

# BIONIC™ HYBRID SIMULATOR

A Hybrid Simulation Solution for  
Standardized Patient Assessment

**Bionic Hybrid Simulator** is a garment worn by a Standardized Patient (SP) for the purpose of simulating physiological conditions to test a Student or an examiner's diagnostic and procedural skills. Bionic Hybrid Simulator controlled wirelessly by simulation software, enhances the exam performance by responding in real time to diagnosis and treatment while providing feedback to the SP and instructor.

- » Wearable technology which can be used on live patients or manikins
- » Simulation of heart, breath, and bowel sounds
- » Carotid and radial artery pulses
- » 5-wire EKG Connection
- » Simulates multiple physiological conditions
- » Real time diagnostics and treatment capabilities
- » Cardionics SimScope Wifi and tablet Included with system
- » BP SIM blood pressure cuff



Awards received for SimShirt®  
System technology which is used in  
Bionic Hybrid Simulator, SimScope®,  
SAM Basic®, and PAT Basic® systems



**Cardionics**  
The Heart of Auscultation 

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# BIONIC

## HYBRID SIMULATOR

Developed in conjunction with The Multidisciplinary Simulation Center at Mayo Clinic's campus in Rochester\*.

Cardionics is excited to announce the Bionic Hybrid Simulator, a hybrid approach to Standardized Patient assessment. When asked about the advantages of using the Bionic Hybrid Simulator with Standardized Patients, **Thom Belda, Enterprise Simulation Technology Architect, from Mayo Clinic** - and primary contact in the joint development with Cardionics stated:

“Human to human interaction increases aspects of realism, believability and engagement for participants training in medical simulation.”



Benefits	Bionic Hybrid Simulator	SimShirt	SimScope
Award winning RFID technology	✓	✓	✓
Simulates multiple physiological conditions	✓	✓	✓
Can be worn by students and manikins	✓	✓	✓
High-fidelity auscultation sounds	✓	✓	✓
Simple one-on-one interaction	✓	✓	✓
Quick setup	✓	✓	✓
Real time diagnostics and treatment capabilities	✓	✓	✓
Washable/Reusable	✓	✓	
RFID sensor tags integrated	✓	✓	
Audio prompts for SP	✓		
Pulse points	✓		
5-Wire EKG connections	✓		