

# 3Shape TRIOS 4

## Safety and Setup Guide

Intraoral 3D scans



Models S3P-2, S3P-8, S3A-10, S3A-14, S3A-18, S3A-22

July 2019

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## 1. Dear Customer

Thank you for purchasing your TRIOS® from 3Shape TRIOS A/S.

The TRIOS system enables you to perform and digitally save oral scans of patient's teeth for use in dental CAD/CAM systems.

This TRIOS safety and setup guide describes safety precautions, warnings, and considerations related to your TRIOS system.

For step-by-step instructions regarding configuration and operation of TRIOS, please refer to the online help.

Before assembling or using TRIOS, please carefully read and follow the instructions in this safety and setup guide and in the online help system. Please always keep this safety and setup guide near the system.

Please observe all safety information and warnings to prevent personal injury, material damage or damage to your TRIOS system.

Thank you,  
3Shape TRIOS A/S

## 2. Conformity

This guide is published by 3Shape TRIOS A/S, who reserves the right to improve and modify the contents without prior notice. Modifications will, however, be published in future editions. All rights reserved.


TRIOS is a trademark of 3Shape TRIOS A/S.

Products manufactured by 3Shape TRIOS A/S, Holmens Kanal 7, 1060 Copenhagen K, Denmark.

### Declaration of Conformity (EU):





3Shape TRIOS A/S hereby declares that the TRIOS observes the provisions of: MDD 93/42/EEC with amendments until Directive 2007/47/EEC, 2011/65/EEC RoHS Directive, 2005/20/EEC Packaging and Packaging Waste Directive and 2002/96/EEC Waste electrical and electronic equipment (WEEE), and is in compliance with the following standards: EN (IEC) 60601-1, EN (IEC) 60601-1-2, EN (IEC) 60601-1-6, EN (IEC) 62366, EN (IEC) 62471.

## 3. General Information









	<p><b>CAUTION</b> <b>Be sure to observe all warnings!</b></p> <p>Please observe all safety information and warnings to prevent personal injury, material damage or damage to your TRIOS system. Safety information and warnings are highlighted in this guide using the words <b>WARNING</b>, <b>CAUTION</b> or <b>NOTICE</b>.</p>
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### 3.1 About this Document – Symbols

The symbols used in this document imply the following:

	<p><b>WARNING</b></p> <p>Warnings regarding situations where a medium risk of injury to persons exists if the information is not observed.</p>
	<p><b>CAUTION</b></p> <p>Safety information where hazards such as slight risk of injury to persons, risk of property damage or damage to the system exist if the information is not observed.</p>
	<p><b>IMPORTANT NOTICE</b></p> <p>Important information that is not a warning/caution but must be strictly observed.</p>
	<p><b>TIPS</b></p> <p>Hints, tips, additional information to support optimal operation of the system.</p>

### 3.2 Legend of Labels and symbols

	Year of manufacture (EN/ISO 15223-1)
	Company and address (EN/ISO 15223-1)
	General warning – caution (ISO 7010-W001, black on yellow)
	Type BF equipment (IEC 60417-5333)
	WEEE Product disposal symbol (Directive 2002/96/EC)
	Caution (ISO 7000-0434A)
	CE marking
	Lot number



	Serial Number (EN/ISO 15223-1)
	Consult instructions for use (EN/ISO 15223-1)
	AC (IEC 60417-5032)
	Protective Earth (IEC 60417-5019)
	Warning – dangerous voltage (IEC 60878) (ISO 3864-B3.6, black on yellow)
	Expiry Date (EN/ISO 15223-1)
	Standby (IECS009)
	Pushing prohibited (ISO 7010-P017, black and red)
LAN	Local area network, Ethernet connector (RJ45)
	Refer to instruction manual / booklet (ISO 7010-M002, blue)
Scanner 	Connection point for handheld scanner; the scanner has a type BF applied part
	Identifies the protection tip
	Warning following IEC 62471-2 (black on yellow): Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eyes. The present system is in risk group 2
	The calibration patches must not be touched and must not be exposed to liquids
	Mass of the TRIOS System, incl. safe working load (in kilograms)
	The product contains an RF transmitter
	RFID tag
	Electrical insulation Class II (ICE 60417-5172)

## 4. Description of TRIOS

### 4.1 Certification and Compliance Notes

#### CE Mark




This product bears the CE mark in accordance with the provisions of Council Directive 93/42/EEC of June 14, 1993 concerning medical devices with amendments until 2007/47/EC, 2011/65/EEC RoHS Directive, 2005/20/EEC Packaging and Packaging Waste Directive, and 2002/96/EEC Waste electrical and electronic equipment (WEEE).

	<b>CAUTION – EU only</b> <b>CE mark for connected products</b>  Further products which are connected to this unit must also bear the CE mark.
	<b>IMPORTANT NOTICE</b>  To comply with the CE mark of the integrated wireless module, the wireless scanner must only be used indoors.

#### Compliance

This system has been tested to conform with the EN (IEC) 60601-1 Safety Standard for medical electrical devices with Patient applied part (the standard title is: Medical electrical equipment – Part 1: General requirements for basic safety and essential performance), EN (IEC) 60601-1-2 Electromagnetic compatibility – Requirements and tests, and EN (IEC) 62471 Photobiological safety of lamps.

The system has also been tested to conform with CAN/CSA-C22.2 NO 60601-1 (2008) and ANSI/AAMI ES60601-1 (2005).

	<b>WARNING</b>  Any person who assembles or modifies a medical electrical equipment or system complying with the standard EN (IEC) 60601-1 (safety requirements for medical electrical equipment) by combining it with other equipment is responsible for conducting appropriate inspection and testing to ensure continued safe use of the equipment and for ensuring that the requirements of this regulation are met to their full extent for the safety of the patients, the operators and the environment.
	<b>WARNING</b>  Use of the UNIT adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, the UNIT and the other equipment should be observed to ensure normal operation in the used configuration.
	<b>WARNING</b>  The product needs special precautions regarding EMG and needs to be installed and put into service according to the EMC information provided in the TRIOS Technical Data.



#### IMPORTANT NOTICE

The system is to be used in a Professional Healthcare Environment.

## 4.2 Intended Use

The 3Shape TRIOS® intraoral scanner (IOS) system is intended to obtain 3D digital images of the topographical characteristics of teeth (including gingivae and palate) directly from the patient's mouth or models of the teeth.



#### CAUTION

Unintended use of the TRIOS system can result in physical injury to patients, operators and damage the system.

## 4.3 Users of TRIOS

The 3Shape TRIOS intraoral scanner system is to be operated by legally qualified healthcare professionals in dental clinics or dental laboratories. Using the TRIOS system for any purpose other than the "intended use" described above may damage the TRIOS system and harm operators and patients. Proper use of the TRIOS system includes following the operation and maintenance instructions, and observing warnings and caution descriptions in this user guide.



#### WARNING Carefully follow the instructions in this guide

If the instructions for operating the TRIOS system as described in this guide are NOT observed, the intended protection and safety of the user and patient may be impaired.

## 4.4 Contra-indications

None

## 4.5 Patient Target Group

No restrictions in patient population

## 4.6 System Description

#### The system is available in these variants:

Regional variation can occur regarding the contents of the systems.

<b>S3A-10</b>	<b>Pen grip scanner, supplied with a MOVE® cart with built-in PC, and a TRIOS 4 cord</b>
<b>S3A-14</b>	<b>Pen grip scanner, supplied with a MOVE cart with built-in PC, 3 scanner batteries, and a scanner battery charger</b>
<b>S3P-2</b>	<b>Pen grip scanner, supplied with a pod (holder), 3 scanner batteries, and a scanner battery charger</b>

<b>S3P-8</b>	<b>Pen grip scanner, supplied with a pod (holder) that is connected to an external PC via an Ethernet cable, and a TRIOS 4 cord</b>
<b>S3A-18</b>	<b>Pen grip scanner, supplied with a MOVE+ cart with built-in PC, and a TRIOS 4 cord</b>
<b>S3A-22</b>	<b>Pen grip scanner, supplied with a MOVE+ cart with built-in PC, 3 scanner batteries, and a scanner battery charger</b>

You can find the figures in the final section of this guide.

All system variants are comprised:

- **Handheld TRIOS intraoral scanner, S3-2** (S1 and S2): Wired and wireless handheld dental intraoral scanner for scanning the surface of the patient's teeth.
- **TRIOS 4 Tip, TST-01** (S3): Re-usable scanner tip attached to the handheld TRIOS Scanner.

The scanner tip as well as the protection tip (S4) can be attached by the following procedure:

1. Place the tip over the front tube with the mirror facing upwards or downwards.
2. Twist the tip until a firm mechanical click is felt.

The tip is removed doing the opposite procedure:

1. Twist the tip away from the center of the scanner.
2. Pull the tip away from the scanner body (S4).

The label on the protection tip indicates the attaching/removing movement (S4). When the tip is detached, the scanner's optical window (S3) is visible.

The TRIOS 4 tip contains a mirror and electronics. A set of scanner tips is delivered with the scanner. The scanner tip is the only applied part.

- **Protection Tip, TST-03** (S4): Protects the optical window of the scanner from damage and dirt when the scanner is not in use.
- **Color Calibration Kit, TST-02** (S5): Used for calibrating TRIOS scanners. The kit consists of the color calibration target (S6), the sleeve (S7), and the color calibration adaptor (S8).
- **TRIOS software:** Scan application/user interface for the scanner.
- **Power (mains) cable and plug:** The system is delivered with a cable appropriate for your location. In the USA and Canada, this is a Nema 5-15P Hospital Grade mains power cord with plug for the MOVE cart. For the charger a C7 connector is used.
- **A set of batteries for the scanner, TB-03 and TB-02** (S9)
- **A battery charger, C3BP, with wall mount** (S10)

#### For systems S3A-10, S3P-8

- **TRIOS 4 cord, TSC-01** (Figure S11): The wired systems are delivered with a cord, which is inserted in the scanner by pressing the button as shown in (S2). The blue light indicates a connection to either the Pod or the MOVE cart. The green light indicates a connection to the scanner.

## System S3A furthermore comprises:

### MOVE Cart C4.0 or MOVE+ Cart C4.1 (Figure 2),

in this guide all information given by MOVE Cart applies for both MOVE and MOVE+ Cart:

- Cart for intraoral digital impression system.
- Has an adjustable monitor (S12, S13, S14).
- Has a **scanner mount** (S15) for holding the scanner while not in use.
- Has **wheels** for mobility (and brakes (S16) if mobility is not desired).
- **Computer Unit.** Attached to the MOVE cart for processing, storage and running the TRIOS software.
- **Touch screen:** Touch-enabled screen for real-time display of scanning results generated by the TRIOS software, and for interacting with the TRIOS software.
- The **system standby button** (S17) is on the back of the monitor.
- In the bottom (S18), there is a power socket (S19), a network (LAN) connector (S20), and a fuse drawer (S21). In the top of the backpack (Figure 7), the dongles are inserted, see description below.
- USB wireless dongle (allows communication between scanner and computer or cart)
- USB license dongle (access to 3Shape Software)
- USB wifi dongle (for connecting cart to wifi network)
- Bluetooth dongle (for connecting the cart to bluetooth devices as keyboard and mouse, graphical variations may occur)
- The friction of the arm of the MOVE cart that holds the scanner and the display can be adjusted. The corresponding tool is provided with the system. (Figure 8)
- **USB port:** The MOVE+ has a USB port (S29).

**Step 1:** Move the arm to the top-most position.

**Step 2:** Insert the tool into the hole on the bottom side of the arm, located approx. half way along the arm.

**Step 3:** Turn the tool clockwise to increase friction, anticlockwise to reduce friction.

**Step 4:** Adjust friction so that the monitor is steady (does not sink, does not go up) in the following scenarios:

- Scanner is positioned in scanner holder
- Scanner is not positioned in scanner holder



### IMPORTANT NOTICE

Maximum current available for the USB port is 200 mA.

## System S3P furthermore comprises:

### Pod, PS3-4 (Figure 3):

- A mount for the scanner (S22)
- A USB wireless dongle for the PC (S23)
- A USB license dongle
- A bluetooth dongle
- A USB wifi dongle

### Pod with electronics, PS3-2 (Figure 4):

- A mount for the scanner
- Several connection sockets. On one side, there is a single socket for the scanner. On the other side, there are two connection sockets

for the Ethernet cable to the PC and for the external medical power supply, respectively.

- A USB license dongle

## 4.7 Setting up TRIOS

It is recommended that unpacking, assembly and connection of the TRIOS System be performed by TRIOS authorized technical service personnel.

It is recommended to fully charge batteries for the scanner before use.

	<b>CAUTION</b> If the system has just been delivered from a cold environment, let it adjust to room temperature to avoid internal condensation and to allow for proper calibration.
	<b>CAUTION</b> Examine all parts of the system. Look for physical damage, loose parts or signs of wear that could interfere with proper use and functionality. Contact your service provider if there is visible damage or malfunctioning.

## System S3A (MOVE cart) only

### Please follow the steps below for assembling TRIOS (Figure 5):

**Step 1:** Place the MOVE cart optimally in relation to the patient chair and your work position. (S24)

**Step 2:** Attach the protection tip to the TRIOS scanner if not already in place. (S25)

**Step 3:** Insert a battery fully into the rear of the scanner (S26)  
or Insert the TRIOS 4 cord into rear of scanner (S27) and connect the LAN cable to the MOVE cart's LAN connection at the backside of the MOVE cart. (S28)

**Step 4:** Place the scanner in its designated scanner holder on the MOVE cart (Figure 2, S15).

**Step 5:** Connect the MOVE cart end of the power cable to the socket in the bottom of the MOVE cart's base. (Figure 2, S19)

**Step 6:** Connect the power cable to a grounded power outlet. Ensure that the MOVE cart is placed so it does not block the switch on the mains socket outlet. To isolate the MOVE cart and thus the scanner from supply mains, unplug the flexible power cord from mains.

## System S3P (Pod) only

### Please follow the steps below for assembling TRIOS (Figure 6):

**Before you start:** Place the pod on a flat and horizontal surface optimally in relation to the patient chair and your work position. Attach the protection tip to the TRIOS scanner if not already in place. For the wired scanner, we recommend not to place the scanner onto the pod at this time yet, so that it is easier to lift the pod while connecting cables in the following.

For the wired scanner (for the wireless scanner, begin with **step 6**)

**Step 1:** Connect the Ethernet cable to the pod.  
The cable goes into the left connection socket on the back side of the pod (the side that has two connection sockets). If you need to release the Ethernet cable, press on the small tab on the top of the connector.

**Step 2:** Connect the power supply to the pod.  
This cable goes into the connection socket next to the Ethernet cable described in the previous step.

- To connect - push the plug into socket. There are red orientation dots on the socket and the plug that should match.
- To disconnect - pull on the outer release sleeve.

The indicator light will light green.

**Step 3:** Connect the TRIOS® 4 cord to the scanner connection socket on the front side of the pod (the side that has only one connection socket).

- To connect - push the plug into the socket. There is a red orientation dot on the plug that should point upwards.
- To disconnect - pull on the outer release sleeve.

Now all connections to the pod are established, and you can place the scanner onto the pod.

**Step 4:** Connect the other end of the Ethernet cable to the PC (if no Ethernet ports are available in the PC, use an Ethernet-to-USB adapter).

**Step 5:** Connect the power (mains) cord to the power supply. The other end of the power (mains) cable goes into a grounded power outlet (not shown in the Figure). To isolate the pod and thus the scanner from supply mains, unplug the power cord from mains.

**Step 6:** Insert a battery fully into the rear of the scanner. (Figure 5, S26) or Insert the TRIOS 4 cord into rear of scanner (Figure 5, S27)

**Step 7:** Place the scanner in the pod.

#### Scanner Battery Charging (Figure 1, S9 and S10):

**Before you start:** Place the battery charger either on a flat surface horizontally or attach it to the wall mount vertically, with battery containers pointing upwards. Follow the instructions accompanied with the charger for attaching the wall mount.

**Step 1:** Attach the power cord and plug it to mains power.

**Step 2:** Push the batteries one by one into the charger until they click into place. When charging, the LED above each battery will indicate the status:

- A pulsating green means that charging is ongoing;
- Constant green means that the charging is completed;
- Yellow means that an error has occurred, either the battery is not inserted correctly, or the charging is outside operating conditions for temperature.



#### CAUTION

If the charger continues to indicate yellow, the battery is damaged and should be discarded, unless the battery is too hot or too cold (see section 4.8).

## 4.8 Starting and Shutting Down TRIOS

**Please follow the steps below to start TRIOS for the first time:**

**Step 1:** Turn the system ON.

S3A: Press the standby button on the top of the backside of the display. The TRIOS software starts automatically.

S3P: Start the PC. If the PC has no TRIOS software installed, follow the instructions in the accompanying TRIOS online help. Then start the TRIOS software.

**Step 2:** Log on using a default TRIOS Operator.

**Step 3:** Configure and use your TRIOS system.

#### For models S3P-8, S3A-10

The wired scanner turns on automatically when the MOVE® cart is turned on, or when the smart cord is plugged into the scanner. The scanner automatically turns off after 10 minutes of no use.

#### For models S3P-2, S3A-14

To activate the wireless scanner, press the button on the top of the scanner when the MOVE cart or computer is turned on. The scanner can be turned off manually by removing the battery.

Follow on-screen instructions for connecting to the wireless scanner.

When using the TRIOS system, the user is guided by messages shown in the TRIOS software. This includes when calibration of the scanner is due. Other messages include a reminder to mount the calibration adapter: "Please make sure the scanning tip is mounted on the scanner."

### Calibration

A calibration of the handheld TRIOS scanner is required before using TRIOS for the first time, or to compensate for thermal variation and aging effects due to wear. During regular use the TRIOS software will prompt the user when calibration is due. To perform the calibration, attach a cleaned and sterilized or high-level disinfected scanner tip on the scanner tube.

Remove the sleeve from the calibration target.

Mount the calibration target on the calibration adaptor with the grey side, marked with the letter B, facing up.

Attach the calibration adaptor to the cleaned and sterilized or high-level disinfected scanner tip. Go to the Configure page in the TRIOS software, select TRIOS → Scanner Management → 3D calibrate scanner, and then follow the on-screen instructions. Remember to save changes when prompted.

For a more detailed description of the 3D calibration, please refer to the TRIOS online help.

#### Color Calibration

A color calibration of the handheld scanner is required before each scan in order to get optimal colors.

Attach a cleaned and sterilized or high-level disinfected scanner tip on the scanner tube.

Remove the sleeve from the color calibration target.

Mount the color calibration target to the calibration adaptor with the color side, marked with the letter A, facing up.


Attach the calibration adaptor to the cleaned and sterilized or high-level disinfected scanner tip.

Go to the Configure page in the TRIOS software, select TRIOS—Scanner Management — Color calibrate scanner, and then follow the on-screen instructions, which will also include validation of the performed color calibration. Remember to save changes when prompted.


For a more detailed description of the color calibration, please refer to the TRIOS online help.

#### Proper shutdown

Inside the TRIOS software, click on the Power button and select Shutdown or press the the standby button on the back of the monitor on the MOVE cart. System S3A (MOVE cart) only: The light under the standby button turns off to confirm that the system is shut down.

	<p><b>CAUTION</b></p> <p>When switching off the system, allow enough time for it to shut down properly before disconnecting the mains cable.</p>
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#### System S3A (MOVE cart) only

	<p><b>IMPORTANT NOTICE</b></p> <p>The standby button can also be used to force TRIOS to shut down in case the screen stops responding. To force a shutdown, push and hold the standby button pressed for about 5 seconds. Then, restart the system.</p>
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### 4.9 Starting TRIOS Online Help

The TRIOS online help can be started from the TRIOS software by clicking on the Help button and choosing User Manual.

### 4.10 TRIOS System Environment

	<p><b>Operating Conditions</b></p> <p>Ambient temperature range: +15 – +30 °C</p> <p>Relative humidity: 10 – 85 % (non-condensing)</p> <p>Atmospheric pressure: 800 – 1100 hPa</p> <p>The scanner should be used in an environment maintaining a consistent room temperature.</p>
	<p><b>Storage Conditions</b></p> <p>Ambient temperature range: -10 – +60 °C</p> <p>Relative humidity: 10 – 85 % (non-condensing)</p> <p>Atmospheric pressure: 800 – 1100 hPa</p>
	<p><b>Transport Conditions</b></p> <p>Ambient temperature range: -10 – +60 °C</p> <p>Relative humidity: 10 – 85 % (Non-condensing)</p> <p>Atmospheric pressure: 620 – 1200 hPa</p>


### 4.11 Technical specifications

<b>Light source specifications</b>	Do not view directly with optical instruments, such as spectacle microscopes. The product complies with EN (IEC) 62471 (Photobiological safety of lamps and lamp systems and UL-standard US code of federal regulations, 21 CF 1040.10 and 1040.11.
<b>Sterilization and high-level disinfection method</b>	Scanner tips can be autoclaved or high-level disinfected.
<b>Power input</b>	<p><b>S3A MOVE cart</b> Power input: 100-240 VAC, 50/60 Hz, 180 VA max Insulation class: class I</p> <p><b>C3BP: Battery charger</b> Power input: 100-240 V, ~0.7-0.3A, 50/60 Hz Protection class: IP20 Insulation class: Class II</p> <p><b>S3-2 scanners.</b> Wireless, battery powered</p> <p><b>S3-2 scanners.</b> Wired, TRIOS 4 cord</p> <p><b>S3P-8:</b> external medical-grade power supply, rated 30 W max Power input: 100-240 V, 0.7- 0.4 A, 50/60 Hz Insulation class: Class I</p> <p><b>3Shape TB-02</b> Standard Battery: 3,6 V, 2000 mAh, 7 Wh</p> <p><b>3Shape TB-03</b> High Capacity Battery: 3.6 V, 3450 mAh, 12 Wh</p>
<b>Wireless Module</b>	The scanner contains an IEEE 802.11AC module, FCC ID: PD98265NG
<b>Wireless Transmit Power</b>	Maximum 100 mW
<b>Wireless Frequency Band</b>	2.401-2.483 GHz 5.15-5.725 GHz (the actual frequencies are dependent on local regulations and the configuration of the product.)




## 5. Safety and Warnings


### 5.1 Prerequisites

	<p><b>CAUTION</b></p> <p>Read all instructions carefully, including all warnings and caution notices. You must comply with the warnings in this manual to prevent injury to persons and damage to equipment. Proper functionality and safety can only be guaranteed if the safety precautions in this safety guide and on the TRIOS® system are observed.</p>
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#### Country dependent feature

	<p><b>CAUTION</b></p> <p>In fluorescence scanning mode:</p> <ul style="list-style-type: none"><li>• Limit exposure of the oral mucosa</li><li>• Limit scanning time to 15 seconds per tooth</li><li>• Take appropriate measures for eye protection</li><li>• Only run the scanner in fluorescence mode while it is in the patient's mouth</li><li>• Do not direct the blue light emitted by the scanner towards the eyes of the patient or operator</li><li>• Consider using eyewear that blocks blue light</li><li>• Consider viewing the computer screen while scanning instead of the mouth of the patient</li></ul>
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#### Preventive inspection before use of the system

	<p><b>CAUTION</b></p> <p>Please examine the TRIOS system for any mechanical damage on:</p> <ul style="list-style-type: none"><li>• all enclosures,</li><li>• all cables.</li></ul> <p>Safety can only be guaranteed if NO DAMAGE on the TRIOS system is observed.</p>
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#### Modifications of the system

	<p><b>CAUTION</b></p> <p>Modifications of the system which may affect the safety of the operator, patients or third parties are prohibited by law!</p>
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#### Approved software only

	<p><b>CAUTION</b></p> <p>Install only approved software – to prevent interference with the runtime reliability of the system and programs within it.</p>
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#### Proper training

	<p><b>WARNING</b></p> <p>Before you attempt to use the TRIOS scanner equipment with patients:</p> <ul style="list-style-type: none"><li>• You must be trained to use the system and have read and understood all sections of this guide describing correct operation.</li><li>• You must also be thoroughly familiar with the safe operation of the TRIOS scanner equipment as described in this documentation.</li></ul>
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#### In case of equipment failure




	<p><b>WARNING</b></p> <p>If at any time the TRIOS system malfunctions, or if you suspect in any way that the TRIOS system is not working correctly:</p> <ul style="list-style-type: none"><li>• Remove the scanner from contact with the patient.</li><li>• Unplug the system and make sure it cannot be used before it is checked.</li><li>• Contact your reseller.</li><li>• Do not attempt to open any covers on the TRIOS system.</li></ul>
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#### Portable RF communications equipment

	<p><b>WARNING</b></p> <p>Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the MOVE cart system, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.</p>
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#### Wireless Connection

The wireless scanner is intended to be used indoors, in a domestic or commercial electromagnetic environment.





	<p><b>CAUTION</b></p> <p>Other portable and mobile RF communication equipment could interfere with the wireless scanner, even if the other equipment complies with CISPR emission requirements.</p>
	<p><b>CAUTION</b></p> <p>The wireless scanner could interfere with other portable and mobile RF communication equipment.</p>
	<p><b>CAUTION</b></p> <p>It is recommended to keep a line of sight between the wireless scanner and the USB wireless dongle attached to the PC.</p>

## 5.2 Mechanical Hazards


### Fragile and movable parts

	<p><b>WARNING</b></p> <p>Be careful to avoid the following potential sources of injury:</p> <ul style="list-style-type: none"> <li>• Do not lean or sit on any part of the system.</li> <li>• Movable parts can pinch body parts.</li> </ul>
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### Dropped or damaged equipment

	<p><b>WARNING</b></p> <p>If you drop a scanner tip on the floor, you <b>MUST</b> dispose of it immediately and <b>NOT</b> use the same tip again for scanning. There is risk that the mirror in the tip has become dislodged and can fall out.</p>
	<p><b>WARNING</b></p> <p>If the handheld scanner is dropped or bumped, it should immediately be calibrated before further use. If calibration fails, please contact your technical service provider. See this guide's instructions on calibrating the handheld scanner.</p>
	<p><b>WARNING</b></p> <p>If the handheld scanner is dropped, examine the TRIOS system for any mechanical damage. If a mechanical damage is observed or suspected, treat this as an equipment failure (see this guide's instructions on handling equipment failures).</p>
	<p><b>WARNING</b></p> <p>If a battery is dropped, examine it for any mechanical damage. If a mechanical damage is observed or suspected, the battery must be disposed of in the correct manner.</p>

### System S3A (MOVE® cart) only


	<p><b>WARNING</b></p> <ul style="list-style-type: none"> <li>• Keep both hands on the upper part of the MOVE cart when moving it across the floor.</li> <li>• Do not attempt to lift the MOVE cart alone. When moving the system over a door step or other unsmooth surface, get assistance from another person to ensure stability.</li> <li>• When moving the MOVE cart across the floor, maintain all its wheels in contact with the floor and ensure that they are not locked.</li> <li>• Always place the scanner in its intended mount on the MOVE cart when not in use and when moving the MOVE cart.</li> <li>• Keep your feet clear of the MOVE cart's base and wheels when moving the MOVE cart.</li> <li>• Never drag the MOVE cart across any of its cables.</li> <li>• Do not place the MOVE cart on a slope greater than 10 degrees.</li> <li>• Keep sharp objects away from the touch screen.</li> </ul>
--	---

### System S3P (pod) only


	<p><b>WARNING</b></p> <ul style="list-style-type: none"> <li>• Always place the scanner in its intended mount on the pod when not in use.</li> <li>• Do not place the pod on a slope greater than 5 degrees.</li> </ul>
---	---

## 5.3 Explosion Hazards

### Environment


	<p><b>WARNING</b></p> <p>The TRIOS system is not designed to be used in potentially explosive environments, such as in close proximity to flammable liquids or gases, or in oxygen-enriched atmospheres.</p>
---	--

### Distance to the patient with anesthetic


	<p><b>WARNING</b></p> <p>There is a potential explosion hazard if the TRIOS system is operated in the presence of flammable anesthetic.</p>
---	---

## 5.4 Electrical Safety


### Ensure a grounded/earthed connection

	<p><b>WARNING</b></p> <p>To avoid the risk of electric shock, the MOVE cart must only be connected to a supply mains with grounding/protective earth. The MOVE cart is equipped with a three-pin (US: prongs) grounding/earth type plug. If you cannot insert the plug into your outlet, contact your electrician to replace the plug or outlet, to ensure a grounded power connection. Do not try to defeat or ignore the purpose of the grounding-type plug.</p>
---	--

### Electrical shock

	<p><b>WARNING</b></p> <p>There is a risk of electrical shock if you attempt to access the inside of any part of the system. Only authorized and qualified service personnel may access the inside of any part of the system.</p>
---	--

### Do not touch the electrical terminals

	<p><b>WARNING</b></p> <p>The smart cord, the scanner tip, and the scanner tip interface surface on the scanner contain electrical terminals. For electrical safety, and to prevent corrosion and other damages, the electrical terminals must not be touched at any time, including touching electrical contacts and the patient at the same time.</p>
---	--

## Do not use a power strip



### WARNING

Do not connect the MOVE® cart to an ordinary power strip or extension cord, because these may not be secure in relation to grounding. If the ground connection fails, these can cause the following hazards and potential injury:

- The total leakage current for all the connected equipment can exceed the limits specified in EN/IEC 60601-1.
- The impedance of the ground connection could exceed the limits specified in EN/IEC 60601-1.

## Stress on cables



### CAUTION

All externally connected cables (the power cable, network cable, and the smart cord) must never be subjected to pulling stress.

## Spilled liquids



### WARNING

Do not bring liquids, such as beverages, near the TRIOS® system. Do not spill liquids on the TRIOS system.

## Condensation



### WARNING

Variations in temperature or humidity may cause water to condense inside the system, which can cause damage. Always let the system reach room temperature before you plug it into the power source.

If the system has been subject to major temperature or humidity changes, wait till the system has reached room temperature before plugging it into the power source.

If there is visible evidence of condensation, wait at least 8 hours before plugging it into the power source, to ensure that no internal condensation occurs.

## Disconnecting from mains



### WARNING

There is no power ON/OFF switch on the system; therefore, the only reliable means to disconnect the system from mains is to unplug the power cord. Do not position the system so that it is difficult to unplug the power cord. Please allow enough time for the system to shut down properly before disconnecting the power cord.

System S3P (pod) only: You must also disconnect the PC from mains.

## PC connection options and requirements

### System S3P (pod) only



### WARNING

The PC is a standard IT equipment certified to IEC 60950-1 and is located at least 1.5 m away from the patient. If you choose this setup, you must not scan the patient and touch the PC at the same time! You must not touch any peripherals connected with a cable to the PC while scanning a patient. See the PC's instructions for use for further details.

## USB connection options and requirements

### System S3A (MOVE cart) only



### WARNING

Only bus-powered USB devices without external power supply that support USB Full speed mode must be connected to the USB port.

## 5.5 Eye safety



### WARNING

The scanner emits bright light from its tip during operation. The scanner complies with EN (IEC) 62471 (Photobiological safety of lamps and lamp systems). However, we recommend caution when handling the scanner.

A brief glimpse of the light into the eye is not dangerous, but do not stare into the beam or view directly with optical instruments, and do not aim the beam towards other people's eyes. In general, viewing bright light sources (e.g. headlights), which have a high secondary exposure potential due to their blinding effect, may cause temporary reduction in visual acuity and afterimages, leading to irritation, annoyance, visual impairment, and even accidents, depending on the situation.





## 5.6 Hygiene




### WARNING

To maintain a clean work environment and the safety of the patient, wear clean examination gloves when:



- Handling the scanner tip – changing the tip, setting the tip for upper/lower scans or handling the mirror.
- Handling the protection tip.
- Handling the color calibration kit.
- Applying TRIOS for scanning patients.
- Touching the TRIOS system.



	<b>WARNING</b> Always clean the scanner unit and its optical window before attaching the protection tip. Do not allow patient contact with the protection tip.
	<b>WARNING</b> Always have the scanner tip mounted when you insert the scanner into the patient's mouth or when the scanner comes in contact with the patient in any way. Mounting of the scanner tip is always required for maximal electrical safety and due to the risk of contamination.
	<b>WARNING</b> Always have a cleaned and sterilized scanner tip mounted before attaching the color calibration adaptor. Do not allow patient contact with the color calibration kit.
	<b>WARNING</b> Before each patient, you must: <ul style="list-style-type: none"> <li>• disinfect the system,</li> <li>• apply a new sterilized or high-level disinfected tip to the scanner.</li> </ul> See the detailed instruction in the chapter below.

### System S3P (pod) only



	<b>WARNING</b> Before each patient, make sure any PC connected to the system and its peripherals are disinfected. It is recommended to use medical-grade peripherals (e.g., keyboards and mice) that can be disinfected easily.
--	--

### 5.7 Safety when scanning with TRIOS


	<b>CAUTION</b> The handheld scanner is a highly precise optical instrument and must be handled carefully. Do not drop, shake or bump the handheld scanner, as these actions could cause it to break or malfunction. Follow these guidelines: <ul style="list-style-type: none"> <li>• Always return the handheld scanner to its mount when not in use.</li> <li>• Do not submerge the handheld scanner in any liquids.</li> <li>• Do not place the handheld scanner on heated or wet surfaces.</li> <li>• Grip the handheld scanner firmly during scanning and when removing/returning it to its mount.</li> </ul>
	<b>NOTICE</b> The scanner will get warm during use. This is normal but not part of any patient treatment.

	<b>CAUTION</b> The handheld scanner tip is fragile and contains a delicate mirror. To avoid damage to the tip and mirror, take care not to bump the tip onto the patient's teeth or restorations.
	<b>CAUTION</b> When the TRIOS system is used for pediatric patients, please pay extra attention while scanning the patient.

### 5.8 Protection from overheating

	<b>WARNING</b> The handheld scanner may become uncomfortably warm if operated continuously for a prolonged time. In the event that more than 30 minutes of scanning is needed, stop scanning after 30 minutes and allow at least 10 minutes for the scanner to cool before resuming scanning.
	<b>WARNING</b> The ventilation openings in the rear of the handheld scanner must never be blocked or obstructed. If overheated, the scanner may become uncomfortably warm and eventually shut down.

### System S3A (MOVE cart) only

	<b>WARNING</b> Ventilation openings must never be blocked or obstructed. There are openings at the back of the MOVE cart (behind the touch screen) and on the top and the bottom of the base of the MOVE cart. If overheated, the system may stop functioning.
---	---

## 6. Cleaning, Disinfection, and Sterilization

### 6.1 Cleaning, high-level disinfecting, and sterilizing the scanner tip

The TRIOS scanner tip is the part of the scanner that is inserted into the patient's mouth during scanning. The tip can be reused a limited number of times, but it must be cleaned and sterilized, or cleaned and high-level disinfected, between patients to avoid cross contamination.

## Cleaning and sterilization procedure

**Step 1:** Clean the tip manually using soap water and a brush immediately after use. A mild dishwashing detergent or similar is recommended. Inspect the mirror of the tip after cleaning. If the mirror appears with stains, smudged or with a milky haze, repeat cleaning using a soft dish brush and soap water. Rinse with water. Dry the mirror carefully with a paper towel.

**Step 2:** Put the tip in a sterilization pouch

The pouch should be sealed. Use either a self-adhesive or heat-sealed pouch.

**Step 3:** Sterilize the wrapped tip in an autoclave with one of the two programs\*:

- At 134 °C (273.2 °F) for a minimum cycle of 3 minutes.
- At 121 °C (249.8 °F) for a minimum cycle of 15 minutes.

Use an autoclave program that dries the wrapped tip before opening the autoclave.

\*Autoclave times and temperatures will vary depending on the type and manufacturer of the autoclave. Please refer to the user manual of the autoclave manufacturer to verify that the minimum autoclave parameters are met.

## Cleaning and high-level disinfection procedure

**Step 1:** Clean the tip manually using soap water and a brush immediately after use. A mild dishwashing detergent or similar is recommended. Inspect the mirror of the tip after cleaning. If the mirror appears with stains, smudged or with a milky haze, repeat cleaning using a soft dish brush and soap water. Rinse with water. Dry the mirror carefully with a paper towel.

**Step 2:** Disinfect the tip using Wavicide-01 Solution

Immerse the tip completely in Wavicide-01 for 45 to 60 minutes. See also the Wavicide-01 Solution instructions for use.

**Step 3:** Rinse the tip

After immersing the tip in the Wavicide-01 Solution for 45 to 60 minutes, remove the tip and rinse it according to the Wavicide-01 Solution instructions for use.

**Step 4:** Dry the tip

Use a sterile and non-abrasive paper towel or cloth to gently remove remaining drops from the mirror and to dry the tip.



### CAUTION

The mirror in the tip is a delicate optical component. Its clean and undamaged surface is critical for the scan quality. The mirror should be handled with care. Do not scratch it. Be careful not to smudge it before scanning a patient.

	<b>CAUTION</b> Always clean the tip immediately after use. If biological materials (bioburden) are allowed to dry on equipment, disinfection and sterilization processes may not be effective.
	<b>CAUTION</b> Never autoclave a tip that is not wrapped, since this will leave unremovable stains on the mirror. See the autoclave manual for more information.
	<b>CAUTION</b> New tips must be cleaned and sterilized/high-level disinfected before using them for the first time.
	<b>CAUTION</b> A class B Vacuum autoclave according to EN 13060 is required for sterilization of the scanner tip.
	<b>CAUTION</b> The scanner tip can be re-sterilized up to 150 times and must be disposed afterwards as described in section Disposal.
	<b>CAUTION</b> The scanner tip can be high-level disinfected up to 150 times with Wavicide-01 Solution and must be disposed afterwards as described in section Disposal.
	<b>CAUTION</b> When high-level disinfecting the scanner tip using Wavicide-01 Solution, there may be a visual change to the tip after 70 disinfections. This change is only visual and does not pose a risk.
	<b>IMPORTANT NOTICE</b> High-level disinfection with Wavicide-01 Solution as an alternative to sterilization has been validated by 3Shape.  The Wavicide-01 Solution is not allowed and/or recognized as a disinfectant of medical devices worldwide; always follow procedures that have been established for your clinic or institute, as well as any national guidelines.
	<b>IMPORTANT NOTICE</b> Always follow cleaning, disinfection and sterilization procedures that have been established for your clinic or institute, as well as national guidelines.
	<b>IMPORTANT NOTICE</b> If using Wavicide-01 for high-level disinfection, be sure to follow the Wavicide-01 Solution instructions for use.

## 6.2 Cleaning, high-level disinfecting, and sterilizing the calibration kit


The calibration adaptor must always be attached to a cleaned and sterilized, or cleaned and high-level disinfected, scanner tip and must not have contact with patients. If these instructions are not followed, the calibration kit must be cleaned, high-level disinfected and sterilized.

### Cleaning, high-level disinfection and sterilization procedure

<p><b>Step 1:</b> Disassemble the calibration kit (remove the sleeve from the calibration target and separate the calibration target from the calibration adaptor).</p>
<p><b>Step 2:</b> Clean the calibration adaptor manually using soap water and a brush. Sterilize the cleaned calibration adaptor in an autoclave using one of the programs listed for the scanner tip and using a sterilization pouch (see section 6.1 Cleaning, high-level disinfecting, and sterilizing the scanner tip).</p>
<p><b>Step 3:</b> Clean the sleeve manually using soap water and a brush. Disinfect the sleeve using the recommended disinfection solution listed in section 6.3 Cleaning and disinfecting other parts of the system.</p>
<p><b>Step 4:</b> The calibration target must only be cleaned with air. The calibration patches must not be touched and must not be exposed to liquids. See the important notice below.</p>

After cleaning, high-level disinfection, and sterilization, the calibration kit must be reassembled before use.

Ensure that all parts are dry before reassembly. If the kit is not used immediately, place the calibration target in the sleeve and leave the calibration adaptor in the sterilization pouch.

	<p><b>IMPORTANT NOTICE</b></p> <p>The calibration target is a delicate optical component. During disassembly and assembly of the calibration kit only the end-part to the calibration target (opposite of the calibration patches) must be touched, and the target must only be cleaned with air.</p>
--	---

## 6.3 Cleaning and high-level disinfecting other parts of the system

After patient treatment, clean and disinfect all other surfaces of the system (except the scanner tip and the calibration kit, for which the previous sections apply).

Also note that the optical window is a delicate optical component and should be handled with extra care during cleaning and disinfection (see below).







For general cleaning, a soft cloth and a mild detergent can be used.

### Recommended disinfection solution:

Denatured alcohol (IPA – Isopropyl Alcohol or Ethanol) – typically 60-70% Vol.

### To disinfect:

<p><b>Step 1:</b> Apply the disinfection solution to a soft, lint-free, non-abrasive cloth; the cloth must only be damp.</p>
<p><b>Step 2:</b> Wipe the surfaces with the damp cloth.</p>
<p><b>Step 3 (optical window on scanner only):</b> Dry the optical window with another clean, soft, lint-free, non-abrasive cloth.</p>

	<p><b>CAUTION</b></p> <p>The scanner's optical window is a delicate optical component. Its clean and undamaged surface is critical for the scan quality. The window should be handled with care. Make sure it is free from lint, stains, and other kinds of dirt.</p>
	<p><b>CAUTION</b></p> <p>Never submerge the TRIOS® scanner into the cleaning solution.</p>
	<p><b>CAUTION</b></p> <p>Do not use ammonia-based or chloride-based solutions, or acetone on any surface. Before returning the scanner to its holder, ensure both are dry.</p>
	<p><b>CAUTION</b></p> <p>Do not spray directly onto any parts of the system, as the liquid solution can accumulate at the seals and leak into the scanner, monitor, PC, cords, or pod.</p>
	<p><b>NOTICE</b></p> <p>The scanner shell might get yellow-toned over a long period of use.</p>
	<p><b>IMPORTANT NOTICE</b></p> <p>All surfaces that the protection tip comes in contact with, particularly the scanner tube and its optical window, must always be cleaned and disinfected before attaching the protection tip.</p>

## 6.4 Additional cleaning in case of poor scan quality

During scanning, the tip mirror may become unclean, resulting in a loss of scan quality. In this situation, you can clean the mirror following these steps:

<p><b>Step 1:</b> Remove the scanner tip.</p>
<p><b>Step 2:</b> Apply alcohol to a clean cloth or cotton-tipped swab and wipe the tip mirror until it is clean. Use alcohol that is free of impurities, as those may stain the mirror. Ethanol or propanol (ethyl/propyl alcohol) can be used.</p>

**Step 3:** Wipe the tip mirror dry with a dry, lint-free cloth to avoid leaving dust and fiber on the mirror.



**CAUTION**

Do not use acetone or any oxidizing solutions to clean the tip mirror.

If you still see problems, check the scanner's optical window for cleanliness, and apply the same procedure if necessary.

## 7. Disposal

### 7.1 Disposal of the scanner tip

Sterilize the tip as described above.

The scanner tip contains electronics and must therefore be disposed as both electrical and clinical waste. Please contact your 3Shape reseller, who can inform you about the local requirements for disposal of electrical, clinical waste.



**CAUTION**

Dispose the scanner tip as electrical, clinical waste.



**CAUTION**

The scanner tip must be sterilized before disposal.

### 7.2 Disposal of the TRIOS System

For disposal of the TRIOS® System, please contact your 3Shape reseller, who can inform you about the local requirements for disposal of electronic waste.



**CAUTION**

Batteries need to be removed and recycled or disposed of properly. See section 8 Technical Maintenance.

## 8. Technical Maintenance



**CAUTION**

All technical service and repair of the TRIOS System must be performed by 3Shape or 3Shape-authorized personnel only.

The user doesn't need to perform any regular maintenance other than calibration, cleaning, disinfection and sterilization, as described here. Preventive inspections and scheduled maintenance are not required.

Scanner batteries need to be disposed of as lithium-ion batteries. Lithium-ion batteries are recyclable and should be recycled to be properly disposed.

## Battery Replacements

**Scanner Battery  
(S3P-2, S3P-8, S3A-10,  
S3A-14)**

3Shape TB-02 Standard Battery:  
3,6 V, 2000 mAh, 7 Wh

3Shape TB-03 High Capacity Battery:  
3,6 V, 3450 mAh, 12 Wh

## System S3A (MOVE® cart) only

### Changing the fuses (Figure 2, S21):

Shut down the TRIOS MOVE cart by following the procedure described in Setting up & Starting TRIOS for the First Time and disconnect the mains power cable from the TRIOS MOVE cart.



**CAUTION**

The mains power cable must be disconnected before changing fuses.

Using a pair of tweezers or similar, push in the two tabs on each side of the fuse drawer simultaneously, as shown in the picture S21. The drawer will begin to emerge from its slot.

It is then possible to remove the drawer and replace the two fuses. Two spare fuses are provided with the system on delivery.



**WARNING**

Only fuses with the correct rating and type (250 V, T 3.15 A H) must be used.

To replace the fuses, first mount them in the drawer, then insert the drawer back into the slot and push all the way in until the tabs click back into place and the drawer is no longer loose in the slot. Do not attempt to insert the fuses directly into the slot on the MOVE cart.

The mains cable can now be reconnected, and the TRIOS system started up.

### Changing the dongle for the MOVE cart (software license protection; Figure 7):

The USB wireless dongle, the USB license dongle and the USB wifi dongle, and the Bluetooth dongle are located behind the plastic lid on top of the backpack of the MOVE cart. You can remove the lid by opening the screws holding the lid, as indicated by the arrows in Figure 7.



**WARNING**

The scanner must not be operated while the ventilation grid on the back side of the MOVE cart is removed.

## 9. Environmental Considerations

3Shape recognizes our common responsibility for the Earth. Thus, the TRIOS system is designed to conform with the following directives:

- RoHS, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (2002/95/EC);
- WEEE, Waste Electrical and Electronic Equipment Directive (2002/96/EC).

## 10. Consumable Accessories

The consumable accessories to the TRIOS System are the scanner tips, the scanner batteries, and the calibration kit.

When the scanner tips are disposed, new tips can be ordered by contacting your 3Shape reseller. Also, a new calibration kit can be ordered from your 3Shape reseller.

If the system is supplied with batteries, new batteries can be ordered by contacting your 3Shape reseller.

## 11. Vigilance

It is of vital importance that 3Shape is informed immediately of all incidents which have caused, or may have caused/contributed to, a death or serious injury on persons (patients or users/operators) through the use of a 3Shape product.

In such cases please escalate the case to 3Shape Support via email ([support@3shape.com](mailto:support@3shape.com)) or by calling 3Shape's local support team.

## 12. Sponsors

Australian Sponsor  
Emergo (Australia), Level 20, Tower II  
Darling Park, 201 Sussex Street  
Sydney, NSW 2000  
Australia

Tel: +61 2 9006 1662



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## 1. Sehr geehrte Kunden,

vielen Dank, dass Sie sich für TRIOS® von 3Shape TRIOS A/S entschieden haben.

Mit dem TRIOS-System können Sie Intraoralscans von Patienten aufnehmen, digital speichern und in CAD/CAM-Systemen weiterverwenden.

Das vorliegende Sicherheits- und Bedienungshandbuch enthält Sicherheitsvorkehrungen, Warnungen und Hinweise zum TRIOS-System. Die schrittweisen Anleitungen zur Konfiguration und dem

Betrieb Ihres TRIOS-Systems finden Sie in der Online-Hilfe.

Vor der Montage oder der Inbetriebnahme von TRIOS lesen und beachten Sie die Anweisungen in diesem Sicherheits- und Bedienungshandbuch sowie im Online-Hilfesystem. Bewahren Sie dieses Sicherheits- und Bedienungshandbuch immer griffbereit am System auf.

Beachten Sie alle sicherheitsbezogenen Informationen und Warnungen, um Personen- und Materialschäden oder eine Beschädigung des TRIOS-Systems zu vermeiden.

Vielen Dank,  
3Shape TRIOS A/S

## 2. Konformität

Dieses Handbuch wird von 3Shape TRIOS A/S veröffentlicht. 3Shape behält sich das Recht vor, Verbesserung und Änderung des Inhalts ohne vorherige Ankündigung durchzuführen. Änderungen werden jedoch in zukünftigen Ausgaben veröffentlicht.

Alle Rechte vorbehalten.


TRIOS ist eine Handelsmarke von 3Shape TRIOS A/S.

Produkte werden von 3Shape TRIOS A/S, Holmens Kanal 7, 1060 Kopenhagen K, Dänemark hergestellt.

### Konformitätserklärung (EU):

3Shape TRIOS A/S erklärt hiermit, dass das TRIOS-System die folgenden Bestimmungen erfüllt: MDD 93/42/EWG mit Ergänzungen bis Richtlinie 2007/47/EG, RoHS-Richtlinie 2011/65/EU, Richtlinie 2005/20/EG über Verpackungen und Verpackungsabfälle und Richtlinie 2002/96/EG über Elektrik- und Elektronikaltgeräte (WEEE). Darüber hinaus ist es konform mit den folgenden Standards: EN (IEC) 60601-1, EN (IEC) 60601-1-2, EN (IEC) 60601-1-6, EN (IEC) 62366, EN (IEC) 62471.

## 3. Allgemeine Informationen








	<p><b>ACHTUNG</b> <b>Stellen Sie sicher, dass Sie alle Warnungen gelesen haben!</b></p> <p>Beachten Sie alle sicherheitsbezogenen Informationen und Warnungen, um Personen- oder Materialschäden oder eine Beschädigung Ihres TRIOS-Systems zu vermeiden. Sicherheitsbezogene Informationen und Warnungen sind im vorliegenden Handbuch mit den Worten <b>WARNUNG</b>, <b>ACHTUNG</b> oder <b>HINWEIS</b> hervorgehoben.</p>
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### 3.1 Zu diesem Dokument – Symbole

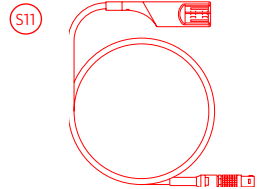
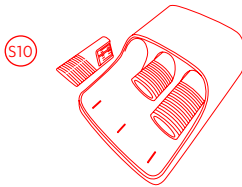
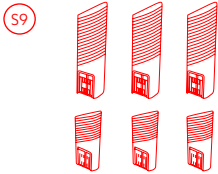
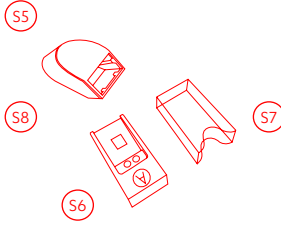
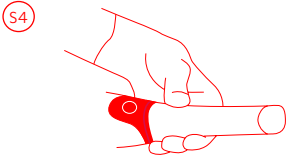
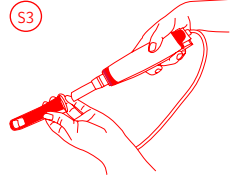
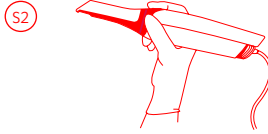
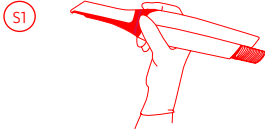
In diesem Handbuch werden folgende Symbole verwendet:

	<p><b>WARNUNG</b></p> <p>Warnungen beziehen sich auf Situationen, in denen ein mittleres Risiko für Personenschäden besteht, falls Hinweise nicht beachtet werden..</p>
	<p><b>ACHTUNG</b></p> <p>Eine Nichtbeachtung der Hinweise birgt eine geringe Gefahr für Personenschäden, die Gefahr von Sachschäden und/oder kann die Beschädigung des Systems zur Folge haben.</p>
	<p><b>WICHTIGER HINWEIS</b></p> <p>Ein wichtiger Hinweis, welcher kein Warn-/Achtungshinweis ist, aber unbedingt befolgt werden muss.</p>
	<p><b>TIPPS</b></p> <p>Hinweise, Tipps, zusätzliche Informationen dienen der Unterstützung des optimalen Betriebs Ihres Systems.</p>

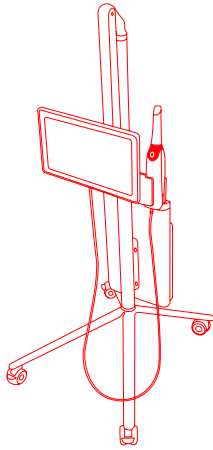
### 3.2 Erläuterung der Aufkleber und Symbole

	Herstellungsjahr (EN/ISO 15223-1)
	Unternehmen und Adresse (EN/ISO 15223-1)
	Allgemeine Warnung – Vorsicht (ISO 7010-W001, schwarz auf gelb)
	Gerätetyp: Typ BF (IEC 60417-5333)
	WEEE-Produktentsorgungssymbol (Richtlinie 2002/96/EG)
	Achtung (ISO 7000-0434A)
	CE-Kennzeichnung

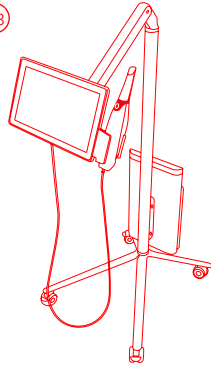
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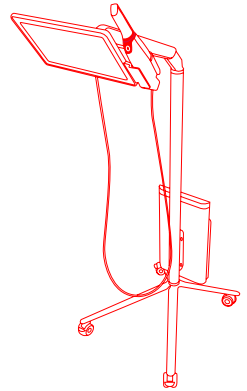
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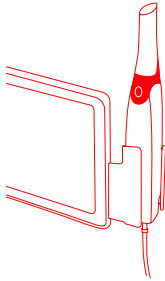
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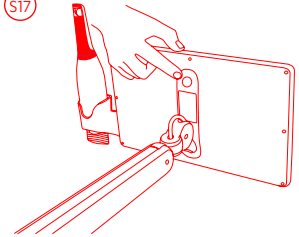
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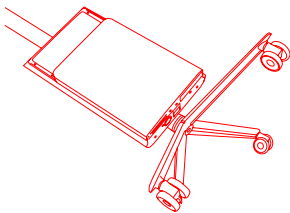
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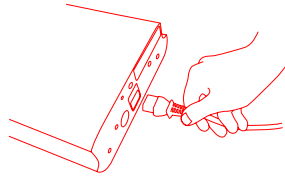
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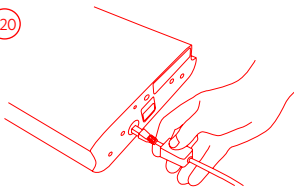
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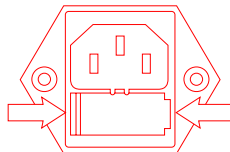
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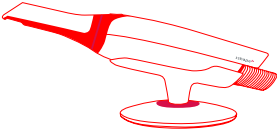


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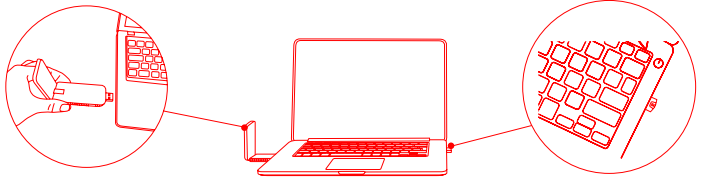


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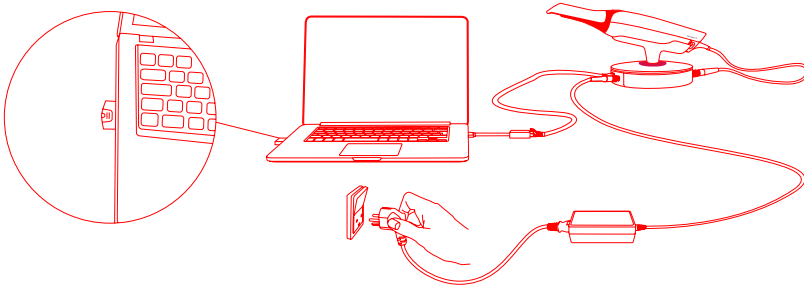
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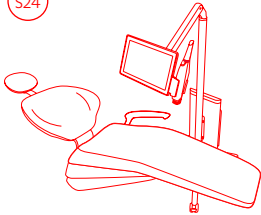


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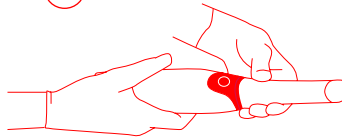


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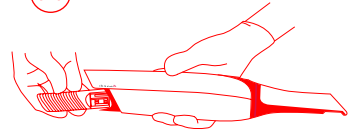
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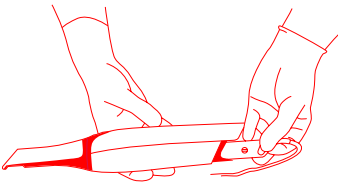
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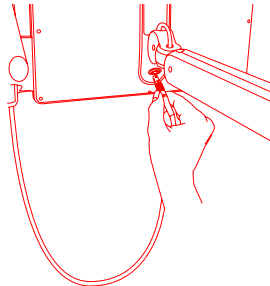
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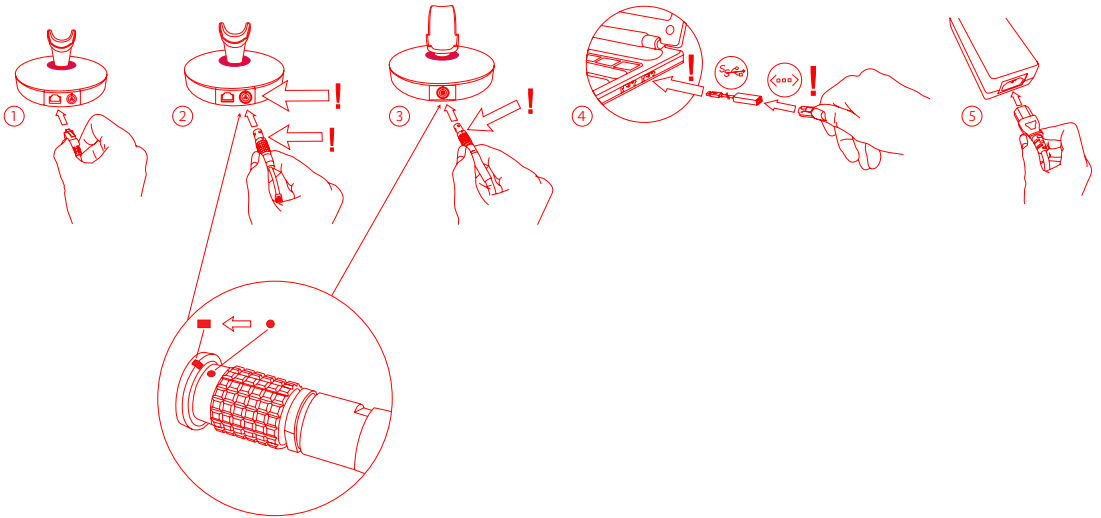
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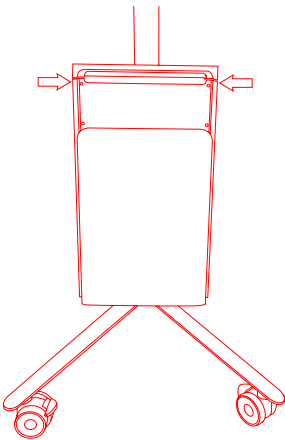
S28



6



7



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