



TruMan Manual

Version 1.1



Table of Contents

TRUMAN

Introduction	3
Quick Set Up Guide	4
CPR Training Mode	5
CPR/AED Training Mode	6
Airway Management	8
Console Details	9
Care & Maintenance	10
ROSH/WEEE Directive	11

Introduction

The Truman manikin has been designed and engineered to bring added realism to training in cardiopulmonary resuscitation (CPR) and simulation of defibrillation technique using an automated external defibrillator (AED).

These features, combined with the unique AirSim airway management system, enable Truman to deliver a comprehensive and cost effective training experience.

Thank you for purchasing TruMan. Please read the following pages to ensure you get maximum benefit from the product

Contents

Included in the black carry case are the following items.

- 1 x TruMan manikin
- 1 x Controller Unit
- 1 x 9 Way Cable
- 2 x AED training “electrode” pads
- 1 x AED electrode connection cable
- 1 x Power Supply

If any of these items are not present, please contact Trucorp immediately.

Quick Set Up Guide

1. Connect one end of the 9 way cable to Truman base port (colour coded)
2. Connect other end of the 9 way cable to the controller module
3. Attach AED electrode pads to AED connection cable using the plastic clips
4. Insert AED connection cable to controller module
5. Plug power supply into mains socket
6. Insert power cable into Truman base port.
7. Press POWER button on controller module.

The LCD will be activated and show the setup menu to enable selection of training modes.

The MENU screen shows the following options.

- CPR Training Mode
- CPR/AED Training Mode
- System Set Up

The MENU items are accessed using the UP and DOWN buttons and can be selected using the PLAY/PAUSE button

System Setup allows the Language to be selected - press PLAY/PAUSE when desired language is highlighted.

CPR Training Mode

The CPR Training Mode enables users to practise and monitor their CPR performance in real-time.

Key performance indicators include depth of chest compression, rate of chest compression (per minute) and effectiveness of ventilation.

Instructions for Use

1. Power on the controller module
2. Use UP and DOWN arrows to select CPR Training Mode in the menu
3. Press PLAY/PAUSE to enter CPR Training Mode
4. The LEDs will light up on the controller module indicating it is ready for use
5. To quit CPR Training Mode at anytime, press PLAY/PAUSE to return to menu

DETAILS

Truman has an inbuilt pressure sensor located on the chest. This helps verify correct hand placement during CPR.



Correct hand placement is shown when the LED turns green on the icon shown (left).

Red denotes incorrect placement.

N.B. The LED should turn red between compressions as pressure should be applied on the compression only.

During compressions the LEDs will light up below the midpoint line using a “traffic light” system



Amber - compression depth not sufficient

Green - compression depth within ERC/AHA guidelines (approx 4-5cm depth)

Red - compression depth exceeding recommended guidelines

During compressions the rate of compression is shown on the LCD display under the icon. N.B. This is sampled every 1.5 seconds and will fall to zero once compressions are stopped.

Ventilation works in a similar principle



Amber - insufficient ventilation

Green - successful ventilation

Red - over ventilation

Outputs are noted under the following icon on the LCD display.

Rate of Compression



Successful Ventilations

CPR/AED Training Mode

The Truman Multi features an inbuilt AED training function, consisting of 3 pre-programmed training scenarios taken from standard AED training algorithms. The AED training function on the controller interacts with the Truman model to enhance the training experience.

Please note the Truman model is NOT designed to take a real shock - DO NOT SHOCK USING REAL AED - this may result in injury.

Instructions for Use

1. Power on the controller module
2. Use UP and DOWN arrows to select CPR/AED Training Mode in the menu
3. Press PLAY/PAUSE to enter CPR/AED Training Mode menu
4. Use UP and DOWN arrows to select AED Mode 1, Mode 2 or Mode 3
5. Press PLAY/PAUSE to enter selected scenario
6. Press POWER button to start scenario and follow onscreen and audio prompts
7. Pressing PLAY/PAUSE at any time during the scenario provides access to options CONTINUE, RESTART or RETURN TO MAIN MENU

NB. Other AED training equipment can be used with the Truman model, however there will be no interaction between the model and the AED training unit.

DETAILS

The scenarios are started by pressing the POWER button. Once pressed the controller module prompts the user to attach electrode pads.

There are sensors attached to the AED electrode pads, which verify correct placement of the pads on the Truman torso.

Correct placement will be verified by the LEDs, on the icon below, changing to GREEN. RED LED means the pad is incorrectly placed or has become detached from the Truman torso.



Once the pads are correctly attached the scenario moves automatically to ANALYSING RHYTHM

Depending on the mode selected, the AED trainer will state SHOCK ADVISED (MODE 1) or NO SHOCK ADVISED (MODE 2).

If SHOCK ADVISED is prompted, there will be instruction given to STAND CLEAR. This will also be shown with red LEDs lighting on the following icon.



A charging tone will sound, then a prompt given to deliver SHOCK. Shock delivery is simulated by pressing the SHOCK button.



Once shock is delivered the scenario prompts BEGIN CPR.

Once CPR is started there are 2 minutes within which to practice cycles of compressions and ventilations in the recommended 30:2 ratio. Rate of compressions and number of successful ventilations are shown on the LCD display. Correct hand placement is also shown as in CPR training mode.

Failure to start CPR after shock is delivered will result in a audio warning to begin CPR.

On completion of the 2 minutes of CPR, the AED will again analyze rhythm and state NO SHOCK REQUIRED and the CAROTID PULSE will activate in the Truman model to demonstrate success.

The LCD will display the heart rate and also signal END of scenario.



Airway Management

Truman Multi features the anatomically correct and visually accurate AirSim airway. Truman also features a nasal passage.

The model is designed to allow a variety of airway techniques to be demonstrated.

- Standard & Video Laryngoscopy
- Bag Mask Ventilation
- Use of laryngeal masks and other supraglottic devices
- Naso-tracheal intubation
- Awake fiberoptic examination

The novel neck design allows for a greater degree of flexion and extension with the ability for the head to be set in “neutral” or “sniffing” position. The jaw design is particularly suited to effective training on jaw thrust.

The airway and nasal passage are sealed to the face, this provides an airtight seal and can therefore correct placement of bag/mask, laryngeal masks, endo-tracheal tubes and other supraglottic devices can be demonstrated.

Successful ventilation can be observed visually through chest rise and fall and also on the ventilation LED scale.

The tongue can also be inflated, using a syringe, to demonstrate oedema or anaphylactic reactions.

Mouth to mouth ventilation is NOT recommended on Truman as the airway and lungs are not replaceable.

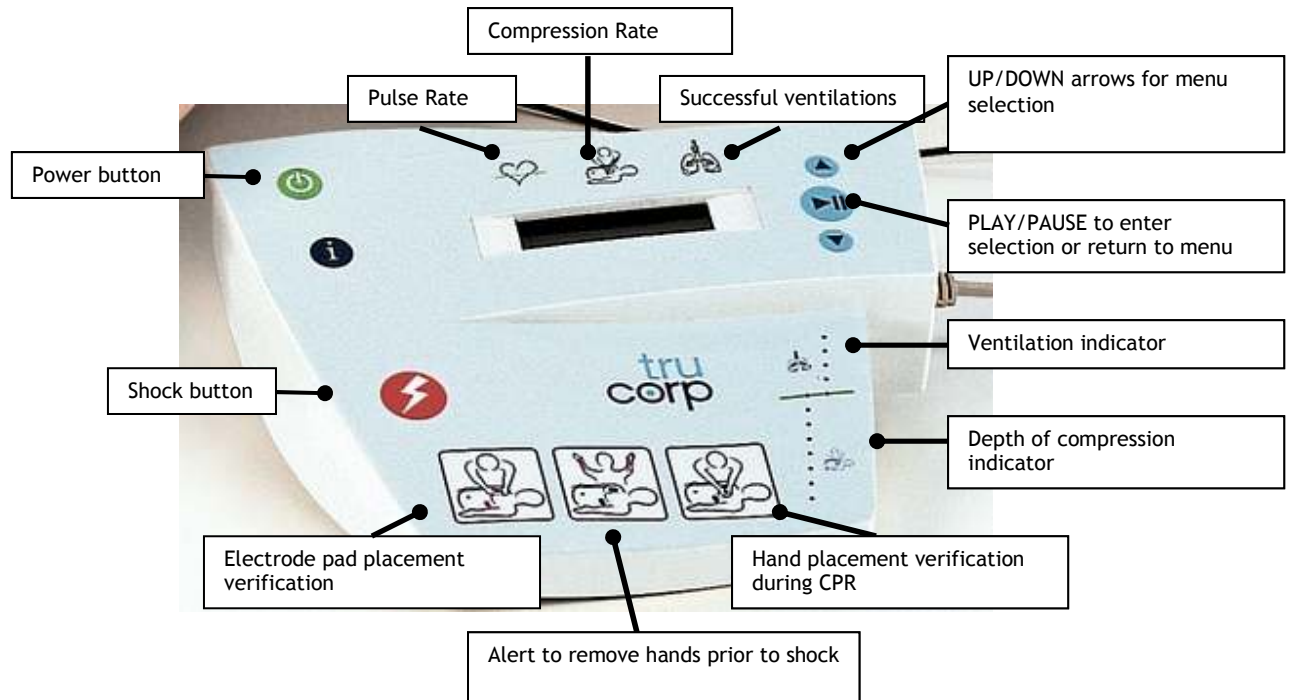
Recommended equipment sizes

7.0 - 7.5mm ID for nasal intubation

8.0 - 9.0mm ID for oral intubation

Size 3 & 4 for LMA laryngeal masks or equivalent for other manufacturers

Details of Controller Module



Power Supply Details

Power Supply and Connection Lead provided in shipment

I/P: AC 100-240V 50/60Hz 1.2A

O/P: DC 15V 3A

CE and UL Compliant

Accessories/Spare Parts

Truman is designed as an enclosed unit, so spare parts are not required. It is recommended that the Truman torso is not opened.

The following accessories can be ordered through distributor or directly from Trucorp.

AEDPADS - Pack of 10 (5 sets)

AEDCABLES - Pair

Care & Maintenance

Truman Multi

Care and attention should be given to removing the Truman model and controller module from the carry case.

Truman should be stored in the carry case when not in use, all cables should be removed from model and controller to avoid accidental damage.

Truman skin is made from a durable and very elastic polyurethane material. It can be cleaned using a lightly soaped, damp cloth.

DO NOT USE EXCESS WATER as this may lead to damage to the internal electronics housed in the base of the model.

When using the model, particular care is required with the airway. The airway should be lubricated before use. It is recommended that a water based lubricant is used though standard manikin lubricant is also suitable. DO NOT USE SOLVENT BASED LUBRICANTS, these will rapidly degrade the airway.

Please note mouth to mouth resuscitation training is not recommended on this model as the airway and lungs are not disposable or replaceable.

All products are provided with a full one year warranty on all parts. Should you require any further information on spare parts or require technical support, please contact us directly at Trucorp.

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ROSH AND WEEE DIRECTIVE

The European Union issued Directive 2002/95/EC in February 2003. This directive details the restriction of the use of hazardous substances in Electrical and electronic equipment (RoHS). Also issued in February 2003 was the directive 2002/96/EC which covers Waste Electrical and Electronic Equipment (WEEE).

The WEEE Directive dictates that by 13th August 2005 all producers will coordinate and finance the collection, treatment, recycling, recovery and disposal of all Electrical or Electronic equipment at the end of life.

The RoSH Directive 2002/95/EC complements the WEEE directive. It requires that the use of specific heavy metals and brominated flame retardants are banned. This is to reduce the environmental impact of landfilled or incinerated WEEE. The directive states that by 1st July 2006, electrical and electronic equipment “producers” must abolish the use of ALL lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) in electrical and electronic equipment sold with in the European Union (EU). “Producers” can be defined as “any person(s) who...(i) Manufactures and sells electrical and electronic equipment under his own brand, (ii) Resells under his own brand equipment produced by other suppliers...(iii) Imports or exports electrical and electronic equipment on a professional basis into a member state”

OUR COMMITMENT

WEEE Directive

TruCorp Ltd is committed to meeting the requirements of the WEEE directive. The WEEE directive has been implemented differently in each of the EU member states through national legislation. TruCorp Ltd will register as the National “Producer” for its product and report routine sales and recovery in accordance with UK local requirements. TruCorp Ltd will work with importers and distributors in each country affected by the WEEE legislation, to ensure that there are valid registrations in place.

All TruCorp Ltd products which are subject to the WEEE directive will display the “crossed out wheelie bin” WEEE symbol below in accordance with European Standard EN50419.



We verify that treatment and recycling of WEEE done on behalf of TruCorp Ltd, will be carried out in accordance with the WEEE directive, as set out in the implementing legislation of member states.

ROHS DIRECTIVE

The parts and materials used in TruCorp Ltd’s electrical and electronic products are procured from external supplier. We specify that all parts and materials supplied to us should be RoSH compliant. Our suppliers document this compliance by issuing a formal Certificate of Compliance (CoC). This document confirms the absence if restricted materials in the products that they supply to TruCorp Ltd.

TruCorp Ltd will continue to work closely with our external suppliers to ensure that our products fully comply with legal and environmental requirements as laid out in the RoHS and WEEE Directive.

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