

IT'S NOT HEART TO BE SAFE



THE NEW GENERATION **CARDIAID**

CardiAid introduces two new AEDs: Semi-automatic CardiAid CT0207RS and fully automatic CardiAid CT0207RF; improved with superior functions and impressive details. One more step towards perfection...



CardiAid CT0207RS
One-button operation to provide easier control for the rescuer.

CardiAid CT0207RF
Fully-automatic: No need to press the button to deliver the shock.



- Paediatric treatment possible using paediatric electrodes.
- Auto-recognition of paediatric mode when special electrodes are plugged in.
- Accurate ECG detection algorithm with high sensitivity and specificity.
- Current-based defibrillation technology for the most effective treatment.
- Improved illustrations and verbal instructions.
- Recording multi-events up to 3 hours.
- More than 20 language options.
- Easily adaptable to future changes in resuscitation guidelines with configurable functions like voice prompts, CPR duration, CPR sequence (30:2 or compressions-only); and chest compression frequency (100 to 120 bpm).
- Ready-to-communicate with a Gateway and able to send real-time self test results.
- New generation CardiAid Monitor 2 Technical Service Software offering a whole solution for all needs: Configuration, maintenance, troubleshooting, event data monitoring and many more.

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TECHNICAL SPECIFICATIONS

CardiAid CT0207RS/CT0207RF



Defibrillation System

Operating Mode:

Automated (CT0207RS: one button operation /CT0207RF: full-automatic).

Wave Form: Biphasic, current-based.

Energy Delivery:

Adjusted to patient impedance, Programmable (factory settings).

Delivered Energy - Adult Mode:

170J (Average for 50 Ω at low energy level).
270J (Average for 50 Ω at high energy level).

Delivered Energy - Paediatric Mode:

50J (Average for 50 Ω at low energy level).
75J (Average for 50 Ω at high energy level).

Shock Sequence:

Constant or escalating, Programmable (factory settings).

Charging Time:

Typically <10 seconds*, maximum <15 seconds.*

ECG Analysis System

Analysis Time: Typically <10 seconds.*

Derivation: II

Asystole Threshold: <0,160 mV

Specificity NSR / Asystole: >95**

Sensitivity VF / pVT: >90**

Reaction to Implanted Pacemaker:

Normal cardiac pacemaker rhythms are not detected as shockable.

Movement Detection:

Checks signal quality, gives acoustic warning at patient movement.

Operation

Operating Elements:

- Automatic switch-on when the cover is opened.
- Flashing shock button (one-button operation for CT0207RS, full-automatic operation for CT0207RF).
- Info-button.

Info Mode:

Announcement of the elapsed time and number of shocks since device started, when info-button is pressed.

Display Elements:

Self-explanatory illuminated symbols (traffic light principle). Device status indicator symbols (for self-test result).

Defibrillation Electrodes

Range of Application:

Adult electrodes for patients >8 years / 25kg.

Paediatric electrodes for patients 1-8 years / <25kg.

Delivery Status:

Disposable, self-adhesive, single-use electrodes; ready-to-use, sealed and packed with connector outside pouch.

Polarization:

Not polarized (Exchange acceptable).

Active Surface Area:

166cm² (adult), 86cm² (paediatric).

Cable Length: 130 cm.

Shelf Life: 30 months from the date of manufacture (adult).

Data Management

Event Documentation:

Automatic recording of ECG and event data in internal memory up to 4 sessions with a total maximum duration of 2 hours 50 minutes.

Data Transfer:

Bluetooth (only for authorized service partners).

Event Review and Device Programming:

Via Bluetooth connection to PC with CardiAid Monitor Software (only for authorized service partners).

Self-Test

Schedule:

Automatic; daily, monthly and when device is opened

Timing: Programmable (factory setting)

Scope: Battery, electronics, software, charging

Energy Source

Type: Alkaline

Capacity: Up to 210* shocks

Monitoring Capacity: Up to 20* hours

Stand-by Period: 2 Years

Environmental Conditions

Operation:

- Temperature: +5°C to +55°C
- Humidity: 0-95%
- Air Pressure: 572-1060h/PA

Storage and Transport

- Temperature: +5°C to +55°C
- Temperature: -20°C to +70°C (max 2 weeks, without battery & electrodes)
- Humidity: 0-95%
- Air Pressure: 500-1060h/PA

Standards

Device Class: IIb (93/42/EEC)

Resuscitation Protocol: ERC, ILCOR 2015

Norms: EN 60601-2-4:3rd edition, rare use,

EMC: DIN EN 60601-1-2:2007-12

Free Drop: IEC 601-1:1988+A1:
1991+A2:1995

Protection Class: IEC 529: IP55 (protected against dust and water jets)

Dimensions and Weight

Dimensions: 301 x 304 x 112mm

Weight: 3,1 kg (including battery and electrodes)

* Data are valid at 20°C with new, fully-charged batteries. Values can vary and are dependent upon storage and environmental conditions, frequency of use, pre-configured settings and the shelf life of the product.

** The algorithm and the board of CardiAid CT0207 AED offer the optimum combination of sensitivity and specificity. (Published in "Automated analysis of electrical signals of the human body for detecting of life threatening cardiac abnormalities", Igor Tchoudovski, Mensch and Buch Verlag, ISBN 3-89820-984-9, Pg 141)

Cardia International, at its own discretion, reserves the right to make changes pertaining to the technical features and the accessories of the device.

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Public Access Defibrillator

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