

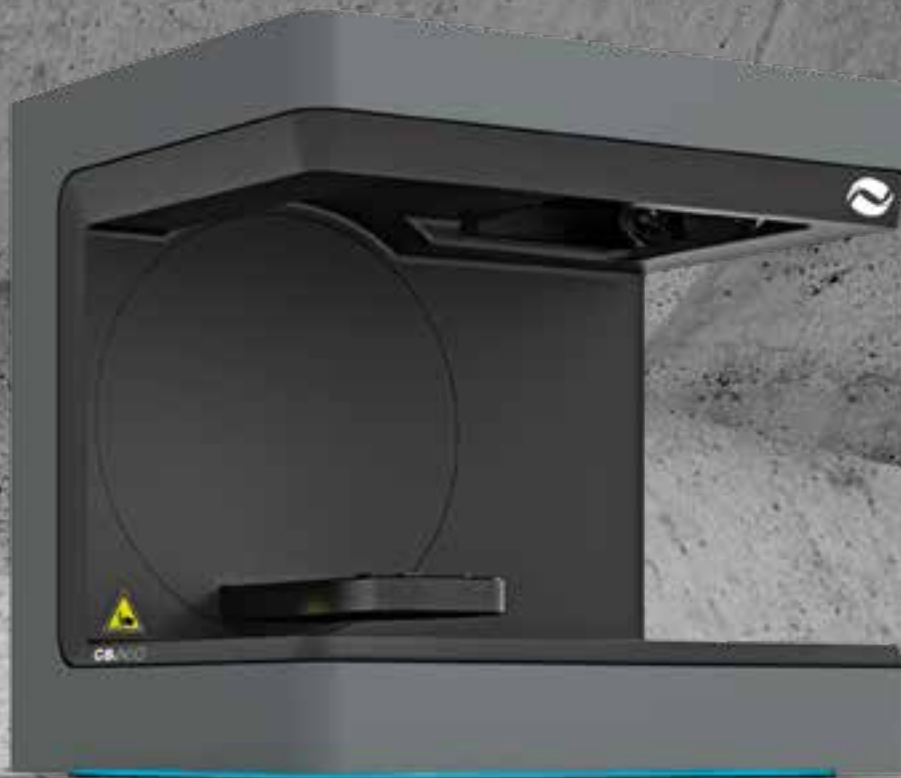


**EASY**  
EXCELLENCE

3D-SCANNERS  
MILLING  
PROSTHETIC PARTS  
ORTHODONTICS

# Technical Documentation

—  
CS.Neo



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# 1. Foreword

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This optical 3D Scanner (hereinafter Scanner) is a product that applies to all safety technical requirements and was developed to the state of the art. Nevertheless, the scanner might endanger persons, if they are not trained or use the scanner in an incorrect way. In chapter 3 „Safety“ and by safety notes in the entire operating instructions we point out possible dangers.

This documentation serves for safe operation on and with the scanner. It contains safety notes which must be observed by any means.

All persons who work on and with the scanner must have the documentation available and observe the information and notes relevant for them.

The documentation must always be in a complete and perfectly readable state.

CADstar Technology GmbH assumes no liability for technical inaccuracies, typographic errors or faults in this documentation, furthermore, no liability for damages, which can be traced back to delivery, performance or use of this documentation, is granted.

## 1.1 Marking

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The scanner is clearly marked by the content of its type plate.

**CE marking according to:**

- Machinery Directive 2006/42/EG
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU

## 1.2 Customer Service

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In case of technical problems, contact our customer service or the respective responsible distributor for the respective country:

## 1.3 Liability

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The details in this documentation describe the features of the product without assuring them.

**No liability will be accepted for damage which arises due to:**

- Unintended use of the scanner.
- Disregard of the documentation.
- Unauthorized changes on the scanner.
- Improper work at and with the scanner.
- Operation of the scanner with defective safety equipment or improperly attached or non-functioning safety equipment.
- Insufficient monitoring of scanner parts, which are subject to wear.
- Improperly executed repairs.
- Unauthorized and improper modification of operational parameters.
- Catastrophes, influence of foreign bodies, and force majeure.

## 2. Intended Use

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The „CS.Neo“ scanner is intended for three-dimensional optical measurement of human jaw models in combination with the supplied software. Furthermore, the scanner enables a measurement of articulated models by means of the respective CADstar supplies.

Only imprints and plaster models of jaws as well as articulators may be inserted (max. 1500g, max. dimensions W x L x H: 200mm x 200mm x 160mm).

Use accessories specified by CADstar only.

The scanner is intended to be set up in ergonomic height (mind the national employee protection regulations). Any other use needs written consent by CADstar Technology GmbH. Unintended use may lead to endangering of persons and to damage of the device. The CS.Neo is not an independently functioning device, it must be equipped manually. Thus, it may only be taken into operation after reading and understanding the documentation.

Furthermore, in case of unintended use, liability and warranty are voided. The CS.Neo may only be operated under the conditions prescribed in this documentation.

## 2.1 Target Group and Previous Knowledge

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This documentation is addressed to the operating personnel of this scanner. The operating personnel have to be selected by the operating company and must fulfill following requirements:

- Basic technical knowledge
- Ability to read and understand these operating instructions
- The operators must not have visual impairment since they have to read the labeling on the scanner and the notes in the documentation without any problems.
- The person must be strong enough to lift the device and to carry it to its final location.

To obtain the knowledge that is necessary to operate the scanner, the following measures must be taken by the operating company:

- Product training (written confirmation by the trained persons)
- Regular safety briefings
- Inspection, maintenance, cleaning and installation may only be carried out by technical expert personnel with product specific training and/or electrical education.

## 2.2 Contents and Purpose of this Documentation

---

This documentation contains the relevant information for start-up, operation, maintenance, repair and disposal of the scanner.

This documentation shall enable persons to work with the scanner without danger.

Observing the notes mentioned here serves to avoid dangers and prevent damage of the scanner.

## 2.3 Operating Limits

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The operating limits for the scanner are restricted as follows:

- Ambient temperature: 5° - 38°C
- Clean and dry indoor climate
- Horizontal installation site on a stable and vibration-absorbing work
- Relative humidity: 20% - 80% - not suitable for wet rooms

## 2.4 Principle

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The scanner is technically at the state of the art and complies with valid safety and health regulations. Still the following dangers can occur due to operation error or misuse:

- for life or health of the user or others
- for the station or other properties of the operator
- for the efficient use of the scanner

## 3. Safety

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This documentation is designed according to the valid EU-directives and contains safety instructions. The operator of the scanner is responsible that the operating personnel receives the necessary safety relevant information and also reads the documentation. The individual persons themselves are responsible to observe the safety notes.

This chapter contains a general introduction to safety notes as well as a description of the warning and safety notes which belong to the safety signs on the scanner. Furthermore, important notes about accident prevention can be found in this chapter.

## 3.1 Signal Words used in Safety Notes

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### **DANGER**

*A safety note with the signal word DANGER points out immediate danger for the life and health of persons!  
Immediate danger for life and health of persons.*



### **WARNING**

*A safety note with the signal word WARNING points out dangerous situations that may affect the health of persons!*

*Danger of injury of persons and possible additional damage of property.*



### **CAUTION**

*A safety note with the signal word CAUTION points out possible dangerous situations that mainly may have damage of property as consequence!*

*Danger of damage of property and possibly additional slight injury of person.*

### **NOTICE**

*The symbol NOTICE points out supportive information on installation, operation, maintenance and installation.*

## Residual Risks/Warnings

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Although highest diligence was taken during construction and assembly of the scanner and all safety relevant issues were observed, some risks that were evaluated in a risk analysis may remain. In this chapter all residual risks and warnings which result from the risk analysis are listed.

### **NOTICE**

*The operating and maintenance personnel must be informed about operation and dangers on the device regularly. > Reading the operating instructions is mandatory.*



### **WARNING**

*Mechanical and electrical dangers due to incorrect installation > The installation of the scanner as well as repair tasks may only be carried out by authorized personnel.*



### **DANGER**

*Danger for third parties during commissioning > Make sure that no person is inside the danger zone before every start of the device. > If a danger arises, disconnect the scanner from the mains immediately.*



### **CAUTION**

*Danger due to falling objects > The device may only be transported when it is secured and packed correctly.*



### **DANGER**

*Crushing danger when positioning the device > Mind the possible crushing danger when handling the device. Especially when it is set down after transport.*



 **WARNING**

*Danger due to unergonomic height and unstable setup > The scanner is intended for installation in ergonomic height (see valid employ-ee protection regulations of the respective country). > In any case, the fundament of the device must be able to carry at least the double weight of the scanner.*

 **DANGER**

*Tripping danger due to lines installed on the floor > Mind the tripping danger due to lines installed on the floor. > Basically, install lines along walls. > The lines must not be tensioned.*

 **DANGER**

*Danger due to improper operation > Keep children away from the scanner. > Only trained personnel may work with the scanner.*

 **WARNING**

*Danger due to vibration during operation and insufficient load capacity > The installation site must handle possible vibrations during scanning without problems, i.e. the load capacity of the chosen fundament (workbench, table, etc.) must be at least twice as high as the value mentioned in the technical specifications.> Furthermore, the stability which is needed for absorbing the vibrations must be guaranteed.*

 **DANGER**

*Danger due to movement of the swivel arm > The swivel arm moves during operation. > The danger zone must not be reached into since fingers might be injured.*

 **WARNING**

*Danger due to unauthorized opening of the scanner > Opening the scanner is generally prohibited and may only be carried out by CADstar service personnel.*

 **WARNING**

*Unforeseeable dangers > If the device will not be used for a longer period of time, disconnect it from the mains and switch off the operating switch on the back of the scanner.*

 **DANGER**

*Crushing danger when closing the scanner cover due to attraction force of the magnets > Mind the crushing danger due to the attraction force of the magnets when closing the scanner cover.*

 **DANGER**

*Crushing danger when handling the scanner inserts > Mind the possible crushing danger when handling the scanner inserts.*

 **DANGER**

*Danger due to humidity > The scanner is not intended for use in damp rooms. > The scanner must not be touched by liquids. > Do not place vessels containing liquids on the scanner. > Cleaning may only be carried out with a dry cloth.*

## Safety Notes for the Operator

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### NOTICE

*The operating and maintenance personnel must be informed about operation and dangers on the device regularly. > Take care that every person, working at the scanner for the first time, has read and understood these operating instructions. > Especially point out the safety instructions in this documentation and on the scanner. > Keep the documentation near the scanner and pass the documentation on to new personnel. > Take care that nobody without technical knowledge handles the scanner.*

### NOTICE

*The operating and maintenance personnel must be informed about operation and dangers on the device regularly. > The operating personnel have to be trained regularly in order to operate the scanner safely! > Observe the national employee protection regulations!*



### DANGER

*Danger due to unauthorized startup during tasks on the scanner > If service, maintenance or repair tasks are carried out on the scanner, it must be protected against unauthorized startup!*



### WARNING

*Danger due to non-use of genuine spare parts > Only use genuine spare parts! > Otherwise warranty and liability may be affected!*



### CAUTION

*Danger due to unreadable warning notes on the scanner > Take care that the warning notes attached to the scanner when it is delivered remain well readable! > Missing or damaged warning notes must be replaced immediately!*



### CAUTION

*Danger due to additional devices of third party manufacturers or unauthorized modifications on the scanner > Later installation of additional devices from third parties or alteration of safety devices are not allowed without coordination with CADstar GmbH or the manufacturer of the respective additional device!*

## 3.4 Safety Notes for the Operating Personnel

---

### NOTICE

*The operating personnel must have the necessary qualifications > The scanner may only be operated by qualified personnel! > These personnel must be familiar with all safety notes and the respective measures mentioned in these operating instructions and on the scanner*

### NOTICE

*Protection against restart of the scanner > Before starting cleaning, maintenance or repair tasks the scanner must be switched off and protected against restart!*



### DANGER

*Danger due to electrical scanner components > The electrical equipment of the scanner contains devices which generate hazardous voltages and control rotating mechanical parts. > Keep away from voltage carrying areas!*



### CAUTION

*Danger due to electrical scanner components > Before starting cleaning, maintenance or repair tasks the scanner must be disconnected from the voltage supplies!*

## 3.5 Personal Protective Equipment

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The scanner is designed such that persons who work with it do not need any additional safety equipment above the usual work place equipment (e.g. safety shoes).

### NOTICE

*Mandatory measures for cleaning and maintenance tasks > Persons who perform cleaning and maintenance tasks must observe the safety measures implied by the cleaning agents (e.g. gloves for cleaning liquids, splash guard etc.)!*

## 3.6 Safety Notes on the Scanner

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Safety notes that point out possible dangers/remaining risks are also attached to the scanner. The instructions on the safety notes on the scanner have to be observed under all circumstances. If these safety notes should fade or get damaged during the life time of the scanner, they have to be replaced by new ones immediately. The readability and completeness must be checked in regular intervals.

As soon as the notes are no longer readable and understandable at first glance, the scanner has to be stopped until new notes have been attached.

### Pictograms

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#### Description

*Crushing danger. This pictogram can be found in the area of the swivel arm and should point out a possible crushing danger between the scanner and the swivel arm.*

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## 3.7 General Safety Regulations and Obligations

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Generally, the following safety regulations and obligations apply when using the scanner:

- The scanner may only be operated in perfect and clean condition.
- It is forbidden to remove, change, bridge, or bypass any protection, safety or monitoring devices.
- It is forbidden to reconstruct or modify the scanner without written approval by CADstar GmbH.
- The operator has to be informed about malfunctions and damages immediately. These have to be resolved promptly with genuine spare parts.
- Only genuine spare parts may be used for repair.
- The safety notes and operating hints from this documentation have to be observed without fail.
- All protection, safety and monitoring devices have to be checked regularly by the operator and main-tained (see maintenance plan).
- Only informed, trained and qualified persons may work with this station.
- After maintenance or repair the scanner may only be started with completely attached safety devices.
- The national employee protection regulations and the national safety and accident prevention regulations are valid.
- The area around the scanner must be kept clean. All objects which are not necessary for operation must be removed from the scanner environment.
- No objects or tools may be left on the scanner.
- Climbing the scanner is prohibited.

## 4. Transport and Installation Site

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It must be ensured that the device is only transported in packaging which is intended for it. Transport in insufficient or defective packaging may result in damage of the product. Furthermore, the product must not be exposed to heat or humidity during transport.

If the device is stored for a longer period of time, it should be stored in its original packaging and on a dry place. This should avoid corrosion and contamination.

## 4.1 Installation

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### 4.1.1 Unpacking

Remove the packaging of the scanner carefully and check if all parts which are included in the scope of delivery have been delivered.

#### NOTICE

*Environmentally friendly disposal of packaging > Dispose the packaging in an environmentally friendly way (paper into paper waste, plastic into plastic waste, etc.).  
> Keep the packaging for possible return.*

#### Scope of Delivery

- 1x 3D- Scanner „CS.Neo“
- 1x 3D- Calibration Body
- 1x Object Holder
- 1x Multi Die- Plate
- 1x Power Cable
- 1x USB 3.0 - Cable
- 1x Exocad Dongle „rockeyBlue“

### 4.1.2 Installation Site

- It must be ensured that the installation site is even and free from vibration and contamination.
- It must be ensured that the installation site is free from excessive exposure from dust or toxic and caustic gases and vapors and that no inadmissible heat arises.
- It must be ensured that the installation site is free from electromagnetic radiation.
- It must be ensured that the installation site is equipped with the necessary power and network connections.
- The power and bus lines must have a sufficient length.
- Choose an installation site which cannot be reached by children. The installation site must ensure a safe positioning of all connected cables.
- Power supply cables as well as incoming cables must not be damaged or crushed by other objects.
- Choose an installation site where liquids or objects (condensed water, etc.) cannot enter the device.

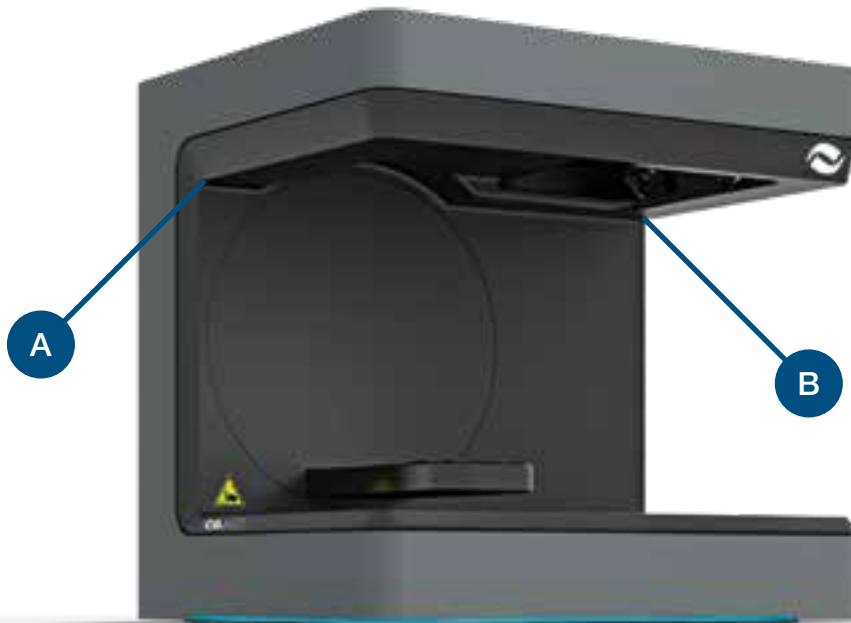
#### DANGER

*Danger due to heat > Never expose the scanner to direct sun and avoid direct proximity of heat sources (e.g. radiators, other electronic devices, fireplaces, etc.).  
> Ensure a generously measured air circulation around the device. Thus, damage to the device as well as burning danger due to overheating can be avoided.  
> Furthermore, direct sun or strong extraneous light might lead to undesirable reflections on the monitor and sensors of the scanner.*

## 4.2 Lifting Points

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The device is equipped with two lifting points (A) and (B). Touch the scanner at these points with the left and right hand. The device weighs 16 kg and can be carried by one person, the open side of the scanner should point away from the body.

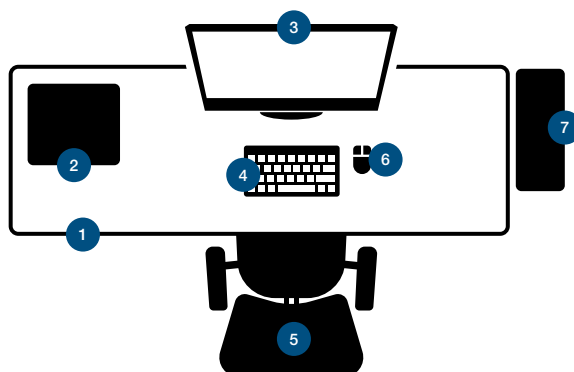


## 4.3 Example for Installation

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### NOTICE

*Schematic representation of the scanner > The following pictures are schematic representations of the scanner which serve as a visualization of the overall system.*



- (1) Desk
- (2) Optical 3D Scanner
- (3) Computer Screen
- (4) Keyboard
- (5) Desk Chair
- (6) Mouse
- (7) Computer

### NOTICE

*Danger due to loose cables > Ensure that cables are installed alongside walls.*

# 5. Installation

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## 5.1 5.1 Connector Strip CS.Neo

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The connector strip is on the back of the scanner and designed as follows:



(1) Power Switch      (2) Connection Power Cable      (3) USB 3.0-Port

## 5.2 Installation of the Scanners

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For installation proceed as follows:

### NOTICE

*Procedure for installation of the scanner > Make sure that the power switch (1) is in "0" position. (The position of the power switch may vary according to the device model).*

- Connect the „input power cable“ and the power supply via the supplied power cable.
- Connect the scanner and the computer via the supplied USB-cables with the intended USB-ports.



### CAUTION

*Danger due to electromagnetic radiation > It must be ensured that the installation site is free from increased electromagnetic radiation.*

## 5.3 Installation of the PC

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### NOTICE

*Consideration of the minimum system requirements > Consider the recommended minimum system requirements of the PC work-station in order to ensure a trouble-free function of the scanner.*

Install the computer according to the installation advice of the computer manufacturer. The user manual is preinstalled on the computer.

## 5.4 Installation of the Software

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### NOTICE

*Installation of the software > The CS.Neo Core scan-software is already preinstalled on supplied workstations. > If this is not the case, it can be installed via remote control by our customer service. > Hereto, contact our customer service, see chapter 1.2. > A software documentation is also attached to this documentation.*

# 6. General Description

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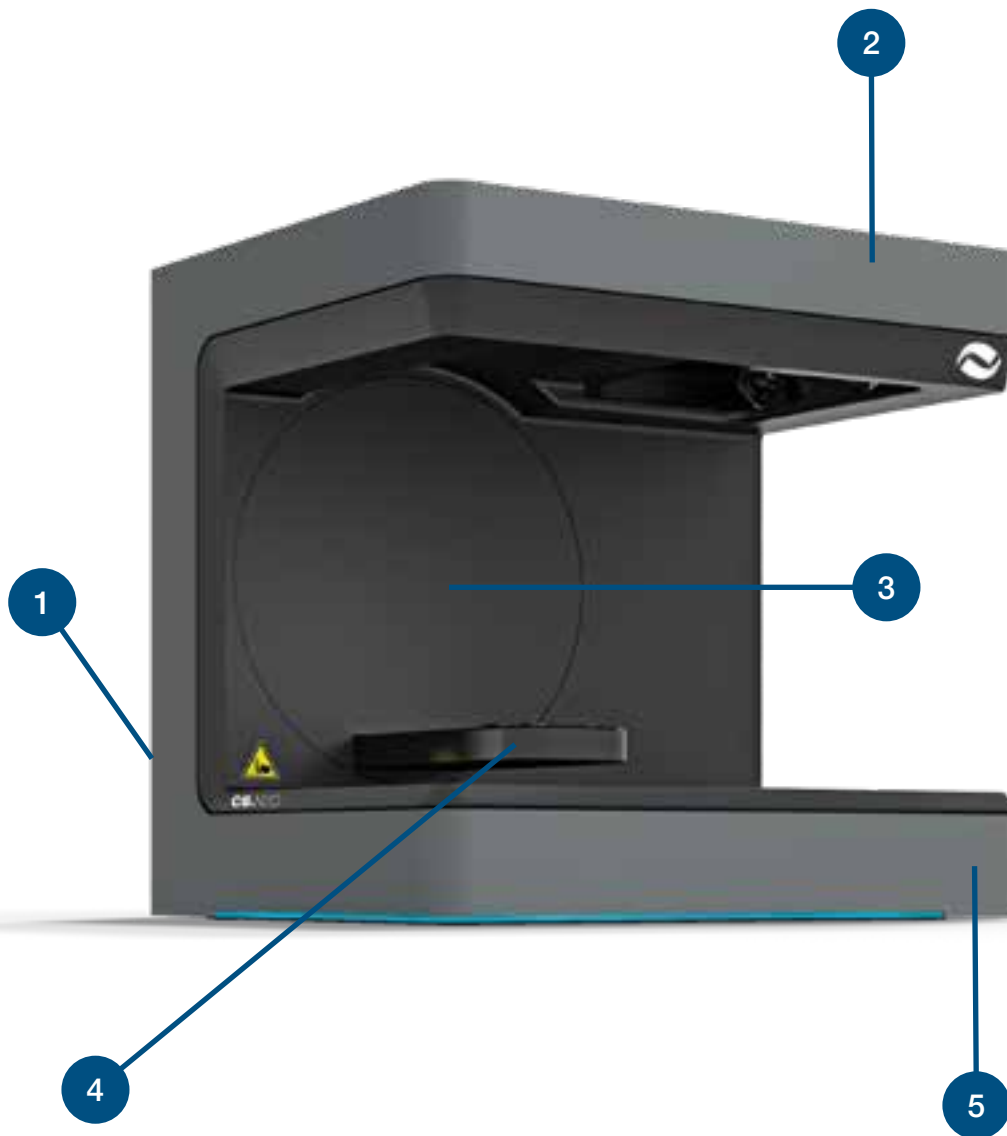
Optical 3D scanners are used for dental applications for three-dimensional measurement and digitalization of human jaw models. Based on the principle of „light stripe scanning“ a projector projects a light strip pattern to an optical mirror, which beams the test pattern onto the object, which should be measured. The distortion of the light pattern which is caused by the depth of the jaw model is registered by two high-resolution cameras, which are fixed to a tripod together with the mirror, processed and thus digitalized to a virtual, three-dimensional model.



## 6.1 Layout

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The connector strip is on the backside of the scanner and looks like this:



### Main Parts

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(1) Main Switch and Connector Strip  
(2) Scan Unit

(3) Swivel Bracket  
(4) Model Intake

(5) Platform

## 6.2 Optional Plugins

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### WARNING

*Danger due to non-use of genuine spare parts > Only use genuine spare parts!  
> Otherwise warranty and liability may be affected!*



- (1) Calibration Body  
(2) Model Holder with screw  
(3) Multi Die Adapter

- (4) Arti Base  
(5) Modelholder with blu tack (optional)  
(6) Qzarter-Tray adapter (optional)

- (7) Model fixator (optional)  
(8) Split Cast (optional) compatible to
- Artex / Adesso
  - Denar Mark2
  - Quicksplit
  - Bioart A7
  - KaVo Protar
  - SAM

## 6.3 Work Process

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Attach the respective jaw model to one of the inserts and fix the insert via the integrated clip- or magnet closure (depends on model).

Make sure that the scanner is in proper and safe condition.

Start the scanning procedure via software and proceed according to the software instructions.

The exact scanning process is described in the separate software documentation „CADstar Academy exocad Base Module CS.Neo“.

Contact our customer service in case of ambiguity (see chapter 1.2).

# 7. Maintenance Tasks

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## 7.1 Re-Calibration

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In order to guarantee a constant scanning result, it is recommended to calibrate the scanner once a week with the supplied calibration plate.

It is also recommended to calibrate the scanner after transport or relocation. A description of the re-calibration process can be found in our software manual.

## 7.2 Cleaning

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### CAUTION

*Danger due to entering foreign matters into the scanner > During cleaning no water, steam or detergents may enter the electrical scanner parts.*



### DANGER

*Danger due to unintended start > The optical 3D scanner must be switched off and protected against restart before cleaning tasks. > Hereto, switch off the toggle switch on the back of the scanner in order to avoid a possible danger due to unintended startup.*



### CAUTION

*Damage of the scanner due to incorrect cleaning > In order to avoid damage on the optical sensors which are in the upper part of the scanner, it must not be cleaned by the operator, since those parts are sensitive and might be damaged due to incorrect cleaning. > Additionally, it is recommended not to use any strong cleaning agents since they could also damage the scanner.*

Cleaning tasks on the scanner may only be performed by instructed persons who are informed about the danger that may emanate from the scanner.

During cleaning tasks the scanner must be stopped and the electrical supply must be switched off. By switching off the electrical supply the pneumatic supply is switched off as well.

The scanner may be vacuum-cleaned or wiped off with a dry cloth for cleaning purposes. The following cleaning tasks must be carried out in the intervals mentioned below:

Cleaning Task	Interval
Vacuum-clean / dust off control elements	weekly
Sweep floor around the scanner	weekly
Dust off electrical equipment (computer, connector strip, ca-bles, control elements, etc.)	weekly

## 7.3 Repair / Troubleshooting

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The optical 3D scanner contains sensitive electrical components and sensors. Hence, repair may only be carried out by trained expert personnel. In case of errors which cannot be solved by restart of the scanner or the workstation, contact our customer service immediately (see Chapter 1.2).

### NOTICE

*Errors on the scanner > In case of errors or unintended changes on the scanner contact our customer service immediately.*



### DANGER

*Danger due to stored residual energy > The scanner may still contain remaining energies that might be released un-expectedly during maintenance and therefore cause danger for persons.*



### DANGER

*Danger due to insufficiently trained personnel > Tasks may only be carried out by expert personnel. > Any operation which might affect the safety of the scanner must be avoided*

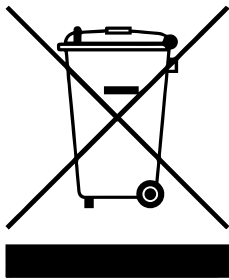


### DANGER

*Danger due to unauthorized persons > The operator must ensure that no unauthorized persons perform tasks on the scanner.*

## 8. Disposal

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*In case of disposal, the scanner may be returned to the manufacturer or distributor.*

*Mind that the scanner is an electronic device which may only be used for industrial or commercial use.*

*Hence, disposal via public disposal providers is not possible. Contact our customer service for disposal.*

# 9. Appendix

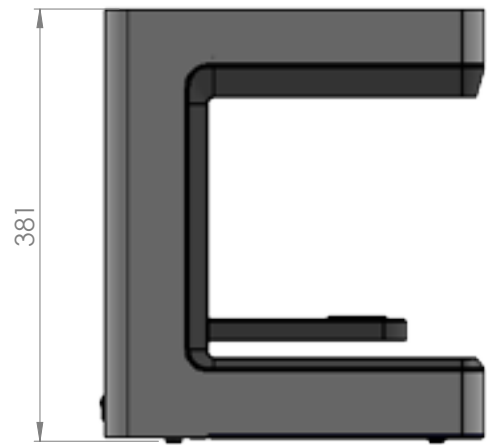
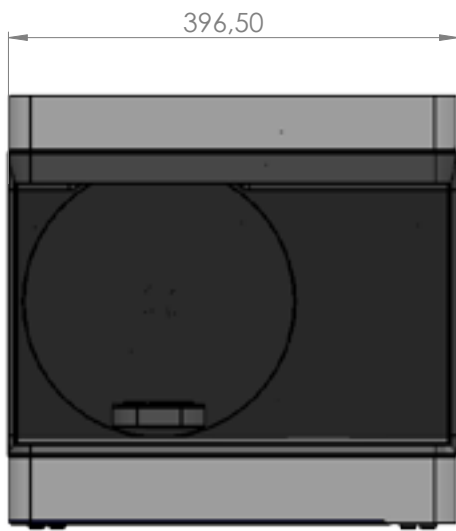
## 9.1 Technical Data

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Designation	Optical 3D- Scanner
Type	CS.Neo
Manufacturer	CADstar Technology GmbH
Year of Manufacture	since 2018
Weight	12 kg
Measurements	H 380mm ; W 395mm ; D 335mm
Supply Voltage	100-240V AC, 50-60Hz
Power Input	70 Watt
Protection Class	IP11
Operating Temperature Range	18-30°C
Measureable Objects	Jaw Models: all colors possible Imprint scan possible
Clamping Range	Objects up to 80x80mm in model holder
Time for the measurement of	Single Dies: < 15 sec 3- unit Bridges: < 90 sec Complete Jaw: < 40 sec
Accuracy	< 5μ
Dimensions of the Measuring Range	160 x 160 x 160 mm
Scan- Modes	Guided workflow
Multi Die- Adapter Capacity	up to 9 dies
Output Format	STL, OBJ, OFF, PLY
Interfaces/Connections	1x USB 3.0
Scope of Delivery	1x 3D Scanner 1x Model Holder 1x Calibration Body 1x Multi Die Adapter 1x Arti Base
Recommended minimum requirements for PC Workstation	OS: Windows 10 Professional Hard Drive Space: 250 GB SSD Processor: Intel Core i5 Working Memory: 8GB RAM Graphic Adapter: NVidia GeForce Graphic Card with min. 2GB RAM (e.g. GTX 750)

## 9.2 Product Drawings

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## 9.3 Declaration of Conformity

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(Translation of the Original EU-Declaration of Conformity)

**Manufacturer:**

**Authorized Signatory:**

---

*CADstar Technology GmbH  
Sparkassenstraße 4  
5500 Bischofshofen*

*Georg Dick (CEO)*

**Product:**

**Declaration:**

---

*Optical 3D Scanner  
CS.Neo*

*CADstar Technology GmbH hereby confirms that the accompanying product corresponds to the fundamental requirements of the directives 2006/42/EG, 2014/30/EU, 2014/35/EU and the provisions of the directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU. The technical documentation according to Annex VII A of the directive 2006/42/EG has been created.*

**Applied Standards:**

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*EN ISO 12100: 2010*

*Safety of machinery - General principles for design - Risk assessment and risk reduction*

*DIN EN 61000-6-1: 2007*

*Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments*

*DIN EN 61000-6-3: 2011*

*Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments*

*DIN EN 60204-1: 2014*

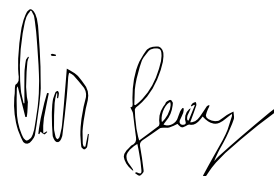
*Safety of machinery - Electrical equipment of machines - Part 1: General requirements*

*EN ISO 4871: 2009*

*Acoustics - Declaration and verification of noise emission values of machinery and equipment*

*DIN EN 82079-1:2013*

*Preparation of instructions for use - Structuring, content and presentation - Part 1: General principles and detailed requirements.*



*Bischofshofen, 04. February 2019*

*(Georg Dick)*

*(Place and Date of Issue)*

*(Name and signature of the person authorized to sign.)*

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