Defibtech DDU-2000 Series
Automated External Defibrillator

• DDU-2300
• DDU-2450

Operating Guide
For concise guidance on set-up, use, maintenance and technical specifications
This Operating Guide is to be used for concise guidance on set-up, use, maintenance and technical specifications on DDU-2000 Series AEDs.

For comprehensive training on set-up, use and maintenance as well as complete technical specifications, refer to the User Manual at www.defibtech.com.
QUICK USE INSTRUCTIONS

1. PRESS “ON” BUTTON

2. APPLY PADS

3. FOLLOW AED INSTRUCTIONS

WHEN TO USE

INDICATIONS
The DDU-2000 Series Automated External Defibrillator (AED) is indicated for use on victims of sudden cardiac arrest (SCA) who are:

- Unconscious and unresponsive
- Not breathing or not breathing normally

For patients under 8 years old, or weighing less than 55 lbs (25 kg), use child/infant defibrillation pads, if available. Do not delay therapy to determine exact age or weight. Apply the pads as shown for a child/infant and use the AED.

Federal Law (USA) restricts this device to sale by or on the order of a physician.

CONTRAINDICATIONS
None.

OPERATOR TRAINING REQUIREMENTS
In order to safely and effectively operate the DDU-2000 Series AED, a person shall have met the following requirements:

- Defibtech DDU-2000 Series AED and/or defibrillation training as required by local, state, provincial, or national regulations.
- Any additional training as required by the authorizing physician.
- Thorough knowledge and understanding of the material presented in the User Manual (available for viewing/download at www.defibtech.com).

ECG Monitor Mode (DDU-2450 only) is intended to be used by personnel trained in basic life and/or advanced life support, or other physician-authorized emergency medical training.

For more detailed information, refer to the User Manual (at www.defibtech.com).
DIAGRAM OF COMPONENTS

- **Pads Connector Socket** – Socket for pads connector
- **Active Status Indicator (ASI)** – Indicates the current status of the AED
- **ON/OFF Button** – Turns AED on and off
- **Display Screen** – Displays video, text prompts and information
- **SHOCK Button** – Flashes when a shock is advised. Pressing this button will deliver a shock when the button is flashing.
- **Softkey Buttons** (Top, Center, Bottom) – Buttons used to navigate menus or select options
- **USB Port**
- **Defibtech Data Card (DDC Card)** (Optional)
- **USB and Defibtech Data Card (DDC Card) Access Door** – Access to the USB connector port and Defibtech Data Card slot
- **Speaker**
- **Battery Pack Opening**
- **Pad Storage Area**
- **Defibtech DDU-2000 Series Automated External Defibrillator** – DDU-2300, DDU-2450

**FRONT OF AED**

**OPERATING GUIDE**
(For more detailed information, refer to the User Manual at www.defibtech.com)

**BACK OF AED**

**BATTERY PACK**

**DEFIBRILLATION PADS PACKAGE**

**ECG MONITORING ADAPTER**
(Optional; DDU-2450 only)
The DDU-2000 Series AED is designed to be stored in a “ready” state so that few steps are required to begin using the AED.

1. CONNECT THE PADS TO THE AED

Ensure that the pads package has not expired. Expired pads must not be used.
For more information, refer to page 15.

2. INSTALL THE BATTERY PACK

Ensure that the battery pack has not expired. Expired battery packs must not be used.
When the battery pack is installed, the AED will turn on and run a battery pack test. Wait for the test to complete and for the unit to turn off.
For more information, refer to page 16.

3. CHECK THE STATUS

With the AED off, press and release the CENTER softkey button. Ensure that the AED Status screen appears and that the “AED Status” is “OK”.

AND

When the AED is off, the Active Status Indicator (ASI) should flash green. If the ASI flashes red, is solid red, or if there is no flashing light, the unit requires service.

For more information, refer to page 18.

4. READ THE USER MANUAL

(at www.defibtech.com)

Comprehensive information about the DDU-2000 Series AED can be found in the User Manual (at www.defibtech.com).
USING THE AED

If the patient is unconscious or unresponsive, and is not breathing or not breathing normally, ensure emergency medical assistance has been called and start using the AED.

**TURN AED ON**

1

Press “ON/OFF” button to turn AED on. Follow the voice and onscreen instructions.

*(NOTE: To power off the AED at any time, press and hold the ON/OFF button for approximately 2 seconds.)*

**PREPARE THE PATIENT**

2

Remove clothing from patient’s chest.
If necessary, dry chest and remove excess chest hair.

**PREPARE PADS**

3

Peel adhesive pads from blue liner.
Tear open pads package.

**PLACE PADS**

4

Apply pads to patient’s bare chest.
For more information, refer to page 15.

*Note:* When this Information Softkey Icon is present on the screen, the user may press the corresponding softkey button for additional information with video instruction. To exit, press the softkey button again.

For more detailed information, refer to the User Manual (at www.defibtech.com).
5. **STAND CLEAR**

When instructed, do not touch the patient.

6. **IF INSTRUCTED, PRESS SHOCK BUTTON**

If instructed, press “SHOCK” button.

7. **PERFORM CPR**

Follow instructions to perform CPR, if needed.

8. **CONTINUE TO FOLLOW INSTRUCTIONS**

Continue to follow the voice and onscreen instructions.

**Note**: When this Information Softkey Icon is present on the screen, the user may press the corresponding softkey button for additional information with video instruction. To exit, press the softkey button again.

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For more detailed information, refer to the User Manual (at www.defibtech.com).
**SELECTING ECG DISPLAY**

The DDU-2450 allows the user to display the patient ECG when the unit is being used as an AED.

To select ECG display, press the bottom softkey button next to the **Mode Select Icon** (shown at left) to bring up the **Mode of Operation** screen (shown at right).

Press the corresponding softkey (bottom button) to select **AED / ECG Mode**.

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**WARNING**

The ECG Display provides non-diagnostic ECG of the patient’s heart rhythm. It is not intended to provide diagnostic or ST segment interpretation.

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**USING THE 3-LEAD ECG MONITORING ADAPTER**

The DDU-2450 allows the user to perform 3-lead monitoring using the optional ECG Monitoring Adapter (DAC-2020/2021).

To enable ECG Monitor Mode, unplug the defibrillation pads and plug the ECG Monitoring Adapter into the pads connector socket. The AED will automatically switch to ECG Monitor Mode.

To perform a rescue, unplug the ECG Monitoring Adapter and plug in the defibrillation pads.

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**HOW TO CONNECT THE PADS**

Insert the connector end of the defibrillation pad cable into the pads connector socket on the top-left corner of the DDU-2000 Series AED as shown. Insert pads connector firmly until it is fully seated in the unit. The connector will only fit in one way – if the connector does not fit, rotate the connector before trying again.

The connected pads package should be stored in the pad storage area on the back of the DDU-2000 Series AED (see diagram on page 7). After connecting the pads connector to the unit, push the pads package, rounded end first, with the pictures on the package facing out, into the pad storage area. When the pads package is fully inserted, press the pad cable into the groove in the back of the unit to hold the cable in place and tuck any excess cable behind the pads package.

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**WHICH PADS TO USE**

For adults and children 8 years or older or over 55 pounds (25 kg), use adult pads.

For infants and children under 8 years or less than 55 pounds (25 kg), use child/infant pads.

(Note: child/infant pads can be identified by their blue connector and blue pads package)

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**WHEN TO REPLACE THE PADS**

The Defibtech defibrillation pads are intended for one time use only. The pads must be replaced after each use or if the package has been damaged.

It is important to check the expiration date of the pads. Do not use pads past their expiration date. Discard expired pads. Use only Defibtech defibrillation pads.

You may check the status of the pads when the unit is off by pressing the center softkey button to display the AED Status screen.

The expiration date is also printed on the outside of the sealed package.

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*For more detailed information, refer to the User Manual (at www.defibtech.com).*
THE BATTERY PACK

HOW TO INSERT AND REMOVE THE BATTERY PACK

Before inserting the battery pack into the DDU-2000 Series AED, ensure that the battery pack opening in the back of the AED is clean and clear of any foreign objects. Insert the battery pack into the opening in the back of the AED.

Push the pack all the way in until the latch clicks. The battery pack will only fit in one way. If the battery pack does not fit, rotate the battery pack before trying again. Once fully inserted, the battery pack surface should be flush with the back of the AED. Within moments of insertion, the DDU-2000 Series AED will turn on and run a battery pack insertion test. When the test is completed, the unit will report the status of the battery pack and shut down. (Note: The battery pack must have been removed from the unit for at least 10 seconds for the battery pack self-test to be performed automatically.)

To remove the battery pack, push the battery pack eject release latch. After the battery pack is partially ejected, pull the battery pack out.

WHEN TO REPLACE THE BATTERY PACK

It is important to check the expiration date of the battery pack. The battery pack should be used before the expiration date. When the battery pack is low, the unit will indicate “battery low” or “replace battery now” and the Active Status Indicator will flash red. The battery pack should be replaced immediately. Use only Defibtech battery packs.

You may check the status of the battery pack when the unit is off by pressing the center softkey button to display the AED Status Screen. The expiration date is also printed on the label on the battery pack as shown at right.

THE DEFIBTECH DATA CARD (OPTIONAL)

HOW TO INSERT AND REMOVE THE DEFIBTECH DATA CARD

The optional Defibtech Data Card (DDC card) is used to store event and audio information collected by the AED. All DDU-2000 Series AEDs will operate without DDC cards and will still store select event information internally. Information stored on the DDC card is retrievable with a separate Defibtech PC-based software package. (Refer to the “DefibView” section of the DDU-2000 Series User Manual available at www.defibtech.com.)

Before installing the DDC card, ensure the AED is turned OFF. Locate the data card/USB port access door on the right-hand side of the unit. Open the data card/USB port access door by slightly pushing and then sliding the door down to release the latch. The door will spring open. Insert the DDC card into the thin slot in the side of the AED centered above the USB port opening, notched end first, label side up, until it clicks into place. The card should be flush with the surface of the slot. If the card does not push in all the way, it may have been inserted upside down. In that case, remove the card, flip it over, and try inserting it again.

To remove the DDC card, press the card as far as it will go and then release. Upon release, the DDC card will be partially ejected and can be removed by pulling the DDC card the rest of the way out.

Close the data card/USB port access door by closing and then pushing the door up until the door latch engages.

Using non-Defibtech Data Cards (DDC cards) may damage the unit and will void the warranty.
ACTIVE STATUS INDICATOR (ASI)

The Active Status Indicator (ASI) should be visually checked on a regular basis to ensure that the AED is ready for use. The ASI should flash green. If the ASI flashes red, is solid red, or if there is no flashing light, the unit requires service. The unit will also “beep” periodically to call attention to itself when the ASI is flashing red.

- **Flashing Green**: The DDU-2000 Series AED is OFF and ready for use.
- **Solid Green**: The DDU-2000 Series AED is ON and ready for use.
- **Flashing or Solid Red**: The DDU-2000 Series AED needs immediate service. Refer to “Troubleshooting” on page 22 or call Defibtech for service.
- **No Flashing Light**: The DDU-2000 Series AED needs immediate service. Refer to “Troubleshooting” on page 22 or call Defibtech for service.

AED STATUS SCREEN

The AED Status screen is used to provide a quick overview of the DDU-2000 Series AED’s status and to display select information without turning the unit on for a rescue.

With the AED off, press and release the CENTER softkey button to display the AED Status screen. The AED Status screen will briefly be displayed.

If the unit does not turn on at all, check to make sure a good battery pack is installed (refer to “Troubleshooting” on page 22).

ROUTINE MAINTENANCE

The DDU-2000 Series AED is designed to be very low maintenance. Simple maintenance tasks are recommended to be performed regularly to ensure its readiness (see sample maintenance table below). Different maintenance intervals may be appropriate depending on the environment where the AED is deployed, and ultimately the maintenance program is at the discretion of the emergency response program’s medical director.

<table>
<thead>
<tr>
<th>Daily</th>
<th>Monthly</th>
<th>After Each Use</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check that the Active Status Indicator is flashing green</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check the condition of the unit and accessories</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Run manually initiated self-test</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Replace pads</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check pad and battery pack expiration dates</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check the DDC card, if one was installed</td>
</tr>
</tbody>
</table>

**Note**: If the unit has been dropped, mishandled, or abused, a manually-initiated self-test should be performed.

If the unit still requires attention after a manually-initiated self-test has been performed, refer to “Troubleshooting” on page 22 or call Defibtech for service. For contact information, refer to the “Contacts” section on page 32.

MAINTENANCE MODE (AED Main Menu)

Maintenance Mode permits the user to perform maintenance-related actions, such as viewing unit information, initiating unit self-tests, changing unit parameters, downloading rescue data, and upgrading software.

To enter Maintenance Mode, press the bottom softkey button to the right of the Tool Icon (shown at left) on the AED Status screen (for instructions on how to access the AED Status screen, see previous page). The AED Main Menu will now be displayed, as shown at right. If the AED is needed to perform a rescue while in Maintenance Mode, navigate to and select the “Rescue now” menu option.

For more detailed information, refer to the User Manual (at www.defibtech.com).
**MAINTENANCE MODE (AED Maintenance)**

The AED Maintenance screen allows the user to select such options as AED tests, software upgrades, data backups, and data card functions.

For detailed information about each of the functions that can be accessed from this screen, refer to the DDU-2000 Series User Manual, which can be viewed at or downloaded from www.defibtech.com.

**MAINTENANCE MODE (AED Options)**

The AED Options screen allows the user to manually configure AED options such as time, date, volume, and audio recording.

For detailed information about each of the functions that can be accessed from this screen, refer to the DDU-2000 Series User Manual, which can be viewed at or downloaded from www.defibtech.com.

**MAINTENANCE MODE (Rescue Options)**

The Rescue Options screen allows the user to manually configure rescue options such as rescue protocol and CPR breathing. *(Note: The “Default view” option is only available on DDU-2450 units.)*

For detailed information about the functions that can be accessed from this screen, refer to the DDU-2000 Series User Manual at www.defibtech.com.

**CLEANING**

After each use, clean the DDU-2000 Series AED of any dirt or contaminants on the case and connector socket. The following are important guidelines to be adhered to when cleaning the device: *(Also applies to ECG Monitoring Adapter, DAC-2020/2021)*

- The battery pack should be installed when cleaning the DDU-2000 Series AED.
- Do not immerse the DDU-2000 Series AED in fluids or allow fluids to enter the unit.
- Do not spray cleaning solutions directly on the unit or its connectors.
- Do not use abrasive materials or strong solvents such as acetone or acetone based cleaning agents.
- To wipe the DDU-2000 Series AED’s case clean, use a soft cloth dampened with one of the following recommended cleaning agents:
  - Soapy water
  - Ammonia based cleaners
  - Hydrogen peroxide
  - Isopropyl alcohol (70 percent solution)
  - Chlorine bleach (30 ml/liter water)

- Ensure that the connector socket is completely dry before reinstalling the pads cable. After cleaning, allow the unit to completely dry. Before returning it to service, always check the AED operational status (refer to “AED Status Screen” on page 18).

Please note that none of the items provided with the DDU-2000 Series AED (including the AED itself) are sterile or require sterilization.

![WARNING]

Do not sterilize the DDU-2000 Series AED or its accessories.
The following table lists the symptoms, the possible causes, and the possible corrective actions for common problems. Refer to the User Manual (available at www.defibtech.com) for detailed explanations on how to implement the corrective actions. If the unit continues to be non-functional, call Defibtech for service (refer to the “Contacts” section on page 32).

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit will not turn on</td>
<td>Battery pack not inserted</td>
<td>Insert battery pack</td>
</tr>
<tr>
<td></td>
<td>Battery pack depleted or needs servicing</td>
<td>Replace battery pack or call for service</td>
</tr>
<tr>
<td></td>
<td>Unit needs servicing</td>
<td>Call for service</td>
</tr>
<tr>
<td>Unit immediately turns off</td>
<td>Battery pack depleted</td>
<td>Replace battery pack</td>
</tr>
<tr>
<td></td>
<td>Unit needs servicing</td>
<td>Call for service</td>
</tr>
<tr>
<td>ASI flashes red and/or unit makes periodic “beep” sound</td>
<td>Unit needs servicing</td>
<td>Go to AED Status Screen by pressing the CENTER softkey button or call for service</td>
</tr>
<tr>
<td></td>
<td>Battery pack non-functional</td>
<td>Replace battery pack</td>
</tr>
<tr>
<td></td>
<td>Defibrillation pads are not pre-connected to unit</td>
<td>Connect defibrillation pads to unit</td>
</tr>
<tr>
<td></td>
<td>Defibrillation pads or battery pack expired</td>
<td>Replace expired component</td>
</tr>
<tr>
<td>ASI does not flash at all while the unit is in standby (powered off)</td>
<td>Battery pack not inserted</td>
<td>Insert battery pack</td>
</tr>
<tr>
<td></td>
<td>Battery pack low or needs servicing</td>
<td>Replace battery pack or call for service</td>
</tr>
<tr>
<td></td>
<td>Unit needs servicing</td>
<td>Call for service</td>
</tr>
<tr>
<td>“Power on test failed, service code ‘xxxx’” prompt</td>
<td>Unit needs servicing</td>
<td>Record code number and call for service</td>
</tr>
<tr>
<td>“Battery test failed, service code ‘xxxx’” prompt</td>
<td>Battery pack needs servicing</td>
<td>Record code number and call for service</td>
</tr>
<tr>
<td>“Service required” prompt</td>
<td>Unit needs servicing</td>
<td>Call for service</td>
</tr>
<tr>
<td>“Replace battery now” prompt</td>
<td>Battery pack capacity is critically low</td>
<td>Unit may not deliver a shock, replace battery pack immediately</td>
</tr>
<tr>
<td>“Battery low” prompt</td>
<td>Battery pack capacity is getting low</td>
<td>Replace battery pack as soon as possible</td>
</tr>
<tr>
<td></td>
<td>Battery pack depleted</td>
<td>Replace battery pack</td>
</tr>
<tr>
<td></td>
<td>Battery pack not inserted properly</td>
<td>Make sure battery pack is oriented correctly and fully inserted</td>
</tr>
<tr>
<td></td>
<td>Unit needs servicing</td>
<td>Call for service</td>
</tr>
</tbody>
</table>

**For more detailed information, refer to the User Manual (at www.defibtech.com).**
DANGERS:
Immediate hazards that will result in serious personal injury or death.

- Hazardous electrical output. This equipment is for use only by qualified personnel.
- Possible fire or explosion. Do not use in the presence of flammable gases or anesthetics. Use care when operating this device close to oxygen sources (such as bag-valve-mask devices or ventilator tubing). Turn off gas source or move source away from patient during defibrillation, if necessary.
- The DDU-2000 Series AED has not been evaluated or approved for use in hazardous locations as defined in the National Electric Code standard. In compliance with IEC classification, the DDU-2000 Series AED is not to be used in the presence of flammable substance/air mixtures.

WARNINGS: (continued)
- Do not immerse battery pack in water or other liquids. Immersion in fluids may result in fire or explosion.
- Do not let fluids get into the DDU-2000 Series AED. Avoid spilling fluids on the AED or its accessories. Spilling fluids into the DDU-2000 Series AED may damage it or cause a fire or shock hazard.
- Do not sterilize the DDU-2000 Series AED or its accessories.
- Use only Defibtech disposable self-adhesive defibrillation pads, battery packs, and other accessories supplied by Defibtech or its authorized distributors. Substitution of non-Defibtech approved accessories may cause the device to perform improperly.
- Do not open sealed pads package until pads are to be used.
- Do not touch the patient during defibrillation. Defibrillation current can cause operator or bystander injury.
- Do not allow pads to touch metal objects or equipment in contact with the patient. Do not touch equipment connected to the patient during defibrillation. Disconnect other electrical equipment from the patient before defibrillation.
- Do not shock with defibrillation pads touching each other. Do not shock with gel surface exposed.
- Do not allow defibrillation pads to touch each other, or to touch other ECG electrodes, lead wires, dressings, transdermal patches, etc. Such contact can cause electrical arcing and patient skin burns during defibrillation and may divert defibrillating energy away from the heart.
- The defibrillation pads are intended for one time use only and must be discarded after use. If you know the patient has an implanted pacemaker, do not place electrodes directly over an implanted device.
- Using non-Defibtech approved accessories.
- Unprotected electrical equipment may result in minor personal injury, damage to that equipment.
- The defibrillation pads should not be in continuous contact with the patient’s skin for more than 24 hours.
- Recycle or dispose of lithium battery packs in accordance with local, state, provincial, and/or national regulations. To avoid fire and explosion hazard, do not burn or incinerate the battery pack. Do not crush.
- Use and store the DDU-2000 Series AED only within the range of environmental conditions specified in the technical specifications.
- If possible, disconnect the DDU-2000 Series AED from the patient prior to use of other defibrillators.
- Do not connect the DDU-2000 Series AED to a PC or other device (using the USB port) while the unit’s electrodes are still connected to the patient.
- The DDU-2000 Series AED is designed for a wide variety of field use conditions, rough handling beyond specifications may result in damage to the unit.
- Federal Law (USA) restricts this device to sale by or on the order of a physician.

For more detailed information, refer to the User Manual (at www.defibtech.com).

CAUTIONS:
Conditions, hazards, or unsafe practices that may result in minor personal injury, damage to the DDU-2000 Series AED, or loss of data.

- Follow all battery pack labeling instructions. Do not install battery packs after the expiration date.
- Follow all defibrillation pad label instructions. Use defibrillation pads prior to their expiration date. Do not re-use defibrillation pads. Discard defibrillation pads after use (in the event of suspected pad malfunction, return pads to Defibtech for testing).
- The defibrillation pads should not be in continuous contact with the patient’s skin for more than 24 hours.
- Improper use can cause injury. Use the DDU-2000 Series AED only as instructed in the User Manual and Operating Guide. The DDU-2000 Series AED delivers electrical energy that can potentially cause death or injury if it is used or discharged improperly.
- Improper maintenance can cause the DDU-2000 Series AED not to function. Maintain the DDU-2000 Series AED only as described in the User Manual. The AED contains no user serviceable parts – do not take the unit apart.
- No modification of this equipment is allowed.
- Electrical Shock Hazard. Dangerous high voltages and currents are present. Do not open unit, remove cover (or back), or attempt repair. There are no user serviceable components in the DDU-2000 Series AED. Refer servicing to qualified service personnel.
- DBP-2003 and DBP-2013 battery packs are not rechargeable. Any attempt to recharge these battery packs may result in fire or explosion.
- Federal Law (USA) restricts this device to sale by or on the order of a physician.
DEFIBRILLATOR

ENERGY
- Adult: 150 Joules
- Child/Infant: 50 Joules

CHARGE TIME
4 seconds or less (from shock advised)**

CONTROLS
Lighted ON/OFF button
Lighted Shock button

DISPLAY
High-resolution color LCD

DEFIBRILLATION / MONITORING PADS

MODEL
- Adult: DDP-2001
- Child/Infant: DDP-2002

SURFACE AREA
- Adult: 12 inches² (77cm²)
- Child/Infant: 7.75 inches² (60cm²)

TYPE
- Pre-connected, single-use, non-polarized, disposable, self-adhesive electrodes with cable and connector

EVENT DOCUMENTATION

INTERNAL EVENT RECORD
Select ECG segments and rescue event parameters are recorded and can be downloaded to a removable data card.

PC-BASED EVENT REVIEW
- ECG with event tag display, and audio playback when available.
- Up to 30 hours of ECG and event data storage (no audio option) or up to 3 hours of audio (audio option). ECG and event storage on a removable data card. Actual length of storage is dependent on card capacity. Data card must already be installed at the time of event.

USB PORT
- Event download and maintenance operations

ENVIRONMENTAL

TEMPERATURE
- Operating: 0 to 50°C (32 to 122°F)
- One Hour Operating Temperature Limit (extreme cold)* -20°C (-4°F)
- Standby: 0 to 50°C (32 to 122°F)

RELATIVE HUMIDITY
- Operating/Standby: 5%-95% (non-condensing)

ALTIMETER
-500 to 15,000 ft (-150 to 4500 m)

VIBRATION
- 3x Normals Gs peak (from motion video)
- 2x Normals Gs peak (with 3-lead electrodes)

SEALING/WATER RESISTANCE
- IEC 60529 class IP65:
- Dust protected, Protected against water jets (battery pack installed)

EMC (Immunity)
- IEC 61000-4-2: (Open air up to 15kV or direct contact up to 8kV)

EMC (Emission)
- CISPR 11 Group 1 Level B and FCC Part 15

PHYSICAL

WEIGHT
- Less than 3 lbs (1.4kg) (with battery)

For more detailed information, refer to the User Manual (at www.defibtech.com).
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>High voltage present.</td>
</tr>
<tr>
<td>⚡</td>
<td>SHOCK Button – Delivers defibrillation shock to the patient when the device is ready to shock.</td>
</tr>
<tr>
<td>!</td>
<td>Caution, consult accompanying documents.</td>
</tr>
<tr>
<td>ON/OFF/DISARM Button –</td>
<td></td>
</tr>
<tr>
<td>•</td>
<td>Turns the device ON when it is OFF</td>
</tr>
<tr>
<td>•</td>
<td>Turns the device OFF when it is ON.</td>
</tr>
<tr>
<td>✅</td>
<td>Do not expose to high heat or open flame. Do not incinerate.</td>
</tr>
<tr>
<td>🔄</td>
<td>Recyclable.</td>
</tr>
<tr>
<td>📖</td>
<td>Consult operating instructions.</td>
</tr>
<tr>
<td>📖</td>
<td>Refer to instruction manual / booklet.</td>
</tr>
<tr>
<td>✅</td>
<td>Do not damage or crush.</td>
</tr>
<tr>
<td>🛠️</td>
<td>Follow proper disposal procedures.</td>
</tr>
<tr>
<td>🌎</td>
<td>Meets the requirements of the European Medical Device Directive.</td>
</tr>
<tr>
<td>🌎</td>
<td>Meets the requirements of the Radio Equipment and Telecommunications Directive, 1999/5/EC.</td>
</tr>
<tr>
<td>🌎</td>
<td>Classified by TÜV Rheinland of NA with respect to electric shock, fire, and mechanical hazard only in accordance with UL 60601-1, CAN/CSA C22.2 No.601.1-M90, IEC 60601-1, and IEC 60601-2-4. Conforms to UL Standard UL 60601-1. Certified to CAN/CSA Standard C22.2 No. 601.1-M90.</td>
</tr>
<tr>
<td>🌎</td>
<td>Authorized European Representative: Emergo Europe Molenstraat 15 2513 BH The Hague The Netherlands</td>
</tr>
<tr>
<td>🌎</td>
<td>Operational temperature limitation.</td>
</tr>
<tr>
<td>🌎</td>
<td>Use by yyyy-mm-dd.</td>
</tr>
<tr>
<td>🌎</td>
<td>Defibrillation proof - Can withstand the effects of an externally applied defibrillation shock. Internally powered with defibrillator-proof BF-type patient applied parts (per EN 60601-1).</td>
</tr>
<tr>
<td>🌎</td>
<td>Manufacturer.</td>
</tr>
<tr>
<td>🌎</td>
<td>Date of manufacture.</td>
</tr>
<tr>
<td>🌎</td>
<td>Manufacturer and date of manufacture.</td>
</tr>
<tr>
<td>🌎</td>
<td>Do not reuse.</td>
</tr>
<tr>
<td>🌎</td>
<td>For USA users only.</td>
</tr>
<tr>
<td>🌎</td>
<td>Rx ONLY Federal Law (USA) restricts this device to sale by or on the order of a physician.</td>
</tr>
<tr>
<td>🌎</td>
<td>Catalogue number.</td>
</tr>
</tbody>
</table>
**GLOSSARY OF SYMBOLS**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>☀️</td>
<td>Keep dry.</td>
</tr>
<tr>
<td>🛠️</td>
<td>Handle with care.</td>
</tr>
<tr>
<td>🚡</td>
<td>Transportation and storage requirements. See environmental requirements on packaging.</td>
</tr>
<tr>
<td>🔄</td>
<td>Does not contain latex.</td>
</tr>
<tr>
<td>🚗</td>
<td>Lot number.</td>
</tr>
<tr>
<td>IP55</td>
<td>Dust protected; Protected against water jets.</td>
</tr>
<tr>
<td>SN</td>
<td>Serial number.</td>
</tr>
<tr>
<td>Li-Mn</td>
<td>Lithium manganese dioxide battery.</td>
</tr>
<tr>
<td>Li-Ion</td>
<td>Lithium-ion battery.</td>
</tr>
<tr>
<td>🧵</td>
<td>Product is not sterile.</td>
</tr>
<tr>
<td>💔</td>
<td>Defibrillation proof - Can withstand the effects of an externally applied defibrillation shock. Internally powered with defibrillator-proof CT-type patient applied parts (per EN 60601-1).</td>
</tr>
</tbody>
</table>

**WARRANTY INFORMATION**

**ORIGINAL END USER’S LIMITED WARRANTY**

**COVERAGE**

Defibtech, LLC provides a limited warranty that the defibrillator and its associated accessories, e.g., batteries and pads, whether purchased concurrently with the defibrillator as part of a configuration or separately, shall be substantially free from defects in material and workmanship. Defibtech’s limited warranty shall only extend to the original end user, where the original end user purchased the items from an authorized Defibtech, LLC retailer. This limited warranty may not be assigned or transferred. The terms of the limited warranty in effect as of the date of original purchase shall apply to any warranty claims.

**LENGTH OF WARRANTY**

The defibrillator’s limited warranty is for a period of eight (8) years from the date of purchase. The battery’s limited warranty is for a period of four (4) years from the date of purchase, but in no event shall the limited warranty period extend past the date printed on the battery. Single use accessories (e.g., the pads) shall have a limited warranty up to use for or for a period up to the expiration date, whichever is earlier. The limited warranty for all other accessories is for a period of one (1) year from the date of purchase, or to the expiration date, whichever is earlier.

**LIMITED WARRANTY LIMITATIONS**

This limited warranty does not cover damage of any sort resulting from, but not limited to, accidents, improper storage, improper operation, alterations, unauthorized service, tampering, abuse, neglect, fire, flood, war, or acts of God. Additionally, this limited warranty does not cover damage of any sort to the defibrillator or its associated accessories resulting from the use of the defibrillator with unapproved accessories or use of the accessories with unapproved medical devices. The defibrillator and its associated accessories are not warranted to be compatible with any other medical device.

**LIMITED WARRANTY VOIDED**

The limited warranty is immediately voided if: the defibrillator or its associated accessories are serviced or repaired by any entity, including persons, not authorized by Defibtech, LLC; specified maintenance is not performed; the defibrillator is used with one, or more, unauthorized accessories; the associated accessories are used with an unauthorized defibrillator; or the defibrillator or associated accessories are not used in accordance with Defibtech, LLC approved instructions.

*Applicable to defibrillators and associated accessories having a date of manufacture on or after January 1, 2013. For all others, refer to warranty information in effect at the time of manufacture.

**EXCLUSIVE REMEDY**

At Defibtech, LLC’s sole discretion, Defibtech shall have the option to repair, replace, or provide a credit. In the event of replacement, Defibtech shall have the right at its sole discretion to replace the item with a new, or refurbished, same or similar item. Determination of a similar item shall be at the sole discretion of Defibtech. In the case of replacement, the replacement at a minimum shall reflect the prorated time remaining for the item based on the remaining limited warranty period. In the case of a credit, the credit shall be the prorated value of the item based on the lower of the original item cost of the same or similar item and the remaining limited warranty period. In no event, shall the limited warranty period of a replacement item extend past the limited warranty period of the item it is replacing.

**WARRANTY SERVICE**

In order to obtain warranty service, contact the retailer from whom the item was purchased, or Defibtech, LLC customer service. In the event an item must be returned, a Return Material Authorization (RMA) number is required. Items returned without an RMA number will not be accepted. The item shall be shipped at the original end user’s expense to a destination specified by the retailer or Defibtech, LLC.

**OBLIGATIONS AND WARRANTY LIMITS**

The foregoing limited warranty is in lieu of and specifically excludes and replaces, to the degree permitted by applicable state law, all other express or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. No person (including any agent, dealer, or representative of Defibtech, LLC) is authorized to make any representation or warranty concerning the defibrillator or its associated accessories, except to refer to this limited warranty.

The exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever shall be as specified above. Defibtech, LLC shall in no event be liable for any consequential or incidental damages of any kind, including, but not limited to, exemplary damages, special, punitive, commercial loss from any cause, business interruption of any nature, loss of profits or personal injury, even if Defibtech, LLC has been advised of the possibilities of such damages, however occasioned, whether by negligence or otherwise, unless applicable state law does not allow such exclusion or limitation.
CONTACTS

Manufacturer
Defibtech, L.L.C.
741 Boston Post Road, Suite 201
Guilford, CT 06437 USA

Tel.: 1-(866) 333-4241 (Toll-free within North America)
1-(203) 453-4507
Fax: 1-(203) 453-6657

Email:
sales@defibtech.com (Sales)
reporting@defibtech.com (Medical Device Reporting)
service@defibtech.com (Service and Repair)

This product and its accessories are manufactured and sold under license to at least one or more of the following United States patents: 5,591,213; 5,593,427; 5,601,612; 5,607,454; 5,611,815; 5,617,853; 5,620,470; 5,662,690; 5,735,879; 5,749,904; 5,749,905; 5,776,166; 5,800,460; 5,803,927; 5,836,978; 5,836,993; 5,879,374; 6,016,059; 6,047,212; 6,075,369; 6,438,415; 6,441,582.

For additional patent information, please see:
www.defibtech.com/support/patents