cara®
Brochure

cara© i500 Intraoral Scanner

Digital convenience with exceptional accuracy.

Giving a hand to oral health.

KULZER
MITSUI CHEMICALS GROUP

cara i500

Make the move to digital confidently with cara.

Perfectly fitting restorations require absolutely precise impressions—digital data capture helps to ensure that perfect fit. That's why Kulzer's new intraoral scanner, **cara i500**, is the ideal partner for digital impression-taking.

Developed in partnership with Medit, cara i500 is more than just an intraoral scanner, it's a comprehensive digital solution. Cara i500's cloud-based workflow management system makes the transition into digital dentistry as seamless as possible by facilitating communication and cooperation between dental office and lab.

Digital impression-taking made easy for the dental office:

The intraoral scanner provides an attractive entry into digital impression-taking with all its advantages in accuracy, efficiency, and productivity:

- greater precision and improved accuracy
- process reliability and regular software updates with low cost of ownership
- improve patient experience and attract new patients with expanded treatment options and the ability to take impressions at any time
- ease of use, scaling work routines, heightened efficiency
- state-of-the-art technology at an attractive price-to-performance ratio
- quick and easy operation—no steep learning curves

Communication and sharing made easy for the dental laboratory:

Dental technicians are increasingly moving to CAD/CAM production with additive and subtractive manufacturing. The advantages of dentists providing digital impressions include:

- optimized digital processes for the lab
- increased effciency through secure communication
- compatibility and flexibility through open STL/OBJ/PLY data format
- a more integrated workflow—digitized data can be easily imported into any CAD software
- significant time and cost savings—designing the restoration can begin right away, without shipping and storage requirements
- easy and secure communication between dentist and lab

Digital Workflow with cara i500 and cara Print 4.0

Digital precision meets process reliability.

- Scan with **cara i500**
- Transfer file through **Medit Link** to Laboratory
- 3rd party or laboratory **designs** in CAD
- Nest with **cara CAM**
- Print with **cara Print 4.0** and **dima Print Materials** (for 8 indications)
- Wash with **cara Print Clean**
- Cure with **HiLite Power 3D**

More on cara digital solutions at
kulzerUS.com/cara

Get to know cara i500:

Small tip and **powder-free** scanning make the process comfortable for the patient.

Double focus: **Two high-speed cameras** ensure fast results and high-resolution images thanks to rapid, video-based scans.

One button to start, and to stop – it's as easy as that.

Intuitive scan software and smooth scan routines ensure **speed** and **accuracy**, and enable direct visibility of the impression result.

Easy and secure communication between dental office and lab due to the **integrated cloud** solution for sharing files with the preferred lab.

With cara i500, dental office and lab gain maximum flexibility for their treatment and manufacturing processes by sharing a common base of digital data with high accuracy for a **wide range of indications**:

- Single Custom Abutment
- Inlays & Onlays
- Single Crown
- Veneer
- 3 Unit Implant Bridge
- Up to 5 Unit Bridge
- Orthodontics
- Implant Guide
- Diagnosis Model
- Denture Workflows*

*Not for edentulous jaws

cara

STL

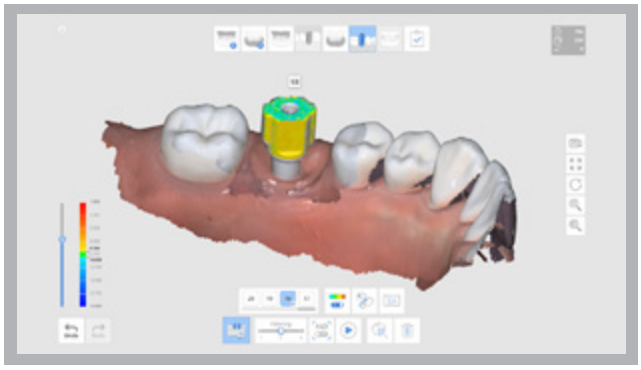
The open system can export the .stl, .ply, or .obj files for more convenient processing and design.

Vivid, precise colored scans for easy differentiation between soft tissue, plaque, and teeth.

Lightweight handpiece with **excellent maneuverability** for increased comfort for patient and practitioner.

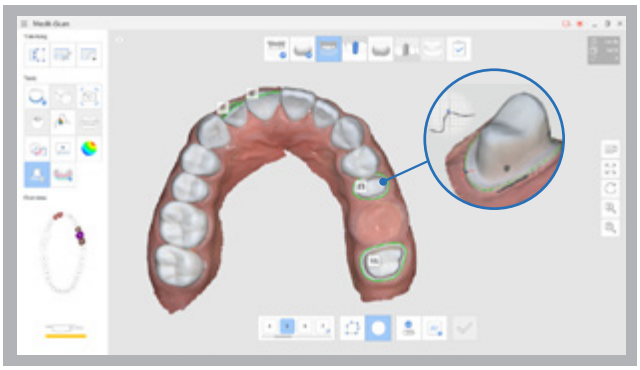
Learn more by visiting
kulzerUS.com/cara-i500

*i*Scan Functionalities



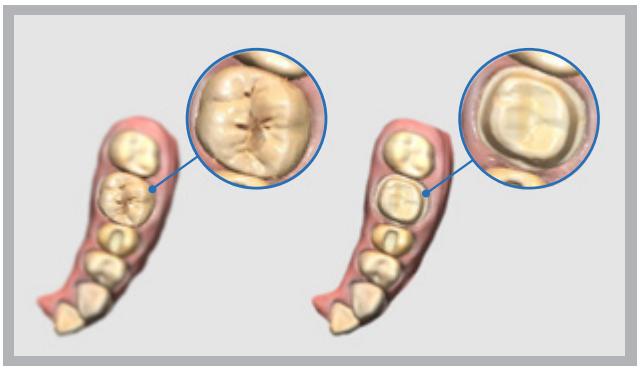
A.I. Abutment & Scan body Matching

This function allows you to match scan abutments and scan bodies, thus saving time in instances of poor scanning environments. You can select the appropriate library for your tooth. When you scan the corresponding tooth, the scan abutment and scan body are automatically matched and aligned with the scan data. A manual alignment option is also available. The library data can be shared for further processing such as design.



Margin Line Creation

iScan features automatic and manual margin line creation as well as edit functions. While scanning a patient, you can add or edit control points to the prepped teeth scan data in order to draw the most accurate margin line. The created margin lines will be forwarded for more accurate prothesis design and production along with your order.

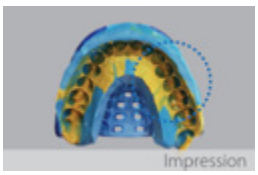


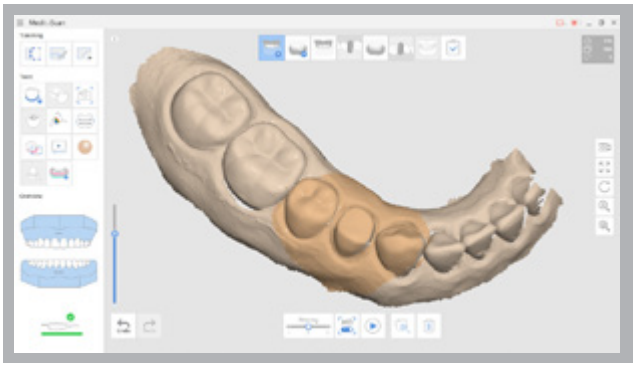
Pre-Operation Scan

You can perform a pre-operation scan of a patient's teeth and utilize this data for a variety of uses. With this pre-operation scan data, the post-operation scan can be performed more quickly and easily. The data can also be used as reference data in the modeling process to assist you in creating more natural prosthesis.

Digital Scan & Traditional Impression Scan

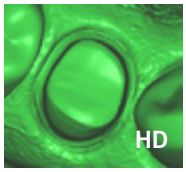
This function supports scanning operations which use both oral scan data and impression scan data. With just a simple scan, both data can be sorted and merged in real-time and used for modeling.

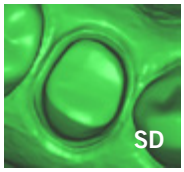




High Resolution Scan

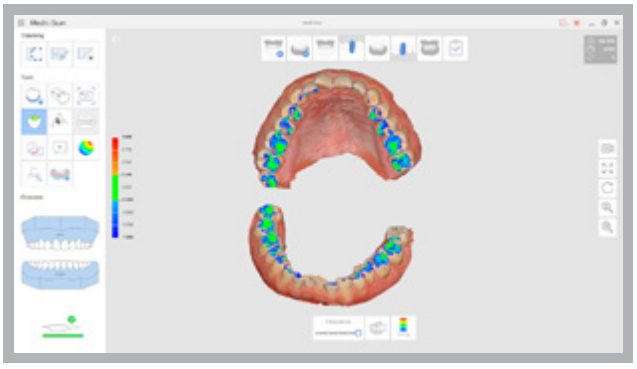
You can select specific parts of the tooth to scan at high resolution. This function allows you to scan in HD only where it is required, enabling efficient management of scan time, data capacity etc. The selected area is displayed in a different color for ease of use.





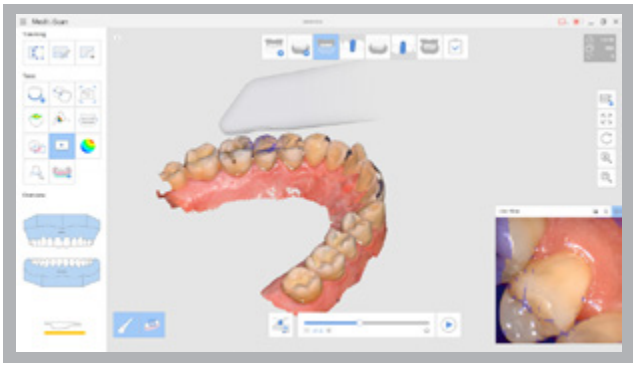
HD Camera

Along with 3D Scan function, this function allows you to use the scanner as an intraoral camera to take HD pictures. You can share images with a lab and use them when consulting patients.



Occlusion Analysis

The occlusion analysis function quickly analyzes the occlusal state of the maxilla and mandible, displaying the results in a color map with numerical values. The color map shows the degree of occlusion in different colors and displays the corresponding values when you move the cursor over each area. You can also check the distance between the prepped tooth and its antagonist.



Scan Replay

The scan replay function allows you to replay a previous scan process. By virtually showing the scan tip and scan area, you will be able to see how it was scanned, enabling you to identify and improve your scanning methods or habits.

The cara i500 uses Medit Link for file transfer.

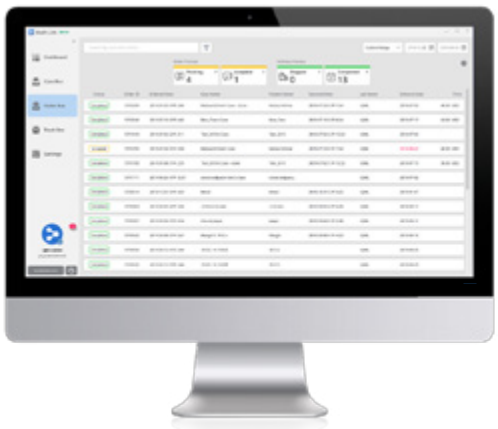
Medit's new workflow management and communication software, Medit Link, is developed to enhance your performance. Its integrated cloud storage and open data architecture ensure that your clinic's performance is optimized. However, everyday CAD processes with real-time workflow management and communication tools will also work.

Dashboard

Analytics

Cloud Storage

Communication

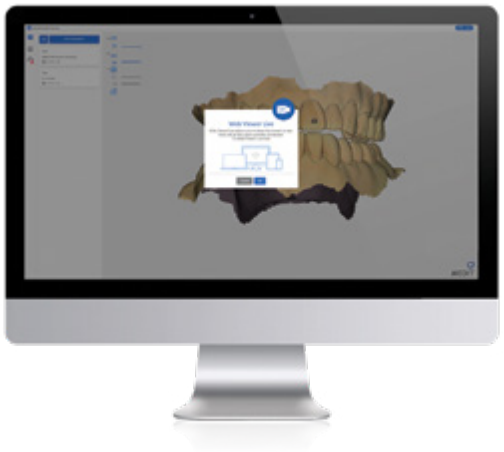


Dashboard

With the Medit Link Dashboard you can view scan and order status, cloud usage, data storage space, and calibration intervals in real time, as well as keep track of daily scans as represented on a graph. The function allows you to easily manage the performance of your business and communicate effectively for more efficient operations.

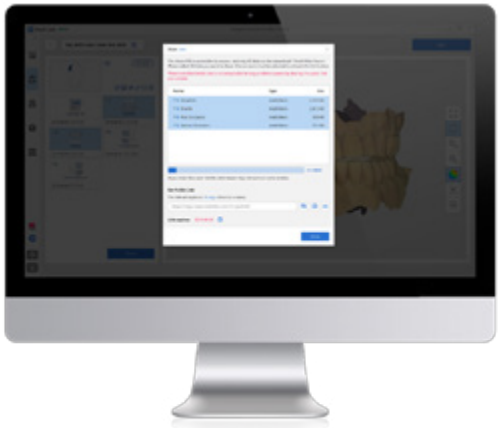
Cloud Storage & Scan Data Synchronization

Medit Link is coupled with cloud storage for all digital scan files, therefore requiring less space than physical copies. The real cloud system allows you to work on your original scans, easily archive your digital impressions and orders, as well as manage your cases wherever you are. In addition, partners can easily make adjustments to the working files as required.



Easy Communication

By integrating direct communication options, you can ask your customers questions quickly to ensure the highest-quality outcomes. This will not only increase the quality of your end-product, but will also save you money and improve your customers' satisfaction in the long run.



Web Viewer & File Sharing

The File Sharing option allows you to create links to 3D data and share them with your partners. The Web Viewer allows you to view and adjust scan data on your PC or mobile screen, as well as capture images and add notes. You can also look at the Web Viewer screen and communicate in real-time with your partners and patients for higher quality results and better patient care.

Workflow Management

Medit Link allows tracking of workflows from order to delivery, and can even be linked to CAD/CAM software to improve work efficiency. Medit Link was created to help you manage your workflow in the easiest and most effective way possible, saving you valuable time.

**Please note your laboratory will need to be connected to Medit Link for CAD design capabilities.*

The easy entry into digital dentistry

reddot award 2019 winner

Specification

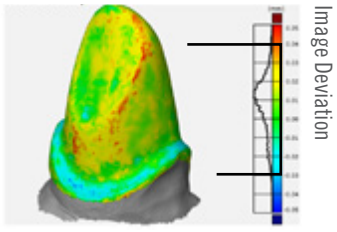
Category	Description
Tip size	19 x 15.2 mm (W x H)
Length of handpiece	266 mm
Weight of handpiece	276 g
Scanning field dimension	18 x 18 mm
Scan depth	up to 21 mm individually adjustable
Imaging technology	3D-in-motion video technology
File formats	.stl, .ply, .obj
Color	3D full color streaming capture
Ports	USB 3.0

High Accuracy

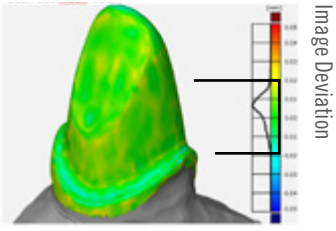
	In Vitro*		In vivo**
	Trueness	Precision	
Single	5.3µm ± 0.34	3.2µm ± 0.49	10µm
Quadrant	17.3µm ± 0.43	6.3µm ± 0.63	25µm
Full arch	21.0µm ±1.48	22.6µm ± 7.55	50µm

*Accuracy test in vitro was conducted by Yonsei University College of Dentistry according to the methods in "Accuracy comparison analysis on scan data of single tooth, quadrant, and full arch between two types of intraoral scanner, i500 and Trios 3"Ji-Man Park, 19 December 2018. **Accuracy test in vivo was conducted by Medit.

3shape Trios 3



cara i500



*Data conducted internally with Kulzer

The perfect complement to your digital workflow: analog impression solutions from **Flexitime**.

When the situation requires analog impressions to be taken, the Flexitime family of impression materials has you covered. Dental professionals trust Flexitime as a supplement to digital impression-taking due to its excellent precision and reproduction of details, high degree of toughness, and Advanced Thermasense Technology—the innovative chemistry that reacts to warmer intraoral temperatures.

Flexitime impressions are:

- Reliable and precise, even in adverse conditions
- Tough yet flexible, to withstand distortion and tearing
- Powered by a unique self-warming chemistry to allow for variable working times and added convenience

Flexitime® VPS Impression Material

Xantasil® Alginate Substitute

Also from Kulzer:

cara© Print 4.0

Quick, precise, economical:
The perfect fit.

- Quick and easy: print appliances in one hour or less.
- 3D-DLP technology—for accurate appliances that fit perfectly.
- More cost-effective than most 3D printers.
- Open STL files work with most CAD programs.

dima© Print materials

Fine-tuned 3D
printing photopolymers.

dima Print materials are light-curing monomeric liquids specially optimized for 3D printing and the requirements of dental applications. All dima materials indicated for intraoral use are FDA-cleared.

When used with cara Print 4.0 and the HiLite Power 3D post-curing unit, you'll see the benefits of a comprehensive 3D-printing system designed for speed, reliability and value.

Questions? Our support team of dental professionals are ready to help.
Contact them at **CustomerService.NA@kulzer-dental.com**

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