



To Purchase, Visit [Avobus.com](https://www.avobus.com) or call [1-800-674-3655](tel:1-800-674-3655)

LIFEPAK[®] 15 MONITOR/DEFIBRILLATOR

Operating Instructions

Important Information

Device Registration

Please register your device at www.physio-control.com. This will ensure that you are notified of any product updates.

Text Conventions

Throughout these operating instructions, special text characters (for example, **CAPITAL LETTERS** such as **CHECK PATIENT** and **SPEED DIAL**) are used to indicate labels, screen messages, and voice prompts.

Applicable Products

These operating instructions are for use with the following product catalog numbers.

REF
99577-001382, 99577-001386, 99577-001387, 99577-001388, 99577-001389, 99577-001396, 99577-001400, 99577-001401, 99577-001402, 99577-001403, 99577-001404, 99577-001405, 99577-001406, 99577-001407, 99577-001408, 99577-001409, 99577-001410, 99577-001411, 99577-001412, 99577-001413, 99577-001414, 99577-001415, 99577-001416, 99577-001417, 99577-001418, 99577-001419, 99577-001420, 99577-001421, 99577-001422, 99577-001423, 99577-001424, 99577-002010, 99577-002011, 99577-002012, 99577-002013, 99577-002014, 99577-002015, 99577-002016, 99577-002017, 99577-002018, 99577-002019, 99577-002020, 99577-002021, 99577-002022, 99577-002023, 99577-002024, 99577-002025, 99577-002026, 99577-002027, 99577-002028, 99577-002029, 99577-002030, 99577-002031, 99577-002032, 99577-002033, 99577-002034, 99577-002035, 99577-002036, 99577-002037, 99577-002038, 99577-002039, 99577-002040

Physio-Control or its affiliates own, use, or have applied for the following trademarks or service marks: LIFEPAK, LIFEPAK CR, LIFEPAK EXPRESS, REDI-PAK, LIFENET, QUIK-LOOK, QUIK-COMBO, CODE SUMMARY, Shock Advisory System, CODE-STAT, DT EXPRESS, SunVue, and cprMAX. All other trademarks are trademarks of their respective owners or holders. The Oridion medical capnography in this product is covered by one or more of the following US patents: 6,428,483; 6,997,880; 5,300,859; 6,437,316 and their foreign equivalents. Additional patent applications pending. Specifications are subject to change without notice.



©2019 Physio-Control, Inc.
Publication Date: 01/2019



PN 3314911-030

To Purchase, Visit Avobus.com or call [1-800-674-3655](tel:1-800-674-3655)

Chapter 1 Preface	9
Introduction.....	11
Intended Use.....	11
Modes of Operation.....	12
Chapter 2 Safety Information	13
Terms	15
General Dangers and Warnings.....	15
Chapter 3 Basic Orientation	19
Front View	21
Back View	31
Batteries.....	33
Home Screen	35
Alarms	39
Options	41
Events	43
Chapter 4 Monitoring	45
Monitoring the ECG	47
Acquiring a 12-Lead ECG.....	59
Monitoring SpO2, SpCO, and SpMet.....	69
Monitoring Noninvasive Blood Pressure	80
Monitoring ETCO2	88
Monitoring Invasive Pressure	96
Monitoring Continuous Temperature.....	104
Vital Sign and ST Segment Trends.....	108
Chapter 5 Therapy	113
General Therapy Warnings and Cautions.....	115
Therapy Electrode and Standard Paddle Placement	117
Automated External Defibrillation (AED)	119
Manual Defibrillation	133
Synchronized Cardioversion Procedure.....	139
Noninvasive Pacing	144
Pediatric ECG Monitoring and Manual Mode Therapy Procedures.....	149

Chapter 6 Paddle Accessory Options	151
QUIK-COMBO Therapy Electrodes	153
Standard Paddles	156
Sterilizable Internal Defibrillation Paddles	160
Chapter 7 Data Management	161
Patient Records and Reports	163
Memory Capacity	169
Managing Current Patient Records	169
Managing Archived Patient Records	171
Chapter 8 Data Transmission	175
About Transmitting Patient Records and Reports	177
Preparing the Monitor for Transmission	178
Using Bluetooth Wireless Communication	178
Using a Direct Connection	183
Transmitting Reports	185
Considerations When Transmitting Data	187
Troubleshooting Tips	188
Chapter 9 Power Adapter	191
Basic Orientation	193
Using the Power Adapter	195
General Maintenance	198
Warranty	199
Chapter 10 Maintaining the Equipment	201
General Maintenance and Testing	203
Battery Maintenance	211
Cleaning the Device	214
Storing the Device	214
Loading Paper	215
General Troubleshooting Tips	216
Service and Repair	220
Service Life	220
Product Recycling Information	221

Warranty.....	221
Accessories.....	222
Appendix A Specifications and Performance Characteristics	225
Specifications and Performance Characteristics	227
Appendix B Screen Messages	249
Summary of Screen Messages.....	251
Appendix C Defibrillation Clinical Summaries	257
Defibrillation of Ventricular Fibrillation and Ventricular Tachycardia.....	259
External Cardioversion of Atrial Fibrillation.....	261
Intra-Operative Ventricular Defibrillation.....	265
Clinical Summary: Monophasic vs. Biphasic Waveforms: Out-of-Hospital Trial.....	268
Appendix D Shock Advisory System	271
Overview	273
Performance Verification	274
Appendix E SpO2 Specifications and Validation	279
SpO2 Specifications and Validation	281
Masimo Clinical Validation Data	289
Nellcor Clinical Validation Data.....	290
Appendix F Electromagnetic Compatibility Guidance	291
Electromagnetic Compatibility Guidance	293
Appendix G Symbols	299
Symbols	301
Index	307

Preface

This chapter provides a brief introduction to the LIFEPAK® 15 monitor/defibrillator and describes the product’s intended use.

Introduction 11

Intended Use 11

Modes of Operation..... 12



To Purchase, Visit [Avobus.com](https://www.avobus.com) or call [1-800-674-3655](tel:1-800-674-3655)