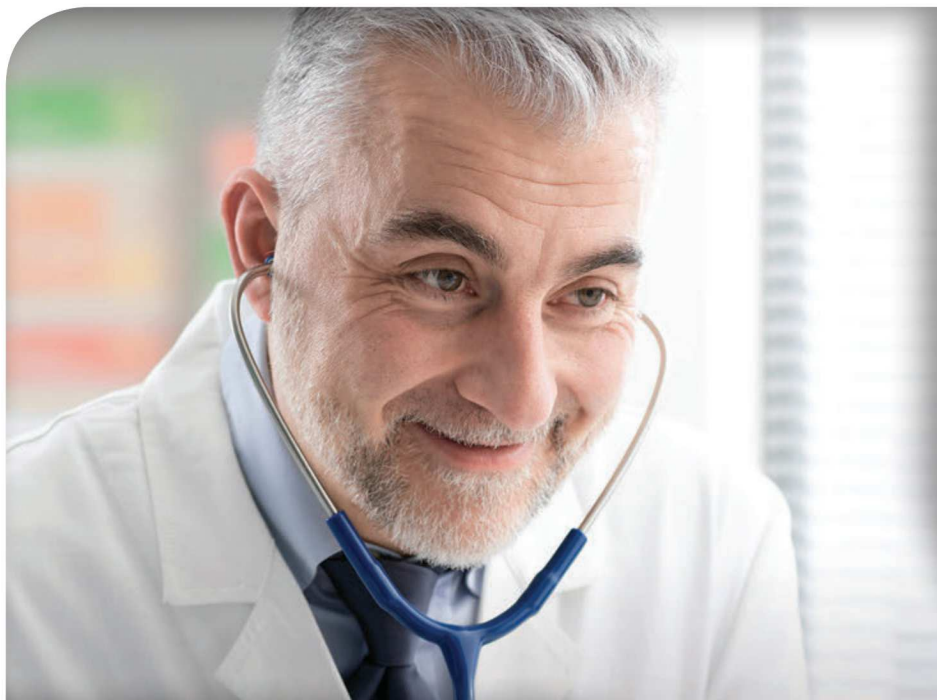


INSTRAMED



- DEFIBRILLATOR •
- AED •
- PACEMAKER •
- ECG •
- RESPIRATION •
- OXIMETRY •
- NIBP •
- CAPNOGRAPHY •
- PRINTER •
- CPR MAESTRO •

CARDIOMAX **8** SERIES

Biphasic
Defibrillator
Monitor and
Cardioverter



RTC
Real Time Check

Auto **CAS** Sequencing

SDP Sudden
Death
Prevention

biphasic
SHOCK

AVAILABLE PARAMETERS

- Real Time Check Technology (RTC)*
- Automated External Defibrillator Mode (AED)
- Sudden Death Prevention Mode (SDP)
- Cardiopulmonary Resuscitation Accessory (CPR Maestro)*
- Electrocardiogram (ECG) up to 12 derivations*

Complete, advanced, reliable and easy to use: definitely the best investment in emergency equipment.



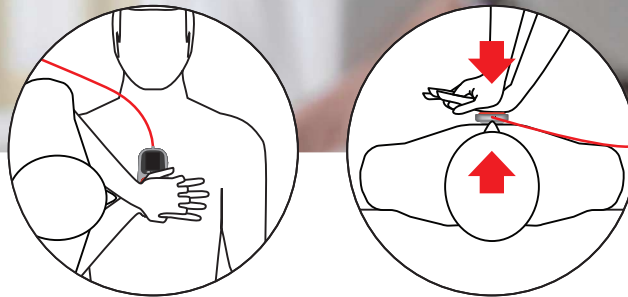
**Some items are optional - Please verify availability.*

- Oximetry (SpO₂)*
- Non invasive pacemaker*
- Non-invasive pressure (NIBP)*
- Capnography (EtCO₂)*
- Printer*
- Removable rechargeable battery

THE IDEAL PARTNER FOR YOUR CARDIOMAX

Positioned on the patient's chest, the CPR Maestro provides real-time feedback on the rescuer's performance by guiding him through voice, LCD display and indications on the CardioMax screen about the procedure's optimal frequency, strength and interval.

The result is a much more effective and consistent performance of CPR, resulting not only in increased chances of patient survival, but reducing the occurrence of severe sequelae due to lack of oxygenation.



CARDIOMAX 8 SERIES

PRACTICAL

- Light.
- Ready to use in less than 6 seconds.
- Biphasic power delivery of up to 360 J.
- AED Mode – Automated External Defibrillator.
- CPR Maestro assists in performing cardiopulmonary resuscitation by measuring the frequency and depth of the chest compressions applied (optional).
- Internal battery, easy to replace, allows more than 100 shocks.

EASY TO USE

- Easy to use - All operations centralized on just two buttons.
- Easy operation - 1, 2, 3 standard.
- Quick access to main functions.
- Easy-to-use user interface - automatically adjusts itself to the number of active parameters, presenting clear and organized information.
- Large 8.4" color display.

SMART

- Auto Sequencing Charge function - When enabled, applies charges pre-configured by the user for the first, second and third shocks without the need to change the selector manually.
- Smart monitoring alarms.
- Sudden Death Prevention (SDP) technology. This characteristic allows CardioMax to monitor the patient continually and identify the beginning of a Ventricular Fibrillation or Rapid Ventricular Tachycardia episode.

RELIABLE

- Reliability - Instramed is a brand present in hundreds of medical organizations on more than 60 countries.
- Dependable products developed for the reality of emergency care.
- A wide network of dealers providing sales and parts, along with the factory-certified technical assistance, provides excellent post-sales service.
- With more than 30 years in the business, Instramed is a manufacturer that maintains stock parts and components even for discontinued products.

KNOW MORE ABOUT THIS PRODUCT IN WWW.INSTRAMED.COM.BR

GENERAL SPECIFICATIONS

• Pads dimensions

- 30.0 cm (11.81 in) length.
- 21.5 cm (8.46 in) depth.
- 28.0 cm (11.02 in) height..

• Weight

- Device - 5.15 kg (11.35 lbs).
- Li-Ion battery - 0.60 kg (1.32 lbs).
- External pads - 0.85 kg (1.87 lbs).
- Complete set (Li-Ion battery) - 6.60 Kg (15.66 lbs) (except NIBP).

• Electrical

- AC: 100 to 220 VAC, 50/60 Hz.
- DC external: 11 to 16 VDC.

• Removable rechargeable battery

- Type: Li-Ion, 14.4 VDC 4 A/h.
- Duration: battery with full charge - 3 hours in monitor mode, without printer, or a minimum of 140 shocks at 360 J or a minimum of 200 shocks at 200 J.
- Battery full-charge time (when fully depleted): 4h 30min.
- Type: Li-Ion, 14.4 VDC 6 A/h.
- Duration: battery with full charge - 6.5 hours in monitor mode, without printer, or a minimum of 250 shocks at 360 J or a minimum of 400 shocks at 200 J.
- Battery full-charge time (when fully depleted): 7h 20min.

**Check availability.

• Memory

- Type: Nand Flash.
- Capacity: 2 Mbytes.
- Patients stored: >150 patients.
- ECG: 2 continuous hours of ECG curve recording, when in AED mode.
- Storage: 15 seconds of ECG when in shock, physiological alarm and panel events.

• RTC - Real Time Check (Available when equipped with optional Li-ion battery)

- Defibrillation self-test, battery level, connected pads, power source connection check. Check is performed 3 times which are set in advance. This information is wirelessly transmitted to a PC with RTC System software installed and within range of the network.

ENVIRONMENTAL SPECIFICATIONS

• Temperature

- Operational: 0 to 50 °C.
- Storage: -20 to 50 °C.

• Humidity

- Operational: 10 to 95% RH without condensation.
- Storage: 10 to 95% RH, without condensation.

• IP rating

- IPX1 (standard) or IP44 (optional).

DEFIBRILLATOR

• Waveform

- Biphasic truncated exponential. Waveform parameters adjusted in terms of patient's impedance.

• Shock application

- By means of multifunctional pads (adhesive) or defibrillation pads.

• Scales for adult/external defibrillation

- Scales: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 50, 80, 100, 150, 200, 250, 300 and 360 J (maximum power can be limited to 200 J). Maximum power limited to 50 J for children's pads.
- Commands: On/Off button, charge, shock, synchronise.
- Energy selection: selector switch in front panel.
- Charge command: button in front panel or buttons in external pads.
- Shock command: button in front panel or buttons in external pads.
- Synchronized command: sync button in front panel.

• Charge auto-sequencing

- When enabled, it charges power previously set by the user for the first, second and third shocks, with no need to manually adjust the selector.

• Maximum charge time in maximum energy

- < 6 seconds with 90% to 100% of the minimum specified voltage.
- < 6 seconds with a full charge.
- < 13 seconds from equipment initialization.

• Charge indicators

- Audio indication of equipment being charged.
- Audio indication of charge completed.
- LED on external pads and charge level indicated on display.

• External pads size

- Adult = 10.3 cm x 8.5 cm. Contact area = 81.9 cm².
- Children = 4.5 cm x 4 cm. Contact area = 18 cm².

• Cardioversion

- < 60 ms.

• Pads

- Adult and child external (included).
- Adult and child external (optional).
- Multifunctional for pacemaker, monitoring and defibrillation (optional).
- Multifunctional extension (optional).

AED MODULE

• Functional characteristics

- Voice instructions, visual indications, CPR instructions, USB 2.0. Multilanguage.

• USB

- USB 2.0 for transfer of the electrocardiogram stored in AED mode to a compatible PC.

• SoftDEA

- Software for viewing the data transferred to the PC.

• Maximum charge time

- 50 J: 2 seconds.
- 150 J: 4 seconds.
- 200 J: 6 seconds.

EXTERNAL (OPTIONAL)

• Modes

- Demand or fixed.

• Amplitude

- From 5 mA to 200 mA (resolution of 5 mA), accuracy 10%.

• Pulse width

- 20 ms (tolerance of 10%).

• Frequency

- From 30 PPM to 180 PPM (increments of 5 PPM), accuracy $\pm 2\%$.

• Refractory period

- 340 ms (from 30 to 80 PPM).
- 240 ms (from 90 to 180 PPM).

NIBP (OPTIONAL)

• Operating principle

- Oscillometric.

• Automatic mode

- 1, 2, 3, 4, 5, 10, 15, 30, 60 and 90 minutes.

• Manual mode

- One measurement.

• Measurement interval

- Adult range**
 - Systolic: 40 - 260 mmHg.
 - Mean: 26 - 220 mmHg.
 - Diastolic: 20 - 200 mmHg.
- Pediatric range**
 - Systolic: 40 - 160 mmHg.
 - Mean: 26 - 133 mmHg.
 - Diastolic: 20 - 120 mmHg.
- Neonatal range**
 - Systolic: 40 - 130 mmHg.
 - Mean: 26 - 110 mmHg.
 - Diastolic: 20 - 100 mmHg.

• Overpressure limit by software

- Adult: 290 mmHg max.
- Neonate: 145 mmHg max.

• Overpressure protection by hardware

- Adult: 300 $\pm$ mmHg.
- Neonate: 150 $\pm$ mmHg.

• Resolution

- 1 mmHg.

CPR MAESTRO (OPTIONAL)

• Accessory for Cardiopulmonary Resuscitation (CPR)

- Feedback of the thoracic compressions.

DISPLAY

• Battery level indicator

- Yes.

• Size

- 128.2 mm x 170.9 mm.

• Diagonal

- 8.4".

• Type

- Color LCD TFT.

• Resolution

- 640 x 480 pixels (VGA).

• Scan speed

- 6.25, 12.5, 25 e 50 mm/s.

ECG (supports up to 12 simultaneous derivations when equipped with optional module)

• Inputs

- 3 or 5 lead ECG cable.
- 10 lead ECG cable (optional).
- External pads.
- Multifunctional pads.

• Range

- 15 to 350 BPM.

• Precision

- ± 1 BPM from 15 to 350 BPM.

• Rejection in common mode

- Higher than 90 dB, in compliance with the AAMI standards for heart monitors (EC 13).

• Sensitivity

- 5, 10, 15, 20, 30 and 40 mm/mV.

• AC line filter

- 60 Hz or 50 Hz.

• ECG response frequency

- Diagnostic mode: 0.05 -100 Hz.
- Monitor mode: 1 - 40 Hz.

• Patient insulation

- Defibrillation proof.
- ECG: CF type.
- SpO₂: CF type.

• Loose electrode

- Identified and shown with low level alarm.

• Time to re-establish the ECG baseline after defibrillation:

- ≤ 3 seconds.

SpO₂ (OPTIONAL)

• SpO₂ range

- 0 to 100%.

• Pulse range

- 30 to 250 BPM.

• SpO₂ precision

- $\pm 2\%$ from 70 to 100%.
- $\pm 3\%$ from 50 to 69%.

• Pulse precision

- ± 2 BPM.

CAPNOGRAPHY (OPTIONAL)

• CO₂ measurement interval

- 0 - 99 mmHg.

• Precision

- ± 2 mmHg (0 - 38 mmHg).
- $\pm 5\% + 0.08\%$. For each 1 mmHg above 38 mmHg (39 - 99mmHg).

• Consumption

- 1.5 W.

• Compensation

- BTPS, N₂O and O₂.

PRINTER (OPTIONAL)

- Prints up to three simultaneous derivations.

• Type

- Thermal.

• Weight

- 0,104 Kg.

• Speed

- 25 or 50 mm/s with $\pm 5\%$ precision.

• Paper size

- 58 mm (width) x 15 m (maximum length).

STANDARD

- NBR IEC 60601-1
- NBR IEC 60601-1 2
- NBR IEC 60601-1 4
- NBR IEC 60601-1-6
- NBR IEC 60601-1-8
- NBR IEC 60601-2-4
- NBR IEC 60601-2-27
- NBR IEC 60601-2-30
- NBR IEC 60601-2-49 or equivalent IECs.

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Some items are optional. Please verify availability.



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