

## SC SimCube® Simulatore NIBP e paziente



**Semplice da usare** : si comanda con un solo pulsante

**Accurato**: simula le curve oscillometriche adattando la forma e l'ampiezza delle onde in base alla pressione.

**Piccolo ed efficiente**: può effettuare fino a 250 simulazioni da un singolo set di 4 batterie alcaline usando l'opzione **Battery Boost**.

**Certificato di calibrazione incluso**



- **Simulazione NIBP**: Adulti, Neonatale, Ipertensione, Ipotensione
- **Manometro Digitale**: **SC5** (+/- 400mmHg), **SC1, SC2, SC3, SC4**, (0-400mmHg)
- **Simulatore paziente ECG a 10 connessioni**: 10 diverse frequenze cardiache, sincronizzato con NIBP
- **Sequenze di Aritmia**: PVC, Run, VTACH, VFIB, Asistola
- **Respirazione**: 3 frequenze, più una sequenza di 7 diverse frequenze
- **IBP**: 7 pressioni statiche, 3 dinamiche (solo **SC5**)
- **Simulazione Pacer**
- **Peak Detect**: per verificare la sovra pressione in passi da 0.5 mmHg
- **Leak Test Mode**: simula la dispersione di cuffia
- **Modo automatico di test per allarmi**: verifica le frequenze cardiache di allarme (solo **SC4** e **SC5**)

| Prodotto  | NIBP         |           |               |            |                    |                 |                | Canali IBP           |                 | ECG/Resp           |         |        | SP02        | Generale      |
|-----------|--------------|-----------|---------------|------------|--------------------|-----------------|----------------|----------------------|-----------------|--------------------|---------|--------|-------------|---------------|
|           | 120/80 Adult | 70/40 Neo | 190/120 Hyper | 80/40 Hypo | Manometro Digitale | Sovra Pressione | Leak Test Modo | Canali Statici 0-250 | Canali Dinamici | ECG 12 Lead + Resp | Aritmia | HR Seq | SP02 Ottico | Battery Boost |
| SC-1      | ↗            | ↗         | ↗             |            | ↗                  |                 |                |                      |                 | ↗                  |         |        |             | N/A           |
| SC-2      | ↗            | ↗         | ↗             |            | ↗                  |                 |                |                      |                 | ↗                  |         |        |             | N/A           |
| SC-3      | ↗            | ↗         | ↗             |            | ↗                  | ↗               |                |                      |                 |                    |         |        |             | OPZIONE       |
| SC-4      | ↗            | ↗         | ↗             |            | ↗                  | ↗               |                |                      |                 | ↗                  |         | ↗      |             | OPZIONE       |
| SC-4KIT   | ↗            | ↗         | ↗             |            | ↗                  | ↗               |                |                      |                 | ↗                  |         | ↗      |             | ↗             |
| SC-5      | ↗            | ↗         | ↗             | ↗          | ↗                  | ↗               | ↗              | 1                    | 1               | ↗                  | 6       | ↗      |             | OPZIONE       |
| SC-5KIT   | ↗            | ↗         | ↗             | ↗          | ↗                  | ↗               | ↗              | 1                    | 1               | ↗                  | 6       | ↗      |             | ↗             |
| OxSim     |              |           |               |            |                    |                 |                |                      |                 |                    |         |        | ↗           | OPZIONE       |
| SC4+OXKIT | ↗            | ↗         | ↗             |            | ↗                  | ↗               |                |                      |                 | ↗                  |         | ↗      | ↗           | ↗             |
| SC5+OXKIT | ↗            | ↗         | ↗             | ↗          | ↗                  | ↗               | ↗              | 1                    | 1               | ↗                  | 6       | ↗      | ↗           | ↗             |

\*Tutti i KITs includono 5 adattatori NIBP adapters, Opzione Battery Boost (oltre 150 NIBP simulazioni con 4 batterie AA alcaline), borsa da trasporto, cuffia e alimentatore. SC4+OXKIT e SC5+OXKIT includono anche un OxSim Simulatore ottico si SPO2 tascabile. **L' SC-1 e SC-2 non sono compatibili con l' opzione Battery Boost.**

**Technical Specifications for all SimCube Configurations**

| <b>Physical Dimensions</b>   | <b>SC-5</b>                                                                                                                                                                                                                                                                | <b>SC-3/4</b>                                                                                                                                                                   | <b>SC-1/2</b>                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Size                         | 3"x 3" x 3.5" (7.6cm X 7.6cm X 8.9cm)                                                                                                                                                                                                                                      | 3"x 3"x 3.5" (7.6cm X 7.6cm X 8.9cm)                                                                                                                                            | 3"x 3"x 3.5" (7.6cm X 7.6cm X 8.9cm)                                                                                         |
| Weight                       | 2.5 Lbs                                                                                                                                                                                                                                                                    | 2.5 Lbs                                                                                                                                                                         | 2.5 Lbs                                                                                                                      |
| Power                        | External A/C Adaptor (Output: 6VDC / 2amps, 2.1mm, center positive connector) or 4 AA Batteries (with Battery Boost Option)                                                                                                                                                | External A/C Adaptor (Output: 6VDC / 2amps, 2.1mm, center positive connector) or 4 AA Batts (with Battery Boost Option)                                                         | External A/C Adaptor (Output: 6VDC / 2amps, 2.1mm, center positive connector)                                                |
| NIBP Connection              | Quick Disconnect                                                                                                                                                                                                                                                           | Quick Disconnect                                                                                                                                                                | Quick Disconnect                                                                                                             |
| ECG/Resp Connection          | 10 ECG snaps                                                                                                                                                                                                                                                               | 10 ECG snaps                                                                                                                                                                    | 10 ECG snaps                                                                                                                 |
| IBP Connection               | Mini-DIN                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |                                                                                                                              |
| <b>Manometer</b>             |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |                                                                                                                              |
| Range                        | - 400 to + 400 mmHg                                                                                                                                                                                                                                                        | 0 to +480 mmHg                                                                                                                                                                  | 0 to +480 mmHg                                                                                                               |
| Precision                    | 0.1 mmHg                                                                                                                                                                                                                                                                   | 0.5 mmHg                                                                                                                                                                        | 0.5 mmHg                                                                                                                     |
| Accuracy                     | +/-1 mmHg                                                                                                                                                                                                                                                                  | +/-1% of reading                                                                                                                                                                | +/-1% of reading                                                                                                             |
| <b>User Interface</b>        |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |                                                                                                                              |
| Single Button Operation      |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |                                                                                                                              |
| Operating Modes              | Adult NIBP<br>Neo NIBP<br>Hypertensive NIBP<br>Hypotensive NIBP<br>Manometer<br>Peak Detect / Overpressure<br>HR Seq. Alarm Test<br>ECG Asystole<br>ECG Resp OFF<br>ECG Pace ON<br>Arrhythmia Sequence<br>Invasive BP Zero<br>Invasive BP 100, 200<br>Invasive BP Sequence | Adult NIBP<br>Neo NIBP<br>Hypertensive NIBP<br>Manometer<br>Peak Detect / Overpressure<br>Alarm Test (SC-4)<br>ECG Asystole (SC-4)<br>ECG Resp OFF (SC-4)<br>ECG Pace ON (SC-4) | Manometer<br>Adult NIBP<br>Neo NIBP<br>Hypertensive NIBP<br>ECG Asystole (SC-2)<br>ECG Resp OFF (SC-2)<br>ECG Pace ON (SC-2) |
| <b>NIBP Adult Simulation</b> |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |                                                                                                                              |
| Simulated Pressure           | 120/80 (97) mmHg                                                                                                                                                                                                                                                           | 120/80 (97) mmHg                                                                                                                                                                | 120/80 (97) mmHg                                                                                                             |

|                                     |                                                              |                                                           |                                               |
|-------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------|
| Simulated Heart Rate                | 70 bpm                                                       | 70 bpm                                                    | 70 bpm                                        |
| Simulated Pulse Volume              | 1 ml                                                         | 1 ml                                                      | 1 ml                                          |
| <b>NIBP Neonatal Simulation</b>     |                                                              |                                                           |                                               |
| Simulated Pressure                  | 70/40 (51) mmHg                                              | 70/40 (51) mmHg                                           | 70/40 (51) mmHg                               |
| Simulated Heart Rate                | 95 bpm                                                       | 95 bpm                                                    | 94 bpm                                        |
| Simulated Pulse Volume              | 0.25 ml                                                      | 0.25 ml                                                   | 0.25 ml                                       |
| <b>NIBP Hypertensive Simulation</b> |                                                              |                                                           |                                               |
| Simulated Pressure                  | 190/120 (142) mmHg                                           | 190/120 (142) mmHg                                        | 190/120 (142) mmHg                            |
| Simulated Heart Rate                | 70 bpm                                                       | 70 bpm                                                    | 70 bpm                                        |
| Simulated Pulse Volume              | 1 ml                                                         | 1 ml                                                      | 1 ml                                          |
| <b>NIBP Hypotensive Simulation</b>  |                                                              |                                                           |                                               |
| Simulated Pressure                  | 80/40 (58) mmHg                                              |                                                           |                                               |
| Simulated Heart Rate                | 70 bpm                                                       |                                                           |                                               |
| Simulated Pulse Volume              | 1 ml                                                         |                                                           |                                               |
| <b>ECG Simulation</b>               |                                                              | <b>(SC-4 only)</b>                                        | <b>(SC-2 only)</b>                            |
| Isolated                            | Yes                                                          | Yes                                                       | Yes                                           |
| Synchronized with NIBP              | Yes                                                          | Yes                                                       | No                                            |
| R Wave Size                         | 1mV (lead I) +/- 5%                                          | 1mV (lead I) +/- 5%                                       | 1mV (lead I) +/- 5%                           |
| R Wave Width                        | 35 ms                                                        | 35 ms                                                     | 35 ms                                         |
| Wave Shape                          | QRS wave                                                     | QRS wave                                                  | R wave only                                   |
| Connection                          | 10 Snaps                                                     | 10 Snaps                                                  | 10 Snaps                                      |
| Simulation Rates                    | 70, 95, Asystole, Arrhythmia, Pacer, HR seq.                 | 70 bpm (95 bpm for neonatal), Asystole, Pacer             | 70 bpm (94 bpm for neonatal), Asystole, Pacer |
| <b>HR Sequence (Alarm Test)</b>     |                                                              | <b>(SC-4 only)</b>                                        |                                               |
|                                     | 30 seconds each of:<br>30, 60, 90, 120, 45, 160, and 220 bpm | 30 seconds each of: 30, 60, 90, 120, 45, 160, and 220 bpm |                                               |
| <b>Pacer Simulation</b>             |                                                              | <b>(SC-4 only)</b>                                        | <b>(SC-2 only)</b>                            |
| Isolated                            | Yes                                                          | Yes                                                       | Yes                                           |
| Synchronized with NIBP              | Yes                                                          | Yes                                                       | No                                            |
| Pacer Size                          | 3 mV                                                         | 3 mV                                                      | 3 mV                                          |
| Pacer Width                         | 1.2 ms                                                       | 1.2 ms                                                    | 1.2 ms                                        |
| <b>Respiration Simulation</b>       |                                                              | <b>(SC-4 only)</b>                                        | <b>(SC-2 only)</b>                            |
| Isolated                            | Yes                                                          | Yes                                                       | Yes                                           |
| Wave Shape                          | Square Wave                                                  | Square Wave                                               | Square Wave                                   |
| Size                                | 4 Ohm                                                        | 4 Ohm                                                     | 4 Ohm                                         |

|                                           |                                                                                                                                                                                               |                                                     |                              |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------|
| Rate                                      | 20 bpm (40 bpm for neonatal)                                                                                                                                                                  | 35 bpm (47 bpm for neonatal)                        | 35 bpm (47 bpm for neonatal) |
| Simulation rates                          | 30 seconds each of: Apnea, 30, 45, 60, 22, 80, 110.                                                                                                                                           | 30 seconds each of: Apnea, 30, 45, 60, 22, 80, 110. |                              |
| <b>Arrhythmia Simulation</b>              |                                                                                                                                                                                               |                                                     |                              |
|                                           | Cardiac failure sequence: 90 seconds of normal beats interspersed with PVCs and Runs, followed by 30 seconds of VTAC, followed by 30 seconds of VFIB, concluding with 30 seconds of asystole. |                                                     |                              |
|                                           |                                                                                                                                                                                               |                                                     |                              |
| <b>Peak Detect</b>                        |                                                                                                                                                                                               |                                                     |                              |
| Precision                                 | 1mmHg                                                                                                                                                                                         | 1mmHg                                               |                              |
|                                           |                                                                                                                                                                                               |                                                     |                              |
| <b>Invasive Blood Pressure Simulation</b> |                                                                                                                                                                                               |                                                     |                              |
| Isolated                                  | Yes                                                                                                                                                                                           |                                                     |                              |
| Synchronized with NIBP                    | Yes                                                                                                                                                                                           |                                                     |                              |
| Excitation Voltage                        | DC range = 3.3 to 5.7 AC range = 6.65 to 11.4p-p                                                                                                                                              |                                                     |                              |
| Pressure range                            | 0-250 mmHg                                                                                                                                                                                    |                                                     |                              |
| Simulated Pressure accuracy               | +/- 1 mmHg                                                                                                                                                                                    |                                                     |                              |
| Wiring                                    | + Excit = pin 1, - Excit = pin 4, + Sig = pin 3, -Sig = pin 6                                                                                                                                 |                                                     |                              |
| Simulation rates                          | Dynamic = 120/80, 70/40, 190/120.<br>Static = 0, 100, 200.<br>Step = 0,25,50,100,150,200, 250                                                                                                 |                                                     |                              |
| <b>Environmental</b>                      |                                                                                                                                                                                               |                                                     |                              |
| Voltage Range                             | 100-240 VAC, 50-60 Hz                                                                                                                                                                         | 100-240 VAC, 50-60 Hz                               | 100-240 VAC, 50-60 Hz        |