

Synchronized Cardioversion


- ① Press ON
- ② Apply ECG electrodes and select Lead II
- ③ Apply and connect QUIK-COMBO® therapy electrodes
- ④ Press SYNC
- ⑤ Confirm sense marker (▼) is near the middle of each QRS
- ⑥ Select desired energy
- ⑦ Press CHARGE
- ⑧ Clear everyone from patient
- ⑨ Press and *hold* ⚡ (SHOCK) button until energy is delivered



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Synchronized Cardioversion


TIPS:

- To cancel the charge, press the **SPEED DIAL**
- If sense markers (▼) are in the wrong location, adjust ECG size or select another lead
- After shock, press **SYNC** to reactivate Sync mode
- If  (SHOCK) button is not pressed within 60 seconds or you change the energy selection, the defibrillator automatically cancels the charge

This information is based on factory default settings and is an abridged reference for synchronized cardioversion. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.

Manual Defibrillation — Therapy Electrodes


Manual Defibrillation with QUIK-COMBO® Therapy Electrodes:

- 1 Confirm patient is in cardiac arrest
- 2 Press ON
- 3 Apply and connect therapy electrodes
- 4 Confirm desired energy selected or press ENERGY SELECT to change
- 5 Press CHARGE
- 6 Clear everyone from patient
- 7 Confirm ECG rhythm and press  (SHOCK) button



Manual Defibrillation — Therapy Electrodes

TIPS:

- To cancel the charge, press the SPEED DIAL
- If  (SHOCK) button is not pressed within 60 seconds or you change the energy selection, the defibrillator automatically cancels the charge
- To activate the CPR Metronome, press CPR
- CPR Metronome:
 - Adult – No Airway = patient is an adult with an unsecured airway
 - Adult – Airway = patient is an adult with a secured airway

This information is based on factory default settings and is an abridged reference for manual defibrillation. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.



SpO₂ Monitoring



- ① Press ON
- ② Connect pulse oximeter cable to monitor
- ③ Attach sensor to patient
- ④ Orient the sensor so the cable is on the back of the patient's hand
- ⑤ Place the sensor's emitter (red light) directly over the nail bed
- ⑥ Observe pulse bar for fluctuation. Amplitude indicates relative signal quality.
- ⑦ Use SPEED DIAL to adjust volume, sensitivity and averaging time, if necessary

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SpO₂ Monitoring

TIPS:

If signal is unstable or value is questionable, consider:

- Sensor size
- Sensor alignment
- Site perfusion
- Excessive or strobe lighting interference
- Sensor tightness



This information is based on factory default settings and is an abridged reference for SpO₂ monitoring. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.

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AED OPERATION

Automated External Defibrillation:


- ① Confirm patient is in cardiac arrest
- ② Press ON
- ③ Apply and connect the QUIK-COMBO® therapy electrodes
- ④ Press ANALYZE
- ⑤ Follow the screen messages and voice prompts



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AED OPERATION

TIPS:

- To cancel the charge, press the SPEED DIAL
- To silence the metronome, press CPR
- If  (SHOCK) button is not pressed within 60 seconds, the defibrillator automatically cancels the charge
- To switch from AED mode to Manual mode, press ENERGY SELECT

This information is based on factory default settings and is an abridged reference for AED operation. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.



EtCO₂ Monitoring

- 1 Press ON
- 2 Connect the FilterLine® set to device; turn connector clockwise until tight
- 3 Verify the CO₂ vital sign area is displayed
- 4 Display CO₂ waveform in Channel 2 or 3
- 5 Connect the CO₂ FilterLine set to the patient

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EtCO₂ Monitoring

TIPS:

- Apnea alarm occurs when a breath has not been detected for 30 seconds
- If apnea alarm occurs, check the patient first, and then check for leaks or disconnected tubing
- To clear the CO₂ FILTERLINE PURGING or CO₂ FILTERLINE BLOCKAGE message, unink and reconnect FilterLine set. Replace with new FilterLine set if necessary.

This information is based on factory default settings and is an abridged reference for EtCO₂ monitoring. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.

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Noninvasive Pacing

Demand Pacing:

- 1 Press ON
- 2 Apply ECG electrodes
- 3 Apply and connect QUIK-COMBO® therapy electrodes
- 4 Press PACER
- 5 Confirm placement of the sense marker (▼) is near the middle of each QRS
- 6 Press RATE
- 7 Press CURRENT until electrical capture occurs
- 8 Check blood pressure and pulse to verify mechanical capture



Note: Heart rate alarms are disabled during pacing. Observe patient continuously.

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Noninvasive Pacing

TIPS:

- To minimize artifact, place ECG electrodes far from the therapy electrodes
- Electrical capture is indicated by a wide QRS and a T-wave following the pace marker
- ECG heart rate shows --- during active pacing
- If an active ECG lead comes off during demand pacing, the device switches to nondemand pacing and ECG LEADS OFF message appears. ECG tracing shows --- on screen.
- Press and ***hold*** PAUSE button to view patient's intrinsic rhythm. Pacer will pace at 25% of the set rate. Release PAUSE to resume pacing at set rate.

This information is based on factory default settings and is an abridged reference for noninvasive pacing. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.


Manual Defibrillation with Standard Paddles

- 1 Confirm patient is in cardiac arrest
- 2 Press ON
- 3 Apply conductive gel to paddles
- 4 Confirm desired energy selected or press ENERGY SELECT button or rotate ENERGY SELECT dial on paddles
- 5 Press CHARGE
- 6 Apply firm pressure to the chest with both paddles
- 7 Clear everyone from patient
- 8 Confirm ECG rhythm and press both paddle  (SHOCK) buttons simultaneously



Manual Defibrillation with Standard Paddles

TIPS:

- To cancel the charge, press the SPEED DIAL
- If  (SHOCK) buttons are not pressed within 60 seconds or you change the energy selection, the defibrillator automatically cancels the charge
- To activate the CPR Metronome, press CPR
- CPR Metronome:
 - Adult – No Airway = patient is an adult with an unsecured airway
 - Adult – Airway = patient is an adult with a secured airway

This information is based on factory default settings and is an abridged reference for manual defibrillation. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.

Noninvasive Blood Pressure

NIBP:

- 1 Press ON
- 2 Select appropriately-sized cuff
- 3 Properly align the cuff artery markings, if present, and apply snugly to the extremity
- 4 Connect tubing to cuff and NIBP port on the monitor
- 5 Change the initial inflation pressure, if necessary
- 6 Position extremity in relaxed and supported position at heart level
- 7 Inform patient that cuff will inflate and squeeze arm
- 8 Press NIBP to start measurement; ensure arm remains still



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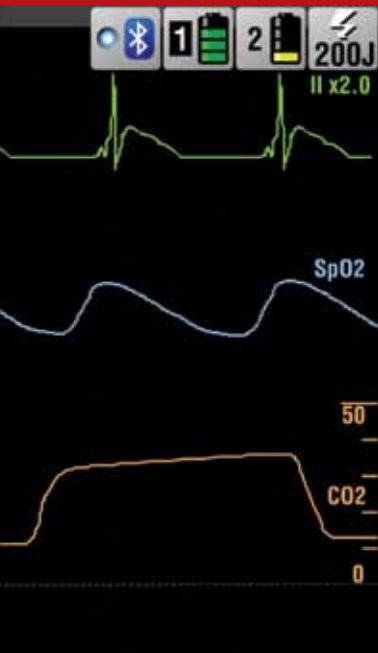
Noninvasive Blood Pressure

TIPS:

- To cancel NIBP in progress, press NIBP
- Patient or other movement during NIBP may cause the cuff to over-inflate
- Use of improper cuff size will cause the NIBP reading to be falsely low (cuff too large) or falsely high (cuff too small)
- To set timer-controlled measurements, rotate SPEED DIAL to outline NIBP area, select INTERVAL and the desired time



This information is based on factory default settings and is an abridged reference for noninvasive blood pressure. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.

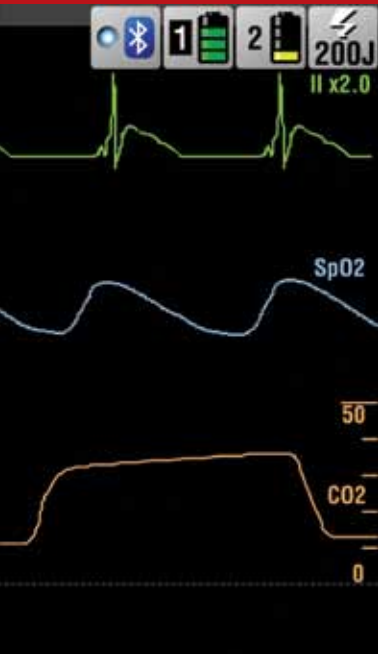


Bluetooth® Wireless Transmission

To transmit using your *Bluetooth* Wireless feature:

- 1** Rotate SPEED DIAL to highlight *Bluetooth* icon; press SPEED DIAL; *Bluetooth* Setup menu appears
- 2** Select CONNECT and then FIND DEVICES
- 3** When target device name appears, press SPEED DIAL to stop search
- 4** Select target device from list; press SPEED DIAL
- 5** Press HOME SCREEN to close *Bluetooth* Setup menu
- 6** When *Bluetooth* LED illuminates, press TRANSMIT
- 7** Select REPORT and SITE
- 8** Select SEND; note transmission status on screen

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Bluetooth Wireless Tips

TIPS:

If unable to find target device, check:

- Target device name
- Target device is ON and set to discoverable
- LIFEPAK 15 monitor Search Filter setting
- *Bluetooth* passcodes are correct

If unable to transmit, check:

- Transmission site setup (Output Port = *Bluetooth Wireless*)
- Target device COM port is set to incoming data
- Target device is running appropriate software
- **If target device requires step to 'acknowledge'**

This information is based on factory default settings and is an abridged reference for data transmission. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.

Monitoring Continuous Temperature

- ① Press ON
- ② Connect adapter cable to TEMP port on monitor
- ③ Connect temperature probe to adapter cable
- ④ Place temperature probe on patient according to probe Instructions for Use
- ⑤ Confirm temperature reading appears and is stable



Monitoring Continuous Temperature

TIPS:

- If the temperature is between 24.8° and 45.2°C (76.6° and 113.4°F), the temperature is displayed on the screen.
- Allow up to 3 minutes for probe to equilibrate after placing on patient
- If signal is unstable or dashes (---) are displayed, consider:
 1. Probe positioning
 2. Cable connections
 3. Non-valid temperature
- If **TEMP: ACCURACY OUTSIDE LIMITS** message appears and value is **XXX** , temperature accuracy check failed. Turn monitor off and on again. If problem persists, contact qualified service personnel.

This information is based on factory default settings and is an abridged reference for temperature monitoring. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.






Battery Power Management

- ① Install batteries in battery wells 1 and 2
- ② Press ON
- ③ Check battery indicators for charge level of each battery
- ④ If battery is low, replace with charged battery or connect defibrillator to auxiliary power using approved power adapter



Battery Power Management

TIPS:

- **Highlighted number indicates battery in use**
- **Defibrillator charges installed batteries if connected to auxiliary power using approved  power adapter**
- **Always keep a spare, fully charged battery available**

Battery Status Indicators:



75%
remaining charge





Low: 5-10%
remaining charge



Very low: <5%
remaining charge

This information is based on factory default settings and is an abridged reference for battery power. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.

Auxiliary Power Management

- ① Connect power cord to power adapter and auxiliary power source
- ② Confirm LED strip on power adapter is illuminated
- ③ Connect power adapter output cable to power adapter
- ④ Connect green end of output cable to auxiliary power connector on back of defibrillator
- ⑤ Confirm  and  LEDs are illuminated




Note: At least one battery should be installed at all times. Keep monitor/defibrillator connected to auxiliary power whenever possible to maintain battery charge level.



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Auxiliary Power Management

TIPS:

-  LED is illuminated whenever connected to auxiliary power, whether defibrillator is on or off
-  LED is illuminated if batteries are fully charged. LED flashes if either battery is being charged
- **LOW BATTERY** and **REPLACE BATTERY** warning messages do not occur when connected to auxiliary power
- To quickly determine whether power source is battery or auxiliary power, either:
 1. Check  LED. Illuminated LED indicates auxiliary power in use; or
 2. Check whether battery well number is highlighted. Highlighted battery well number indicates battery in use.

This information is based on factory default settings and is an abridged reference for auxiliary power. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.



SpCO and SpMet Monitoring

SpCO or SpMet Monitoring:

- ① Press ON
 - ② Connect Rainbow® sensor to monitor
 - ③ Attach sensor to patient
 - ④ Encourage patient to remain still
 - ⑤ To quickly obtain SpCO or SpMet value, press PRINT
- OR

To display SpCO or SpMet:

- Use the SPEED DIAL to select SpO2 area
- Select PARAMETER from menu
- Select SpCO or SpMet; selected value displays for 10 seconds and then reverts to SpO2

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SpCO and SpMet Monitoring

If SpCO or SpMet is abnormally elevated, the following message occurs:

ADVISORY: SpCO > 10% or ADVISORY: SpMet > 3%

If signal or value is questionable, consider:

- **Light interference:** cover hand with opaque material. The presence of ambient or strobe light can interrupt or interfere with the SpCO reading.
- **Sensor size:** use slender digit sensor as needed. Incorrect sensor size may cause incorrect reading.
- **Sensor alignment:** the tip of the finger should touch the raised digit stop inside the sensor.
- **Site perfusion:** choose a well-perfused site.

Failure to apply sensor properly may cause falsely elevated SpCO. If an elevated SpCO is detected, ALWAYS confirm by checking two additional fingers and average the readings.

Readings may vary from finger to finger.

This information is based on factory default settings and is an abridged reference for SpCO and SpMet monitoring. See the *LIFEPAK 15 Monitor/Defibrillator Operating Instructions* for complete directions for use, indications, contraindications, warnings, precautions, and potential adverse events.

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