



# LIFEPAK<sup>®</sup> CR2 TRAINER

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## Operating Instructions





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# Getting Started

The LIFEPAK CR2 Trainer provides a way for trainees to practice responding to a simulated cardiac arrest event. The Trainer simulates the voice prompts and features of the LIFEPAK CR2 defibrillator, but does not deliver shocks.

The Trainer is equipped with 2 preset training scenarios. These scenarios can be easily customized using the setup screen on the Trainer to provide a wide variety of training options.

## Unpacking and Inspecting the Trainer

1. Remove the Trainer and examine the outside for signs of damage that may have occurred during shipping.
2. Check the remaining contents in the shipping box against the sales order.
3. The Trainer ships with 4 D cell batteries installed. See Outside Controls, Indicators, and Labels (on page 6) for battery compartment locations.

## Initial Setup

The general steps below provide an overview of the process you will follow to prepare the Trainer for use. Detailed instructions for each step are provided in this manual.

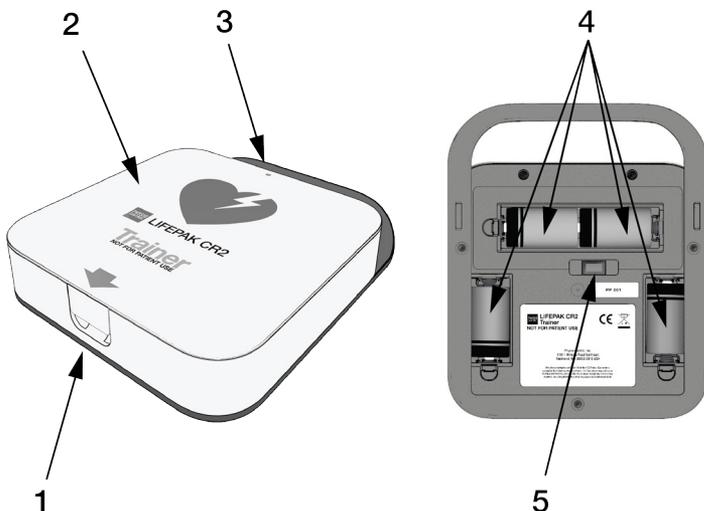
1. Open the Trainer lid and confirm the device turns on.
2. Remove the electrode tray to access the setup screen.
3. Set up Scenarios 1 and 2 according to your preferences or local protocols. These scenarios can be changed at any time, if desired.
4. Set the **DEMO** and **cprINSIGHT Demo** scenarios to simulate either a fully automatic or semi-automatic device as appropriate.

5. Install the Trainer demo app on your smart device and pair with your Trainer.
6. If the Trainer will not be used immediately, turn it off by pressing the **POWER** button for at least 3 seconds.

## Controls, Indicators, and Labels

This section describes the controls, indicators, and labels on the device.

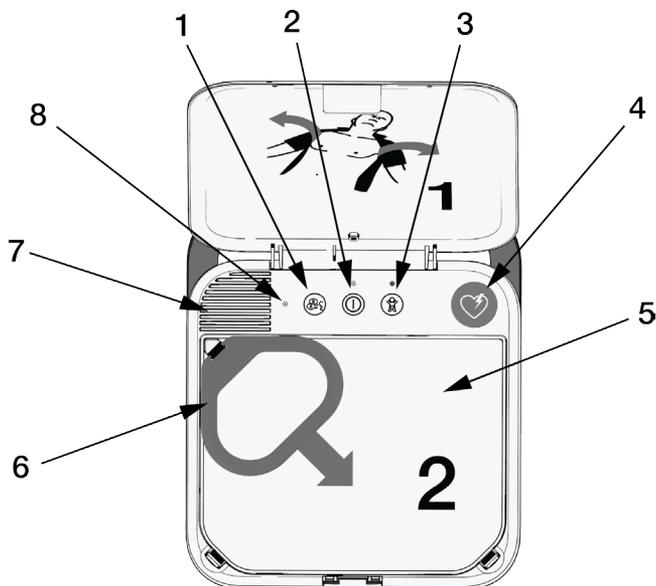
### Outside Controls, Indicators, and Labels



ITEM	FEATURE	DESCRIPTION
1	Latch	To open the Trainer, insert your finger in the recessed area and pull up.
2	Lid	Open the lid to turn the Trainer on.

ITEM	FEATURE	DESCRIPTION
3	Power indicator	<p>The green LED is off when the Trainer is turned off, and on when the Trainer is in use or in Setup mode.</p> <p>The LED turns to steady on when the lid is opened. When in Standby mode with the lid closed, the LED flashes once every 6 seconds. This simulates the behavior of the Readiness indicator on the LIFEPAK CR2 defibrillator.</p> <p>If the <b>POWER</b> button is pressed briefly during a training session to pause the scenario, the LED blinks once every second.</p>
4	Battery compartments	<p>The battery compartments hold 4 D cell batteries.</p>
5	USB port	<p>The USB port is used to install software updates. This is also where the USB Bluetooth® adapter can be installed to pair the Trainer with a smart device during demos.</p>

## Inside Controls and Features

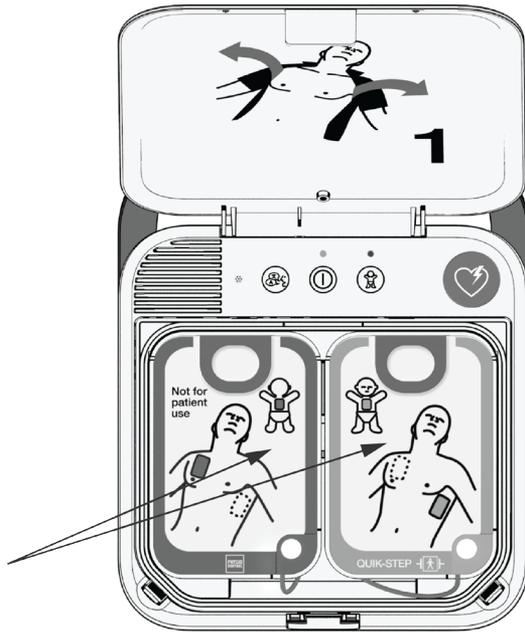


ITEM	FEATURE	DESCRIPTION
1	<b>LANGUAGE</b> button 	During training sessions, press the <b>LANGUAGE</b> button, if prompted, to switch between your preset languages.
2	<b>POWER</b> button 	Press the <b>POWER</b> button to turn the device on. Press and hold for at least 3 seconds to turn the device off. <b>Note:</b> You can also turn the device on by opening the lid. During training sessions, press the <b>POWER</b> button for less than 3 seconds to pause the scenario, and press again to resume.

ITEM	FEATURE	DESCRIPTION
3	<b>CHILD MODE</b> button 	<p>During training sessions, press the <b>CHILD MODE</b> button to switch between Adult mode and Child mode. The green LED above the <b>CHILD MODE</b> button is illuminated when Child mode is selected.</p> <p><b>Note:</b> The <b>CHILD MODE</b> button is disabled after the electrodes are placed on the manikin.</p>
4	<b>SHOCK</b> button/indicator 	<p>When the Trainer is used to simulate a fully automatic defibrillator, the <b>SHOCK</b> indicator flashes to indicate the Trainer is preparing to deliver a simulated shock.</p> <p>When the Trainer is used to simulate a semi-automatic defibrillator, the <b>SHOCK</b> button flashes to indicate the Trainer is ready to deliver a simulated shock and a voice prompt instructs the trainee to press the flashing button.</p>
5	Reusable electrode tray cover	The cover for the training electrode tray can be removed and replaced repeatedly. To replace a cover that has been removed, align the cover on the tray and press the edges into the groove, starting with the corners.
6	Red handle	Pull the red handle to reveal the reusable training electrodes.
7	Speaker	Provides audio voice prompts and tones.
8	Noise sensor	<p>The noise sensor monitors the noise level of the surrounding area while the Trainer is in use. The Trainer automatically adjusts the volume of the voice prompts so they can be clearly heard.</p> <p><b>Note:</b> This feature is only active if <b>Volume</b> is set to <b>Auto</b>. See Entering Setup Mode (on page 13) for more information.</p>

## Electrode Tray Features

After the red handle is pulled, the electrodes are revealed as shown below.

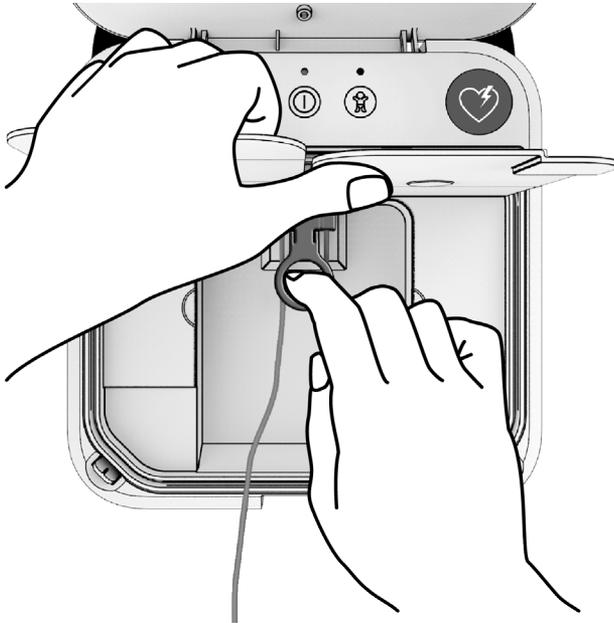


The training electrodes include a sensor that detects when the electrode pads are pressed onto a firm surface such as a manikin. During training sessions, this enables the Trainer to detect when the electrode pads have been placed and automatically continue the scenario.

**Note:** The Trainer only detects when the electrode pads are first applied. It does not detect pads that become loose or are removed during a scenario.

The training electrodes have reusable adhesive for use on manikins, and can be used approximately 50 times. See Caring for the Trainer (on page 45) for information about replacing the training electrodes.

The training electrode liners can be lifted to reveal the electrode plug, as shown.



When the electrodes are unplugged and the Trainer lid is closed, the Trainer simulates a LIFEPAK CR2 defibrillator in which the electrode tray is not properly installed. The Power indicator turns off, and the Trainer beeps.

# Running the Default Scenario

To run the default scenario, follow these basic steps.

**Note:** It is not necessary to turn the Trainer on before you begin.

1. Start with the lid closed. Open the lid to turn the Trainer on and begin the scenario.
2. Follow the voice prompts. You can pause the scenario at any time by pressing the **POWER** button for less than 3 seconds. Press again to resume the scenario.
3. When you are instructed to place the electrode pads on the manikin, be sure to press the center of the pads firmly. This enables the Trainer to detect when the electrode pads have been placed and automatically continue the scenario.
4. Continue to follow the instructions until the scenario ends or you decide to stop.

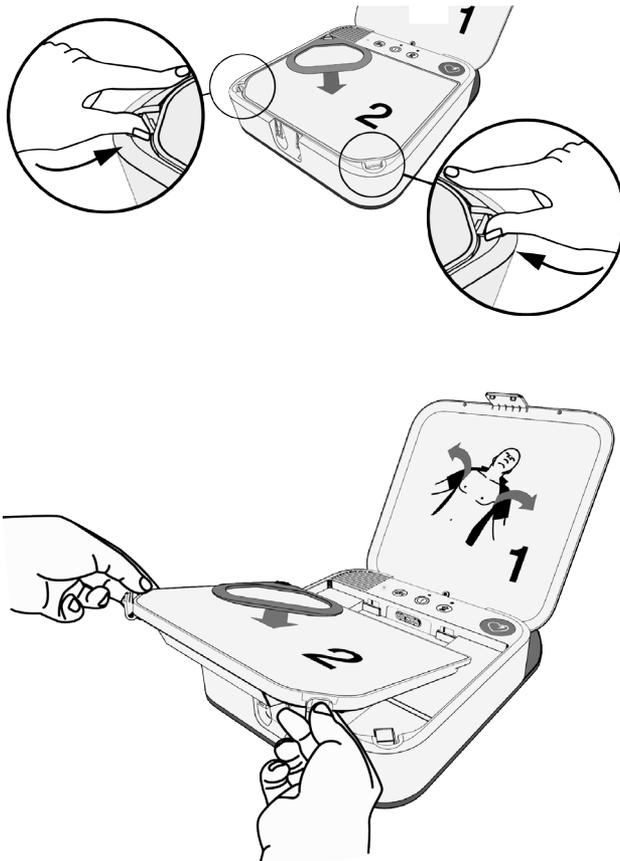
**Note:** To stop without powering off the Trainer press the **POWER** button for less than 3 seconds.

5. Prepare the Trainer for the next use.
  - Place the electrode pads back on the liners.
  - Coil the electrode wire neatly and store it under the liners.
  - Reseal the electrode tray cover, starting from the corners.
  - Close the lid.
6. When the lid is opened, the same scenario will start at the beginning.

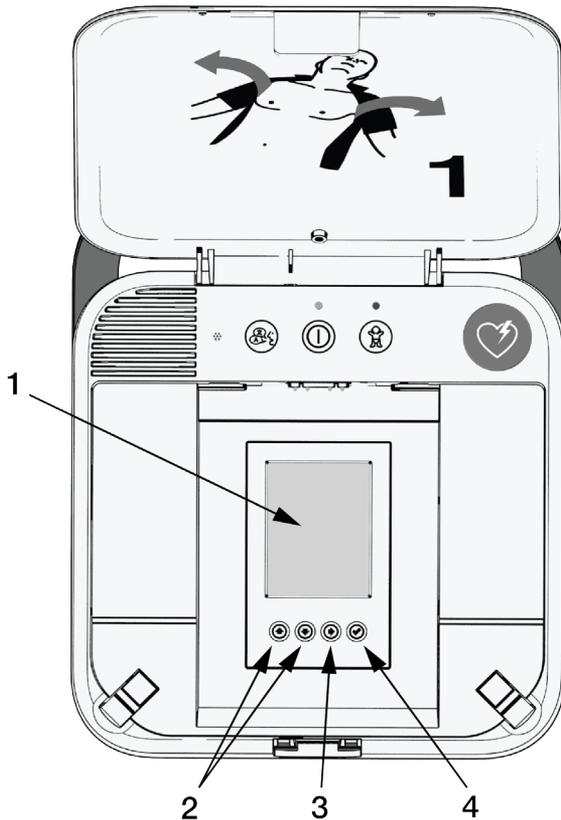
# Entering Setup Mode

Setup Mode allows you to customize the two preset scenarios to meet your training needs. To access the setup screen and enter Setup Mode, remove the electrode tray as shown in the following illustrations.

**Note:** Voice prompts will begin as soon as you open the lid. The voice prompts stop when you remove the electrode tray.



When the electrode tray has been removed, the setup screen and buttons will be exposed as shown in the following illustration, and the setup screen will turn on automatically. If the Trainer is turned off, press the **POWER** button to turn on the setup screen.



ITEM	FEATURE	DESCRIPTION
1	Setup screen	Provides menu options for scenario settings and device information such as battery level, software version, and Bluetooth status.

2	Up and Down Arrow buttons	The arrow buttons scroll through menu items in the direction indicated.
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ITEM	FEATURE	DESCRIPTION
3	Right Arrow button 	<p>When the title at the top of the screen is highlighted (<b>MAIN MENU</b> or <b>SCENARIO X</b>), the right arrow moves to the next screen.</p> <p>When a menu item within a screen is highlighted, the right arrow moves through the options for each menu item.</p> <p><b>Note:</b> Settings are saved automatically when you press the <b>UP</b> or <b>DOWN</b> button to move to the next menu item. Do not press the <b>CHECK</b> button until you have finished making your selections on the current screen and want to run the selected scenario.</p>
4	Check button 	<p>Selects the current scenario as the scenario that will be used, and returns to the Main Menu. When the Trainer is turned on with the electrode tray installed, the selected scenario will run.</p> <p><b>Note:</b> If you press the <b>CHECK</b> button while viewing the Main Menu, the Trainer will save all settings and turn off the setup screen to save power.</p>

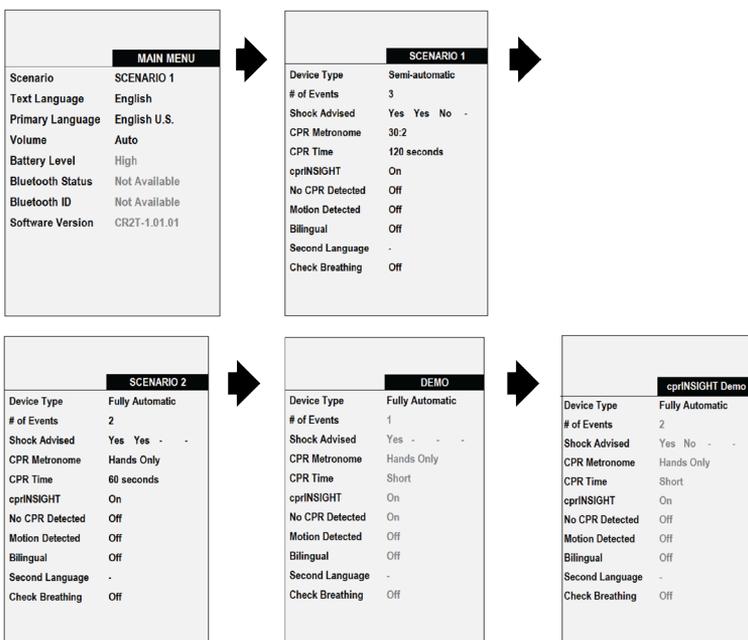
The setup screen always opens to the Main Menu. Press the **UP** and **DOWN** buttons to scroll through the menu items. To change a selection, use the **RIGHT** button to scroll through the available options. When the desired option is highlighted, press the **UP** or **DOWN** button to scroll to the next menu item. Selections are saved automatically when you scroll to another menu item.

**Note:** Descriptions of all available options are provided in Setup Options (on page 18).

# Modifying Training Scenarios

The Trainer has two configurable training scenarios and two demo scenarios. To modify a training scenario, you must move from the Main Menu screen to the desired Scenario screen.

1. Starting in the Main Menu screen, press the **UP** or **DOWN** buttons until **MAIN MENU** is highlighted, and then press the **RIGHT** button until the desired scenario screen is displayed.



**Note:** The **cprINSIGHT Demo** scenario is designed to demonstrate the benefits of cprINSIGHT Analysis Technology. It does **not** demonstrate the actual behavior of the LIFEPAK CR2 defibrillator. For more information, see cprINSIGHT Demo Scenario Description (on page 26).

2. When the desired scenario is displayed, press the **UP** or **DOWN** button to scroll through the menu items, and use the **RIGHT** button to select options.

3. When you have set all of the menu items as desired, you can either select the current scenario to run during demo sessions, or go to one of the other screens.
  - To select the current scenario, press the **CHECK** button. This will select the current scenario and return to the Main Menu.
  - To continue without selecting the current scenario, go to the top of the screen and press the **RIGHT** button until the desired screen is highlighted.
4. To finish setup, go to the Main Menu, ensure the scenario you want to use is selected, and then install the electrode tray and close the lid. The green Power indicator will flash every 6 seconds, indicating that the Trainer is in Standby mode. When you open the lid, the Trainer will begin the scenario you selected.

**Note:** If you close the lid with the Trainer turned on and the electrode tray out, the Power indicator turns off and the Trainer beeps to simulate a LIFEPAK CR2 defibrillator that is not ready for use.

Each time you exit Setup mode, the settings you selected are saved until you change them again. Each time you restart the Trainer, it will run the last selected scenario.

# Setup Options

The following tables explain the available setup options. Some menu items are shown for operator information only and cannot be changed. These are shown in gray table cells, and are also grayed out on the setup screen.

Some options appear only during software updates. The procedure for updating software is explained in Installing Software Updates (on page 49).

The following options appear in the **MAIN MENU** screen.

MENU ITEM	DESCRIPTION	OPTIONS
Scenario	Sets the scenario that will be used during training sessions.	Scenario 1, Scenario 2, Demo, cprINSIGHT Demo
Text Language	Sets the language to be displayed on the setup screen.	All available languages. See Language List (on page 24) for details.
Primary Language	Sets the spoken language that will be used for voice prompts.	All available languages
Volume	Sets the audio volume. The <b>Auto</b> setting automatically adjusts the volume depending on surrounding noise levels.	1, 2, 3, 4, 5, 6, 7, Auto
Battery Level	Indicates the current battery level of the Trainer. See Replacing Batteries (on page 46) for more information.	High, Medium, Low

MENU ITEM	DESCRIPTION	OPTIONS
Bluetooth Status	Indicates whether Bluetooth is connected.	<p><b>On:</b> USB Bluetooth adapter is plugged in and Bluetooth is active.</p> <p><b>Connected:</b> The Trainer has established a Bluetooth connection with a smart device.</p> <p><b>Not Available:</b> USB Bluetooth adapter is not plugged in.</p>
Bluetooth ID	Provides Bluetooth adapter identification. The Bluetooth ID number should match the serial number on the USB Bluetooth adapter. If the status is <b>Not Available</b> , the USB Bluetooth adapter is not plugged in.	Bluetooth ID number, Not Available
Software Version	Indicates the currently installed software version for the Trainer.	Not applicable

The following options appear in the **SCENARIO** and **DEMO** setup screens.

MENU ITEM	DESCRIPTION	OPTIONS
Device Type	<p>Sets the Trainer to simulate either a fully automatic or semi-automatic defibrillator.</p> <p><b>Note:</b> A fully automatic defibrillator delivers a shock without requiring the user to press the <b>SHOCK</b> button. A semi-automatic defibrillator only delivers a shock if the <b>SHOCK</b> button is pressed.</p>	Fully Automatic, Semi-automatic
# of Events	<p>Sets the number of heart rhythm analysis cycles that will be included in the scenario.</p> <p>When the Trainer is set for <b>Repeat</b>, the scenario goes through events 1, 2, and 3, and then repeats event 4 until the Trainer is turned off.</p>	1, 2, 3, 4, Repeat
Shock Advised	<p>Determines whether each heart rhythm analysis event in the scenario will result in a Shock Advised decision. Select <b>Yes</b> for Shock Advised and <b>No</b> for No Shock Advised.</p>	Yes, No
CPR Metronome	<p>Sets the chest compression to breath ratio to either <b>Hands Only</b> (continuous 'tocks' during CPR time) or <b>30:2</b> (instructs the trainee to provide 2 breaths after every 30 'tocks').</p>	Hands-Only, 30:2

MENU ITEM	DESCRIPTION	OPTIONS
CPR Time	<p>Sets the duration of the CPR interval between heart rhythm analyses.</p> <p><b>Note:</b> The <b>Short</b> setting provides a shortened CPR interval. This setting is not available on the LIFEPAK CR2 defibrillator, but may be useful for demonstration purposes.</p>	Short, 60 sec, 120 sec, 180 sec
cprINSIGHT	<p>During an actual cardiac arrest event, cprINSIGHT™ Analysis Technology enables the LIFEPAK CR2 defibrillator to analyze heart rhythm during CPR. This technology is used only after the first shock has been delivered. Before the first shock, the user is instructed not to touch the patient during analysis. After the first shock, the user is instructed to provide CPR continuously, except during an actual shock.</p> <p>If <b>On</b> is selected, the Trainer will simulate a defibrillator with cprINSIGHT Analysis Technology turned on.</p> <p><b>Note:</b> cprINSIGHT Analysis Technology may not be available in all countries.</p>	On, Off

MENU ITEM	DESCRIPTION	OPTIONS
No CPR Detected	<p>During an actual cardiac arrest event, the LIFEPAK CR2 defibrillator can detect whether CPR is being performed during CPR times. This setup option in the Trainer determines whether the Trainer will simulate a defibrillator that has not detected CPR.</p> <p>If <b>On</b> is selected, the Trainer will behave as though the trainee is not performing CPR when instructed. The voice prompts will change after the first analysis to encourage the trainee to perform CPR.</p> <p>If <b>Off</b> is selected, the Trainer will behave as though the trainee is performing CPR when instructed.</p>	On, Off
Motion Detected	<p>During an actual cardiac arrest event, the LIFEPAK CR2 defibrillator can detect whether patient motion is interfering with the heart rhythm analysis. This setup option in the Trainer determines whether the Trainer will simulate a defibrillator that has detected patient motion.</p> <p>If <b>On</b> is selected, the <b>Motion Detected; Stop Motion</b> voice prompt will be used during the first simulated analysis.</p> <p>If <b>Off</b> is selected, the Trainer will behave as though no patient motion is detected.</p>	On, Off

MENU ITEM	DESCRIPTION	OPTIONS
Bilingual	<p>Determines whether the Trainer simulates a bilingual device.</p> <p>If <b>Off</b> is selected, the Trainer will behave as though only one language is available.</p> <p>If <b>On</b> is selected, the Trainer will behave as though two languages are available. The voice prompts always begin with the primary language which was selected in the <b>MAIN MENU</b> screen. The trainee will then be instructed, in the secondary language, to press the <b>LANGUAGE</b> button if they want to hear the voice prompts in the secondary language. Each time the <b>LANGUAGE</b> button is pressed, the Trainer will switch between languages.</p> <p><b>Note:</b> After the electrode pads are applied, the Trainer will not switch languages.</p>	On, Off
Second Language	<p>If <b>Bilingual</b> is set to <b>On</b>, this option selects the secondary language that will be used for voice prompts.</p>	All available languages

MENU ITEM	DESCRIPTION	OPTIONS
Check Breathing	<p>Determines whether the trainee will be instructed to check for breathing before resuming CPR after a No Shock Advised decision.</p> <p>If <b>Off</b> is selected, the trainee is not instructed to check for breathing before resuming CPR.</p> <p>If <b>On</b> is selected, the trainee is instructed to check for breathing before resuming CPR.</p> <p><b>Note:</b> If the language selected is Norwegian, the trainee is instructed to check for signs of life.</p>	On, Off

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## Language List

Text languages appear in the following order on the setup screen: Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Spanish, Swedish, Japanese, Korean, Chinese (Traditional).

Voice prompt (Primary and Secondary) languages appear in the following order on the setup screen: Danish, Dutch, English International, English U.S., Finnish, French, German, Italian, Norwegian, Polish, Spanish, Swedish, Japanese, Korean, Chinese (Cantonese).

# Using the Trainer for Sales Demos

The Trainer that ships to Physio-Control representatives and distributors includes two Demo scenarios, **DEMO** and **cprINSIGHT Demo**. The **DEMO** scenario is pre-set to enable quick demonstrations of the Trainer's key features. The **cprINSIGHT Demo** is designed specifically to demonstrate the benefits of cprINSIGHT Analysis Technology.

## Demo Scenario Description

The **DEMO** scenario is pre-set with the following configuration.

- One rhythm analysis event per demo scenario
- Shock advised
- Hands-Only CPR
- 60-second CPR time
- **cprINSIGHT** turned on (device will instruct user to continue CPR during analysis time after first shock is delivered)
- **No CPR Detected** turned on (device will provide extra CPR instructions)
- **Motion Detected** turned off (device will not instruct user to stop motion)
- **Bilingual** turned off (device will not instruct user to press **LANGUAGE** button to change languages)
- **Check Breathing** turned off (device will not instruct user to check for breathing)

To provide a demo that highlights other features, see *Modifying Training Scenarios* (on page 16) to configure Scenarios 1 and 2 for your demo purposes.

The Trainer also provides the ability to demonstrate email notifications from LIFELINKcentral AED Program Manager. See

Setting Up the Trainer Demo App (on page 29) and Using the Trainer Demo App (on page 32) for more information.

## **cprINSIGHT Demo Scenario Description**

The **cprINSIGHT Demo** scenario demonstrates how much additional CPR can be provided with cprINSIGHT Analysis Technology. The scenario does not demonstrate the actual behavior of the LIFEPAK CR2 defibrillator. Instead, it plays the voice prompts for a traditional scenario (with cprINSIGHT Analysis Technology off), and adds metronome 'tocks' when CPR would be provided if cprINSIGHT Analysis Technology was enabled. For example, prompts in a traditional scenario that instruct the user to stop performing CPR would include metronome 'tocks' in this Demo scenario to reflect the difference when cprINSIGHT Analysis Technology is enabled.

**Note:** Because the **cprINSIGHT Demo** scenario does not demonstrate actual device behavior, it should be used only after normal device behavior has been demonstrated using the Demo scenario, or Scenario 1 or 2.

At the beginning of the **cprINSIGHT Demo** scenario, the Trainer behaves as though the electrode pads have already been placed on the manikin. The Trainer does not attempt to detect pad placement during this scenario. The Trainer also behaves as though the first shock has already been delivered. This is because cprINSIGHT Analysis Technology in the LIFEPAK CR2 defibrillator is only used after the first shock has been delivered.

The scenario follows this order:

1. Five seconds of metronome 'tocks.'

*This simulates a scenario in which a rescuer is providing CPR.*

2. **Stop Chest Compressions** voice prompt occurs and metronome 'tocks' continue.

*The instruction to stop chest compressions contrasts with the sound of the metronome to demonstrate that if cprINSIGHT Analysis Technology was enabled, the rescuer could continue CPR during this time.*

3. **Do Not Touch Patient** voice prompt occurs and metronome continues.

*The metronome continues to contrast with the traditional protocol in which the rescuer stops CPR during analysis.*

4. **Analyzing Heart Rhythm** voice prompt occurs and metronome continues.

*The metronome continues to contrast with the traditional protocol.*

5. **Everyone Clear** voice prompt occurs. Metronome stops.

*The metronome stops here to demonstrate when CPR would stop if cprINSIGHT Analysis Technology was enabled.*

6. **Do Not Touch Patient** and **Delivering Shock** or **Press Flashing Button** voice prompts occur, depending on device type (fully automatic or semi-automatic).

7. **Shock Delivered** voice prompt occurs.

8. **Resume Chest Compressions** voice prompt occurs and metronome resumes.

*At this point in the scenario, CPR would resume whether or not cprINSIGHT Analysis Technology was enabled.*

9. Metronome continues for 10 seconds.

10. **Do Not Touch Patient** voice prompt occurs and metronome continues.

*The traditional instruction not to touch the patient contrasts with the sound of the metronome to demonstrate that if*

*cprINSIGHT Analysis Technology was enabled, the rescuer could continue CPR during this time.*

11. **Analyzing Heart Rhythm** voice prompt occurs and metronome continues.

*The metronome continues to contrast with the traditional protocol in which the rescuer stops CPR during analysis.*

12. **No Shock Advised** voice prompt occurs and metronome continues.

*The No Shock Advised voice prompt combined with the metronome demonstrates that with cprINSIGHT Analysis Technology, heart rhythm analysis can be completed while the rescuer is providing CPR.*

13. **Resume Chest Compressions** voice prompt occurs and metronome continues.

*The instruction to resume chest compressions demonstrates when CPR would resume during the traditional protocol.*

14. Metronome continues for 5 seconds.

15. End of scenario.

## Setting Up the Demo Scenarios

To set up the Trainer for demonstrations, follow these steps.

1. Remove the electrode tray as described in Entering Setup Mode (on page 13). If the setup screen does not turn on automatically, press the **POWER** button or any setup screen button to turn on the Trainer.
2. Starting with **MAIN MENU** highlighted, press the **RIGHT** button until the **DEMO** setup screen is displayed.
3. If you wish to change the device type between fully automatic and semi-automatic, press the **DOWN** button to select **Device Type** and press the **RIGHT** button to change the selection.

4. Press the **UP** button to highlight **DEMO** at the top of the screen, and then press the **RIGHT** button until the **cpriINSIGHT DEMO** screen is displayed.
5. If you wish to change the device type between fully automatic and semi-automatic, press the **DOWN** button to select **Device Type** and press the **RIGHT** button to change the selection.
6. When you have finished, press the **UP** button to highlight **cpriINSIGHT DEMO** at the top of the screen, and then press the **RIGHT** button to return to the Main Menu.
7. Press the **DOWN** button to highlight **Scenario**, and press the **RIGHT** button until the scenario you wish to use at the beginning of your demo is highlighted.
8. Press the **CHECK** button to exit the Main Menu and turn off the setup screen.

**Note:** If you do not need to change the device type, you can select the scenario in the Main Menu without going to the Demo and cpriINSIGHT Demo setup screens.

## Setting Up the Trainer Demo App

The Trainer demo app uses a Bluetooth connection between the LIFEPAK CR2 Trainer and your mobile device to simulate email notifications from LIFELINKcentral™ AED Program Manager. To use this function, you will need the USB Bluetooth adapter provided and a mobile device with the **CR2 Trainer** demo app installed. Follow these steps to set up the app for the first time.

1. Go to the app store for your Windows, Android, or iOS mobile device and search for **CR2 Trainer**.
2. Download and install the app.

3. Before you open the app for the first time, ensure the Bluetooth adapter is installed in the USB port on the bottom of the Trainer. Note the serial number on the Bluetooth adapter, and then turn the Trainer on. See Outside Controls, Indicators, and Labels (on page 6) for the location of the USB port.
4. Ensure the Bluetooth function on your mobile device is turned on.
5. Open the app and enter the Username and Password provided with the Bluetooth adapter.
6. Tap **Next** and accept the license agreement. The **Settings** menu appears next.

**Note:** The first time you open the app, the **Settings** menu automatically appears so you can set up your default settings. These default settings will load automatically every time you open the app. The settings can be temporarily changed in the main screen of the app, but the app reverts to the default settings every time you exit and re-open the app. To change the default settings later, return to the **Settings** menu by tapping the gear symbol in the top right corner of the main screen.

7. Select the desired language for the app. This is the language you will see when using the app. Customers will not see this language.
8. Select the desired language for email notifications. This is the language customers will see when you use the app to demonstrate email notifications. This language can be temporarily changed before a demo in the main screen of the app.
9. Enter a default email address for receiving email notifications.

**Tip:** Enter your own work email. This allows for quick email notification demos if you are unable to enter the customer's

information. You can enter additional email addresses in the main screen.

10. Enter a default account name for demonstrations. This account name will appear on the email notifications as the site location of an AED event. The account name can be temporarily changed before a demo in the main screen of the app.
11. Ensure the Trainer is turned on (green LED flashing) and the Bluetooth adapter is installed. Tap **Default CR2 Trainer** in the **Settings** menu of the app. The app will display **CR2T-** followed by the Bluetooth ID serial number on your Bluetooth adapter. Tap the serial number to pair your mobile device with the Trainer.

**Note:** If other Bluetooth-enabled Trainers are nearby, additional serial numbers may appear. Be sure to pair only with the desired device. To confirm the serial number of your Trainer, check the **Bluetooth ID** on the Main Menu of the Trainer or the serial number label on the Bluetooth adapter.

**Note:** To remove a Trainer from your smart device memory, go to the Bluetooth settings in your smart device.

12. Tap **Next** to exit the **Settings** menu and proceed to the main screen.

**Note:** These default settings can be changed at any time. Tap the gear symbol on the main screen to access the **Settings** menu.

## Using the Trainer Demo App

Before you start the app, ensure the Bluetooth adapter is installed in the USB port on the bottom of the Trainer, and the Trainer is turned on (green LED flashing or steady on).

Open the app on your smart device and view the main screen.

**Note:** After the initial setup is done, the app always opens to the main screen.

The main screen has the following menu items.

MENU ITEM	DESCRIPTION	OPTIONS
CR2 Trainer	Shows the serial number of the currently selected USB Bluetooth adapter ( <b>Bluetooth ID</b> on the Trainer setup screen). Your mobile device will pair with the Trainer that has this Bluetooth adapter installed, if possible.	Tap to show all Trainers that are available for pairing (requires Trainer on with USB Bluetooth adapter installed). Tap to select a different device. If you have not previously connected to a Trainer, your smart device will need to pair with it before you can connect.
CR2 Trainer Status	Shows the status of the currently selected Trainer, for information only. If the Trainer is not currently paired with your mobile device, the status is Not Available.	Connected, Power On, Pads On, Ready (lid closed and tray inserted), Not Ready (lid closed and tray not inserted), Not Available

MENU ITEM	DESCRIPTION	OPTIONS
Auto Notifications	<p>Determines whether email notifications will be sent automatically using signals from the Trainer to the app. Notifications that are sent automatically include AED Power On; Patient Connected; Device Not Ready.</p> <p>Notifications are sent each time one of these events occurs while <b>Auto Notifications</b> is turned <b>On</b>. If <b>Auto Notifications</b> is <b>Off</b>, emails will not be automatically triggered by the Trainer.</p>	On or Off
Manual Notifications	<p>Allows user to send additional manual email notifications as soon as the notification is selected. The most recent notification sent is displayed beneath this menu item.</p>	Battery Expiring, Software Update Available, Post Event Report
Email Address	<p>Currently selected address for email notifications. You can select multiple addresses to receive notifications simultaneously.</p> <p><b>Tip:</b> Enter the customer's email address to provide a powerful demo experience.</p>	Tap to add, delete, or select an email address. At least one email address must always be selected.
Account Name	<p>Shows the account and site name that will appear in email notifications.</p>	Tap to change the account name for the current demonstration.

Before a demo, change any settings as desired in the main screen, and then proceed with the demo. Do **NOT** completely exit the app before the demo, or the app will lose the changes you made in the main screen and reset to default settings.

If **Auto Notifications** is turned on, email notifications will be sent when the Trainer is turned on and when the electrode pads are applied. A **Device Not Ready** notification can also be sent by unplugging the electrodes and closing the lid.

To send notifications for Battery Expiring, Software Update Available, or Post Event Report, tap **Manual Notifications** and select the desired option.

The app stays connected to the Trainer until you select a different Trainer, turn off the Trainer by pressing the **POWER** button for at least 3 seconds, or completely exit the app. To completely exit the app:

- Android: Click the **BACK** button.
- iOS: Double-click the **HOME** button and slide the app upward.
- Windows: Double-click the **HOME** button and slide the app upward.

Each time you close and restart the app, the app resets to your default settings. If you minimize the app without closing it, your changes will stay until you exit.

To change default settings, tap the gear icon in the top right corner of the main screen.

## Preparing for a Demo

Before using the Trainer for a demo, ensure it is ready.

- Check the battery level on the Main Menu of the Trainer setup screen, and ensure the batteries have enough capacity to last through the demo.
- Ensure the device type in the Demo and cprINSIGHT Demo menus is appropriate for your audience (fully automatic or semi-automatic), or set up another training scenario according to your customer's preferences.
- Check the training electrode pads to ensure the adhesive is strong enough to adhere to a manikin. Change the electrode pads, if necessary.
- Repackage the electrode tray with the connector firmly in place and the tray cover lid sealed.
- If you will be demonstrating email notifications, check the following:
  - USB Bluetooth adapter is plugged in
  - Bluetooth function on your mobile device is turned on
  - Trainer is paired with your mobile device
  - Desired email addresses are selected
  - Automatic notifications are turned on

### Tips:

- Your default Trainer should automatically connect to your mobile device whenever the Bluetooth function is turned on, and the Trainer is on and in range. If your default Trainer status in the app is **Not Available**, check the Trainer list from the main screen and select your Trainer there.

- If you want to demo with a Trainer other than your default Trainer, select the preferred Trainer from the list of available Trainers (tap **CR2 Trainer** on the main screen of the app). When you exit and reopen the app, it will revert to your default Trainer.
- If someone else wants to demo with your default Trainer, make sure you are not connected. A Trainer can only connect with one app at a time.

## Performing a Demo

To begin a scenario, the electrode tray must be installed with the electrodes and electrode tray cover in place. Close the lid and begin the demo.

You do not need a remote control to advance the Trainer through the scenario. When you press the electrode pads onto the manikin, the Trainer detects the pressure on the pads and automatically advances to the next phase of the scenario.

You can pause the scenario at any time by pressing the **POWER** button for less than 3 seconds. Press the **POWER** button again to resume.

The scenario will end when it has completed the preset number of events (heart rhythm analysis cycles). When the scenario ends, prepare the Trainer for the next use.

- Place the electrode pads back on the liners.
- Coil the electrode wire neatly and store it under the liners.
- Reseal the electrode tray cover, starting from the corners.
- Close the lid.

When the lid is opened, the same scenario will start at the beginning. You can also press the **POWER** button to restart the scenario with the lid open.

**Note:** If the number of events for the scenario is set to **Repeat**, the scenario will continue until you either press the **POWER** button for more than 3 seconds, or close the lid.

## Simulating "Device Not Ready" Status

The Trainer can simulate a LIFEPAK CR2 defibrillator that is not ready for use.

1. Remove the electrode tray or unplug the electrodes as shown in Electrode Tray Features (on page 10).
2. Ensure the Trainer is turned on and close the lid. The green Power indicator will turn off and the Trainer will emit an alert tone consisting of 3 beeps. This simulates a LIFEPAK CR2 defibrillator that is not ready for use.

## Shutting Down the Trainer

To turn the Trainer off, press and hold the **POWER** button for at least 3 seconds.

If the Trainer is inactive for 15 minutes, it will turn off automatically. The automatic shutdown feature is disabled while the Trainer is actively connected to the Demo app. When the connection to the app is broken, the 15 minute timer begins. The connection to the app can be broken by pressing the **POWER** button to turn off the Trainer, separating the Trainer and app beyond Bluetooth range, or completely exiting the app. See Setting Up the Trainer Demo App (on page 29) for more information.

Automatic shutdown is also disabled when **Repeat** is selected for the number of analysis events in the current scenario. The Trainer will continue to run until the lid is closed or the **POWER** button is pressed for at least 3 seconds.

**Note:** When you are finished using the Trainer, be sure to completely exit the Trainer demo app on your smart device

and turn off the Trainer by pressing and holding the **POWER** button for at least 3 seconds. Failure to do this could deplete the batteries in the Trainer or smart device.

## Setting Your Default Trainer

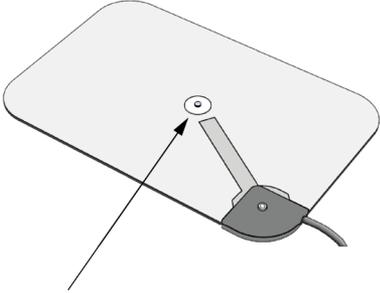
When you set up the Trainer demo app for the first time, you select your default Trainer. The app will always try to connect to that Trainer if it is on and in Bluetooth range. This enables quick setup before a demo – simply make sure the Trainer is on, the app is open, and the default Trainer has any status other than **Not Available**.

You can change your default Trainer in the setup menu. Tap the gear icon in the top right corner of the main screen and select **Default CR2 Trainer** to view a list of Trainers that are available. Select the desired Trainer and then tap the back arrow twice to return to the main menu.

**Note:** The Trainer must be turned on with the USB Bluetooth adapter plugged in to appear on the list of available Trainers in the app.

# Troubleshooting Tips

This section explains problem conditions that you may encounter while using the Trainer.

OBSERVATION	CORRECTIVE ACTION
Voice prompts don't start when the lid is opened.	<ul style="list-style-type: none"><li>• Confirm device is on and not paused (LED should be solid green).</li><li>• Close and re-open the lid.</li><li>• Press <b>POWER</b> button for more than 3 seconds to turn off device. Then close and re-open the lid.</li><li>• Confirm electrode tray is securely in place and electrode plug (beneath the electrode liners) is fully inserted.</li></ul>
Scenario does not advance to <b>Do Not Touch Patient</b> prompt when pads are placed on the manikin or other surface.	<ul style="list-style-type: none"><li>• Ensure pads are clean and firmly pressed onto the surface. The sensor on the center back of the pads must be pressed to advance the scenario.</li></ul>  A diagram showing a rectangular electrode pad with rounded corners. On the back of the pad, there is a circular sensor. A grey electrode plug is shown inserted into the sensor. An arrow points from the text in the adjacent cell to the sensor area.
<b>Check Pads For Good Contact To Bare Skin</b> or <b>Check Electrode Tray Connection</b> prompt is heard during a scenario.	<ul style="list-style-type: none"><li>• Ensure pads are clean and firmly pressed onto the surface. The sensor on the center back of the pads must be pressed to advance the scenario.</li></ul>

OBSERVATION	CORRECTIVE ACTION
<p><b>Do Not Touch Patient</b> prompt is heard before pads are removed from the tray.</p>	<ul style="list-style-type: none"> <li>• Ensure pads are centered on liners in the electrode tray. Pressure on the sensors could cause the scenario to advance to simulated analysis.</li> </ul>
<p>Text on setup screen is in an unfamiliar language.</p>	<ul style="list-style-type: none"> <li>• Scroll down to second item in the Main Menu and press <b>RIGHT</b> button until your language is visible. Press <b>CHECK</b> button to confirm selection and update text.</li> </ul>
<p>Setup screen is black.</p>	<ul style="list-style-type: none"> <li>• The setup screen goes dark after 5 minutes of inactivity. Press any display button to wake up the screen at the same point you left it.</li> <li>• After an additional 10 minutes of inactivity (15 minutes total), the Trainer will save your settings and turn off automatically. Press the <b>POWER</b> button to turn the Trainer back on.</li> </ul>

**OBSERVATION****CORRECTIVE ACTION**

Setup screen jumps to Main Menu or turns off.

- Avoid pressing the **CHECK** button until you have completed your selections. The **CHECK** button is designed to "quick run" your selected scenario according to the following guidelines.
    - If you press the **CHECK** button while editing a Scenario menu, the device saves and selects that scenario and returns to the Main Menu.
    - If you press the **CHECK** button while viewing the Main Menu, the device saves all selections and turns off the screen.
    - If you press the **CHECK** button while the text language field in the Main Menu is highlighted, the device updates the screen language to the selected language.
-

## Demo App Troubleshooting Tips

This section explains problem conditions that you may encounter while using the Trainer Demo App.

OBSERVATION	CORRECTIVE ACTION
Your Trainer does not appear in the app.	<ul style="list-style-type: none"><li>• Always turn the Trainer on before you start the app. The app can only connect if the Trainer is on and broadcasting.</li><li>• Ensure no one else in the vicinity has paired to your Trainer. Trainers can only be actively connected to one app at a time. If someone else is connected to your Trainer, they can break their connection by closing the app or turning the Trainer off. After the other connection is broken, you should be able to connect.</li><li>• Switch between the Trainer list and main screen or exit and reopen the app to refresh available trainers in the list.</li></ul>

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**OBSERVATION****CORRECTIVE ACTION**

The status for your Trainer is **Not Available**.

- Ensure the Bluetooth function on your smart device is turned on.
- Ensure the Trainer is turned on before you start the app.
- Tap **CR2 Trainer** on the main screen to access the list of available Trainers, and re-select your Trainer.
- If your Trainer does not appear in the list, confirm the Trainer is on, and then try going to the main screen and back into the list.
- Perform the initial pairing process again.
  - Go to the Bluetooth settings on your smart device.
  - Select **Unpair** (Android), **Forget this device** (iOS), or **Delete Pair** (Windows), and then re-open the Trainer app.
  - Tap **CR2 Trainer** on the main screen to access the list of Trainers, and then tap your Trainer to pair again.

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The **Bluetooth Status** in the **MAIN MENU** of the Trainer is **Connected**, but the Trainer is not actually connected to your smart device.

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- Turn the Trainer off and back on.

OBSERVATION	CORRECTIVE ACTION
Auto notifications are not being sent.	<ul style="list-style-type: none"> <li>• Ensure <b>Auto Notifications</b> is turned <b>On</b>.</li> <li>• Check <b>CR2 Trainer Status</b> on the main screen. The status should not be <b>Not Available</b>.</li> <li>• Ensure the correct Trainer is paired with your smart device. On the main screen of the app in the <b>CR2 Trainer</b> field, a serial number should be displayed. The serial number should match your USB Bluetooth adapter.</li> <li>• Ensure the Bluetooth function on your smart device is turned on.</li> </ul>
The Trainer does not turn off automatically after 15 minutes of inactivity.	<ul style="list-style-type: none"> <li>• While the Trainer is connected to an app, automatic shutdown is disabled. When you are finished using the Trainer, press the <b>POWER</b> button for at least 3 seconds to turn it off. You should also completely exit the app. If the app continues to run in the background, it could drain the battery on your smart device.</li> </ul>

# Caring for the Trainer

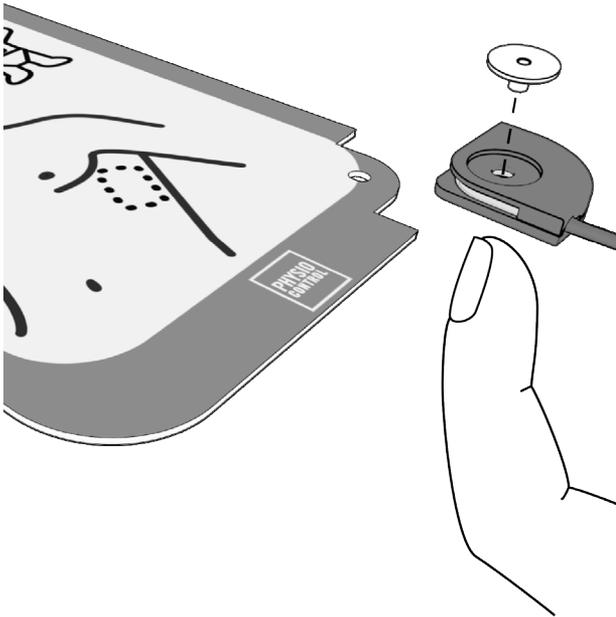
Follow these instructions to keep the LIFEPAK CR2 Trainer in good working condition.

## Replacing Training Electrodes

The reusable training electrodes can be used approximately 50 times. When the adhesive wears out, the electrodes should be replaced. You can order a set of 5 pairs of electrode pads, or a complete electrode tray.

### To replace electrode pads:

1. Push the retention pin out from the back of the electrode, and detach the old pad from the connector as shown below.



2. Insert the new pad into the connector and insert the pin. Ensure the connector is positioned so that the large-diameter recess for the head of the pin is at the front of the electrode, and the wire exits from the bottom of the electrode.

**Note:** A spare pin is included with each replacement pad.

3. Remove the disposable liner from the electrode pad and place the pad on the plastic liner in the electrode tray.

**To replace the electrode tray:**

1. Remove the old tray as described in Entering Setup Mode (on page 13).
2. Insert the new tray.

## Replacing Batteries

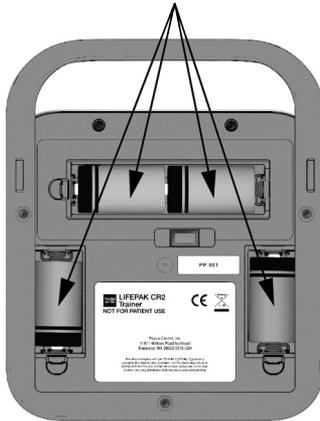
The Main Menu of the setup screen indicates whether the battery level is high, medium, or low.

BATTERY LEVEL	APPROXIMATE OPERATING TIME
High	60 to 120 hours
Medium	10 to 60 hours
Low	Less than 10 hours

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When the battery level is low, you will hear the **REPLACE BATTERY** voice prompt each time the device shuts down. When the battery level is low, install 4 new D cell batteries in the compartments shown in the following diagram.

**IMPORTANT!** For optimal performance, use Physio-Control replacement batteries. Alkaline batteries should always be used in the Trainer.



**Note:** Be sure to replace all 4 D cell batteries at the same time with 4 new batteries.

## Cleaning the Trainer

Clean the Trainer by wiping surfaces with one of the following:

- A lint-free, slightly damp cloth moistened with mild soap and water.
- A lint-free, slightly damp cloth moistened with denatured alcohol.

Observe the following precautions when cleaning:

- Do not immerse or soak the Trainer or any of its components.
- Do not use bleach, bleach dilution, or phenolic compounds.
- Do not steam or gas sterilize.

## **Recycling Information**

Recycle the device and its accessories at the end of their useful life.

Do not dispose of this product or its batteries in the unsorted municipal waste stream. Any batteries must be removed from the device and disposed of separately before disposing of the device. At all times dispose of this product and its accessories, including batteries, according to local regulations. Contact your local Physio-Control representative for assistance, or refer to [www.physio-control.com/recycling](http://www.physio-control.com/recycling) for instructions on disposing of this product.

## **Preparation**

Items should be clean and contaminant-free prior to being recycled.

## **Packaging**

Packaging should be recycled according to national and local regulations.

## Accessories and Replacement Parts

The following accessories and replacement parts are available for the Trainer. To order, contact your Physio-Control representative or your local authorized distributor.

DESCRIPTION	CATALOG NUMBER
Electrode tray (includes training electrode pads, plug, and tray cover)	11250-000145
Replacement training electrode pads (set of 5 pairs with 10 retention pins)	11250-000140
Electrode tray cover with red handle	11250-000139
Replacement batteries (set of 4)	11141-000166
3-pack battery compartment doors	21250-000003
USB Bluetooth adapter	11250-000141
LIFEPAK CR2 Trainer bag	11260-000048
Training mat	11250-000144

## Software Updates

Software updates for the LIFEPAK CR2 Trainer may be released occasionally. To find out whether the software in your Trainer is up to date, first determine which software version is currently installed. Remove the electrode tray and turn on the Setup Screen. Write down the **Software Version** shown at the bottom of the Main Menu, and then contact your Physio-Control representative or local authorized distributor to find out whether that software version is current.

## Installing Software Updates

Software updates are delivered on a USB flash drive. To install the software, follow these steps.

1. Insert the flash drive into the USB port on the bottom of the Trainer.



2. Turn on the Trainer, remove the electrode tray, and view the Setup Screen. Take note of the current software version displayed at the bottom of the Main Menu.

MAIN MENU	
Scenario	SCENARIO 1
Text Language	English
Primary Language	English U.S.
Volume	Auto
Battery Level	High
Bluetooth Status	Not Available
Bluetooth ID	Not Available
Software Version	CR2T-1.01.01
Available Update	CR2T-1.02.02
Update Now?	No

Current version

New version

3. **Available Update** should appear at the bottom of the Main Menu, followed by **Update Now?** Scroll down to **Update Now?**. Use the **RIGHT** button to select **Yes**, and then press the **CHECK** button. The screen will display **Updating** and show the status as percent complete.

**Note:** Software updates may take up to 15 minutes, depending on the type of update.

4. When the software update is complete, you should see **Passed**, followed by **Rebooting**. After the Trainer reboots, **Passed** should be displayed below **Update Now?**

If the software update is unsuccessful, you will see **Failed** below **Update Now?** See Troubleshooting Tips for Software Updates (on page 51) and try again. If the update is still unsuccessful, contact your Physio-Control representative or local authorized distributor for assistance.

5. To verify the update was successful, confirm the new software version is displayed in the Main Menu. When you are finished, remove the flash drive from the USB port.

## Troubleshooting Tips for Software Updates

This section explains problem conditions that you may encounter while updating the software.

OBSERVATION	CORRECTIVE ACTION
<b>Update Available</b> message does not appear when the USB flash drive is inserted.	<ul style="list-style-type: none"><li>• Ensure the flash drive is fully inserted.</li><li>• Ensure the battery level is <b>High</b> or <b>Medium</b>. The Trainer will not begin a software update with a low battery.</li><li>• Ensure the electrical contacts in the USB port are clean. Turn the Trainer off, insert and remove the USB flash drive several times, and then turn the Trainer back on.</li></ul>

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OBSERVATION	CORRECTIVE ACTION
Screen goes black during a software update and device will not turn on.	<ul style="list-style-type: none"> <li>Press and hold the <b>POWER</b> button for more than 10 seconds.</li> </ul>
Software update fails.	<ul style="list-style-type: none"> <li>Ensure the files on the flash drive have not been altered, and no other files have been added. The files on the flash drive are a set that must be used together.</li> </ul>

## Specifications

CHARACTERISTIC	DESCRIPTION
General	Device designed for low impact, low stress environments. For use in temperature-controlled areas protected from precipitation. Capable of withstanding heavy usage and prolonged periods of operation.
Physical Characteristics	Height: 27.2 cm (10.7 in) with handle Width: 21.8 cm (8.6 in) Depth: 8.6 cm (3.4 in) Weight: 1.8 kg (3.9 lb) with batteries
Batteries	6 volts/4 cells, range 3.3–6.6 Vdc Four non-rechargeable D-cell alkaline batteries. New batteries will provide not less than 100 hours of continuous operation at volume 4.
Operating Temperature	3° to 38°C (37° to 100°F)
Storage Temperature	-10° to 60°C (14° to 140°F). Remove batteries for storage. After storage at extreme temperatures, 2 hour recovery period is required.
Water Resistance	Spillage resistance per IEC 60601-1, 11.6.3.

# Symbols

The symbols in the following table may be found on the device or its packaging.

SYMBOL	DESCRIPTION
	Indicates compliance with the EMC Directive 2004/108/EC and the RoHS Directive 2011/65/EU.
	Do not dispose of this product in the unsorted municipal waste stream. Dispose of this product according to local regulations. See <a href="http://www.physio-control.com/recycling">www.physio-control.com/recycling</a> for instructions on disposing of this product.







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