

**FLUKE**®

**Biomedical**



## *ProSim*™ Vital Signs Simulators

**Comprehensive patient monitor testing  
from an ISO 13485 medical device company.**

# Together we defined true innovation

ProSim Vital Signs Patient Simulators were conceived and designed in partnership with biomedical technicians and clinical engineers all over the globe.

We observed what you test and how; where you travel and how you get there. We noted your workarounds and pain points, and then discussed our observations with you. We learned your routines and methodologies, and together we defined true innovation.



Complete PMs in five minutes

## ProSim 8 Vital Signs Simulator

- PMs in minutes
- All-in-one, comprehensive multifunction testing
- Rechargeable battery runs 9 hours continuously
- Small enough for the field; uncompromised test capabilities

Whatever you need, we've got you covered.

Quick checks in 60 seconds

## ProSim 4 Vital Signs Simulator and SPOT Light

- In and out in 60 seconds
- One touch to results
- Rechargeable battery operation
- Touchscreen technology



Perfect for field testing

## ProSim 3 and 2

- Light weight, battery life to last a full work day
- Field upgradeable firmware
- Simple user interface and stay connected ECG posts
- Streamlined cable compatibility—updated DIN connectors ensure cable ProSim family



## Comprehensive testing made easy: all-in-one complete patient monitor test tool

### Need to complete PMs for an entire department or facility?

From the single repaired device on the bench to the fleet in the field, ProSim 8 Vital Signs Simulator is the smartest patient simulator in the world for comprehensive patient monitor testing. Designed to get you in and out of most locations in minutes, this multifunction simulator with advanced technologies and robust performance allows top confidence in patient monitor performance and supports passing regulatory audits with ease.

## Quick-check testing: get in and out in 60 seconds

### ICU calls: a monitor is not performing correctly.

Grab your ProSim 4 Vital Signs Simulator and go! This tester combines all needed quick-check capabilities into a package 90 % smaller/lighter. Featuring touchscreen technology for quick and simple one-touch testing, ProSim 4 is the perfect patient simulator for first-call patient monitor quality assurance and safety professionals.

## High acuity scenarios: field testing with four channels

### ER calls: needs to ensure all BP channels are functioning properly.

ProSim 3 is the only patient monitor tester with four IBP channels. It's the fastest way to ensure multi-channel monitors, often found in the ER, are performing correctly.

### Regulations matter for test tools.

Did you know the United States Food and Drug Administration has determined NIBP and ECG patient simulators to be Class II medical devices? These Class II medical devices sold in the United States legally require FDA 510(k) clearance. ProSim is manufactured for medical device users by Fluke Biomedical, an ISO 13485 medical device company.

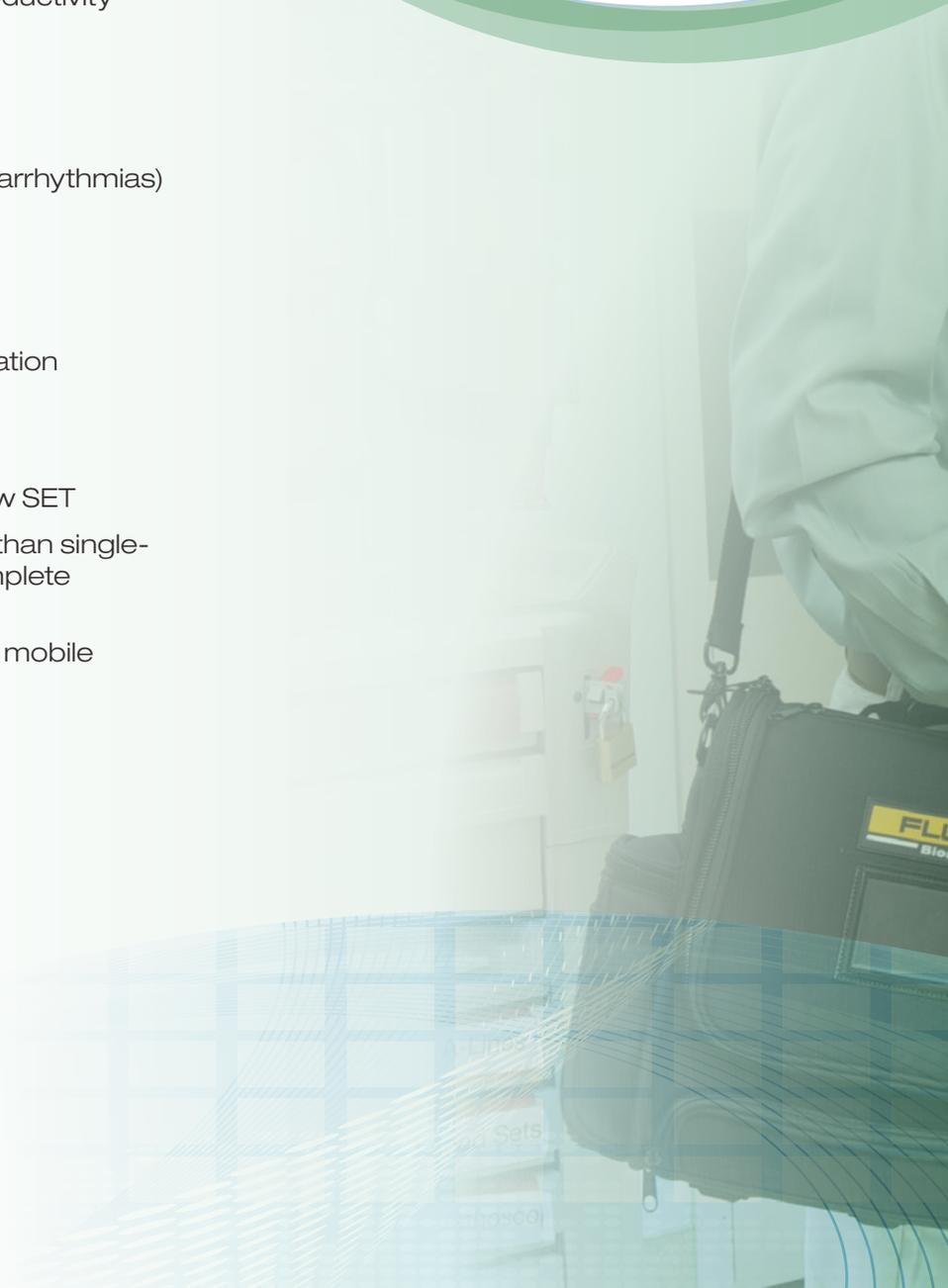
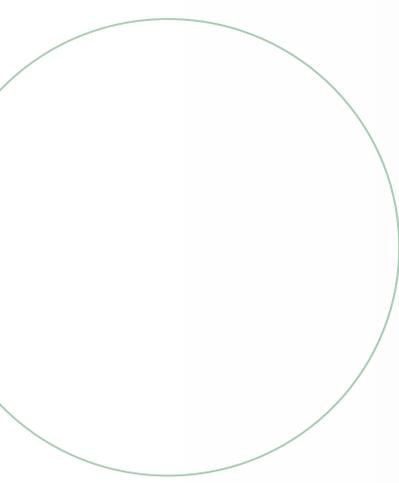
# ProSim 8 Vital Signs Simulator

## Advanced technology

- Total patient monitor quality/safety testing, from NIBP static pressure linearity and dynamic pressure repeatability tests, EC13, ACLS ECG waveforms, Nellcor and Nonin SpO<sub>2</sub> low perfusion to Masimo Rainbow Set
- Physiologically synchronized pulses across all parameters
- Wireless PC communication, customized presets, auto-sequences, barcode scanning, onboard memory, direct data capture, printing functions and single-step (1 BPM/mmHg) adjustability results in maximum productivity

## All-in-one testing

- 8-in-1 multifunction simulator tests
  - ECG (including fetal ECG/IUP and arrhythmias)
  - Respiration
  - Temperature
  - IBP
  - Cardiac output/cardiac catheterization
  - NIBP
  - SpO<sub>2</sub>
  - Masimo multi-wavelength Rainbow SET
- 80 % smaller and 17 lb (8 kg) lighter than single-function test tools, designed to complete PMs in minutes
- Customized carry case doubles as mobile work station



Patent pending secure ECG connections

Rechargeable battery which runs 9 hours continuously

Pass regulatory audits with ease

**No-hassle connections**

- Patent pending secure ECG cable connections compatible with both snaps and banana jacks—no adapters, no modules and leads don't pop off
- No extra modules needed for oximeter testing
- Wireless communication to laptop

**Pass regulatory audits with ease**

- Barcode scanning and direct data capture and printing functionality
- Software solution for regulatory reporting and procedure standardization/automation
- Manufactured by an ISO 13485 Medical Device company for Medical Device Users



# ProSim 4 and SPOT Light Vital Signs Simulator

## One touch to results

The ProSim 4 Vital Signs Simulator offers fast and simple one-touch testing for patient monitor performance quick checks and troubleshooting.

Designed to get you in and out of most locations in 60 seconds, ProSim 4 offers 12-lead ECG simulation, respiration, IBP and NIBP testing in the palm of your hand.

Featuring specialized stay-connected ECG posts to ensure secure lead connections and smart, no-hassle navigation, this quick-check tool with patient pre-sets and auto sequences is your first line of defense for on-the-go troubleshooting and testing.

## Features

- Accurate/repeatable 12-lead ECG, respiration, IBP and physiologically-relevant NIBP simulation
- 90 % smaller/lighter than single function testing tools
- Integrated, easily-replaceable battery capable of running all day
- One touch to most performance tests and checks
- First biomedical test tool ever to use touchscreen technology
- Easily connects all 12-lead ECG snaps comfortably and they don't fall off
- Onboard patient simulations pre-sets and auto sequences



Touch screen technology  
Secure ECG posts  
Rechargeable battery



# ProSim 2 and 3 Vital Signs Simulator

## The “Just Right” device

Don't need a comprehensive patient monitor tester? The ProSim 3 and ProSim 2 Vital Signs Simulators are the clear choices for biomedical engineers and field service technicians that need a quality, feature-rich device with high portability. Choose one of these modern vital signs simulators for preventive maintenance, troubleshooting and repair.

The ProSim 3 and 2 feature the perfect amount of features for testing in the field. We like to call it the Just Right feature set, and it includes:

- ECG
- Pacemaker
- Arrhythmia and performance testing
- Respiration
- Invasive blood pressure
- Temperature
- Cardiac output (ProSim 3 only)
- Fetal/maternal (ProSim 3 only)

## Features

- Portable, for evaluating the performance of patient monitors in the field
- 20 % lighter and 25 % smaller than preceding technology
- 43 high-quality waveforms
- With four IBP channels, ProSim 3 tests even the highest acuity scenarios
- Stay-connected ECG posts for secure lead connections
- Upgraded DIN connectors ensure consistency with the ProSim family; minimize cable compatibility issues
- Field upgradeable, and easily paired with other devices for comprehensive testing

Portable for field testing  
43 high-quality waveforms  
Upgraded DIN connectors



# Compare and decide

Feature	ProSim 8	ProSim 4	ProSim 3 and 2	SPOT Light
Weight	1.87 kg (4.2 lb)	0.8 kg (1.93 lb)	.47 kg (1.4 lb)	.25 kg (.55 lb)
Display	Color LCD	Color LCD touchscreen	LCD greyscale	LCD greyscale
12 lead ECG simulation	•	•	•	
ECG rate	10 BPM to 360 BPM in 1 BPM steps	30 BPM to 320 BPM in 30 BPM steps	•	
ECG performance testing	•	•	•	
Fetal ECG/IUP	•		ProSim 3 only	
Respiration simulation	•	•	•	
Temperature simulation	•		•	
Invasive blood pressure simulation	• (2 channels)	• (1 channel)	ProSim 3: 4 channels ProSim 2: 2 channels	
Cardiac output	•		ProSim 3 only	
Cardiac catheterization	•			
Non-invasive blood pressure (NIBP) simulation	•	•		
Continuous static pressure change	•			
Internal pressure pump	•	Use manual inflation bulb		
Manometer	•	•		
Leak test	•	•		
Over pressure test	•	•		
SpO <sub>2</sub>	• (optional)			•
Masimo Rainbow SET simulation	• (optional)			
Custom r-curve	•			
Physiologically synchronized pulses across all parameters	•	•		
Onboard, patient presets and autosequences	• (customizable)	•		•
Barcode scanning	•			
On board memory/data saving /printing	•			
Wireless PC Connectivity	•			
Ansur operation	• (optional)			
Long-lasting, integrated, rechargeable battery	•	•	•	
Multi-language navigation/interface	•	•		
Manufactured by an ISO 13485 medical device company	•	•	•	

## Lifetime patient monitor testing support Only from Fluke Biomedical

No-cost online educational opportunities  
Get the most from your investment thanks to self-paced training modules, educational tutorials, and patient monitor testing support materials available to assist you any time on the Fluke Biomedical website.

- Learn more about patient monitor testing
- Comprehensive device/testing tutorials
- Sample PM procedures and checklists

CarePlan Packages: priority services to keep you up and running  
CarePlan packages offer priority bench service, extended warranties, value pricing on services, VIP technical support, expedited return shipping, productivity consultation services, educational training, and more.

- Fastest turnaround and expedited shipping
- Extended warranties and reminder notifications
- Loaners and discounts



## Fluke Biomedical.

*Better products. More choices. One company.*

**Fluke Biomedical**  
6045 Cochran Road  
Cleveland, OH 44139-3303 U.S.A.

**Fluke Biomedical Europe**  
Science Park Eindhoven 5110  
5692EC Son, The Netherlands

**For more information, contact us:**

In the U.S.A. (800) 850-4608 or  
Fax (440) 349-2307  
In Europe/M-East/Africa +31 40 267 5435 or  
Fax +31 40 267 5436  
From other countries +1 (440) 248-9300 or  
Fax +1 (440) 349-2307  
Email: sales@flukebiomedical.com  
Web access: www.flukebiomedical.com

©2011, 2013 Fluke Biomedical. Specifications subject to change without notice. Printed in U.S.A.  
3/2013 3996633B\_EN

**Modification of this document is not permitted without written permission from Fluke Corporation.**