions can be made without delay.
- Urgent or emergent events are confirmed by the Monitoring Center and Transmission Reports are immediately sent to the physician for review based on mutually agreed notification criteria.
- ECAT daily and study overview reports provide rapid review of monitoring results, graphing heart rate and cardiac rhythm data and trends.
- Doctors, clinicians and patients can access support at anytime for ECAT monitoring studies.





ECAT DAILY REPORT

Mednet/Heart-Care Service
275 Pollex Blvd., Ewing, NJ 08648
Telephone: (800) 222-2942 Fax: (800) 940-6937

Patient Information Name: JOHN JOHNSON ID #: ECAT 2672552857 T DOB: 2/18/1948 Sex: Male Diag: 427.31 Atrial Fibrillation*	Phone: Monitor Type: Heartrak ECAT Serial #: 12345678912	Physician Information I.F.#1: CENTRAL BUCKS SPECIALISTS I.F.#2: DR. GREG ADRIAN, M.D.
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3/25/2009 - Day 6 of 7 for Enrollment Period: 3/20/2009 - 3/27/2009

Heart Rate and AF Trending Graph

ECAT Observations Heart Rate Minimum: 56 b Maximum: 168 Average: 107	Activation Counters Daily Percentage
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ECAT END OF STUDY REPORT

Mednet/Heart-Care Service
275 Pollex Blvd., Ewing, NJ 08648
Telephone: (800) 222-2942 Fax: (800) 940-6937

Patient Information Name: JOHN JOHNSON ID #: ECAT 2672552857 T DOB: 2/18/1948 Sex: Male Diag: 427.31 Atrial Fibrillation*	Phone: Monitor Type: Heartrak ECAT Serial #: 12345678912	Physician Information I.F.#1: CENTRAL BUCKS SPECIALISTS I.F.#2: DR. GREG ADRIAN, M.D.
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Enrollment Period: 3/20/2009 - 3/27/2009 (8 days)

Heart Rate and AF Trending Graph

ECAT Observations Heart Rate Minimum: 56 b Maximum: 168 Average: 107	Activation Counters Patient Activations: 2 Auto-Triggers: 0
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Aggregated Daily Percentage

Mednet
Heartcare
Technologies

Physician Signature: _____

ECAT Transmission Report

Mednet/Heart-Care Service
275 Pollex Blvd., Ewing, NJ 08648
Telephone: (800) 222-2942 Fax: (800) 940-6937

Patient Information Name: JOHN JOHNSON ID #: ECAT 272299782 T DOB: 11/3/1946 Sex: Male Diag: 427.31 Atrial Fibrillation*	Phone: Monitor Type: Heartrak ECAT Serial #: 12345678912	Physician Information I.F.#1: CENTRAL BUCKS SPECIALISTS I.F.#2: DR. GREG ADRIAN, M.D.
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ECAT EPISODE 3/21/2009 05:26 PM EST Day 3 of 9 for Enrollment Period: 3/18/2009 - 3/27/2009

Symptoms: FLUTTERING/ SITTING Preliminary: ATRIAL FLUTTER Findings: NO VENTRICULAR ECTOPY VERBAL/ FAX TO DR. SANGROOLI	Measurements Rate: 144.0 - 153.0 PR(n): - QTc(n): 0.26 - 0.28 QRS(n): 0.05 - 0.06	Healthcare Technician Technician: _____
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Pre-Trigger Sample Recorded: 3/21/2009 04:10 PM EST

Post-Trigger Sample Recorded: 3/21/2009 04:10 PM EST

Heartrak ECAT Reports



External Cardiac Ambulatory Telemetry

ECAT MONITOR SPECIFICATIONS

PHYSICAL	
Dimensions	2.9 height x 2.1 width x .7 thickness (in) 7.4 height x 5.3 width x 1.8 thickness (cm)
Weight (with battery)	90 gm (3.17 oz)
WIRELESS TRANSMISSION	
Transmit mode	Bluetooth 2.0 SPP profile
Carrier RF range (open space)	10 m (32.8 ft)
ELECTRICAL	
Bandwidth	0.05 to 30 Hz
Sampling rate	205 Hz
ADC resolution	8 Bits
Input impedance (with supplied leads)	@5 Hz = 2 MOhms minimum
Leads	3,2 channels
MEMORY	
Total recording time	30 days continuous
Memory hold time	10 years minimum
BATTERY	
Type	1.5 V "AA" alkaline (1)
Life	5 days
Warranty	1 year



For more information, contact your Heartrak ECAT Sales Representative:

