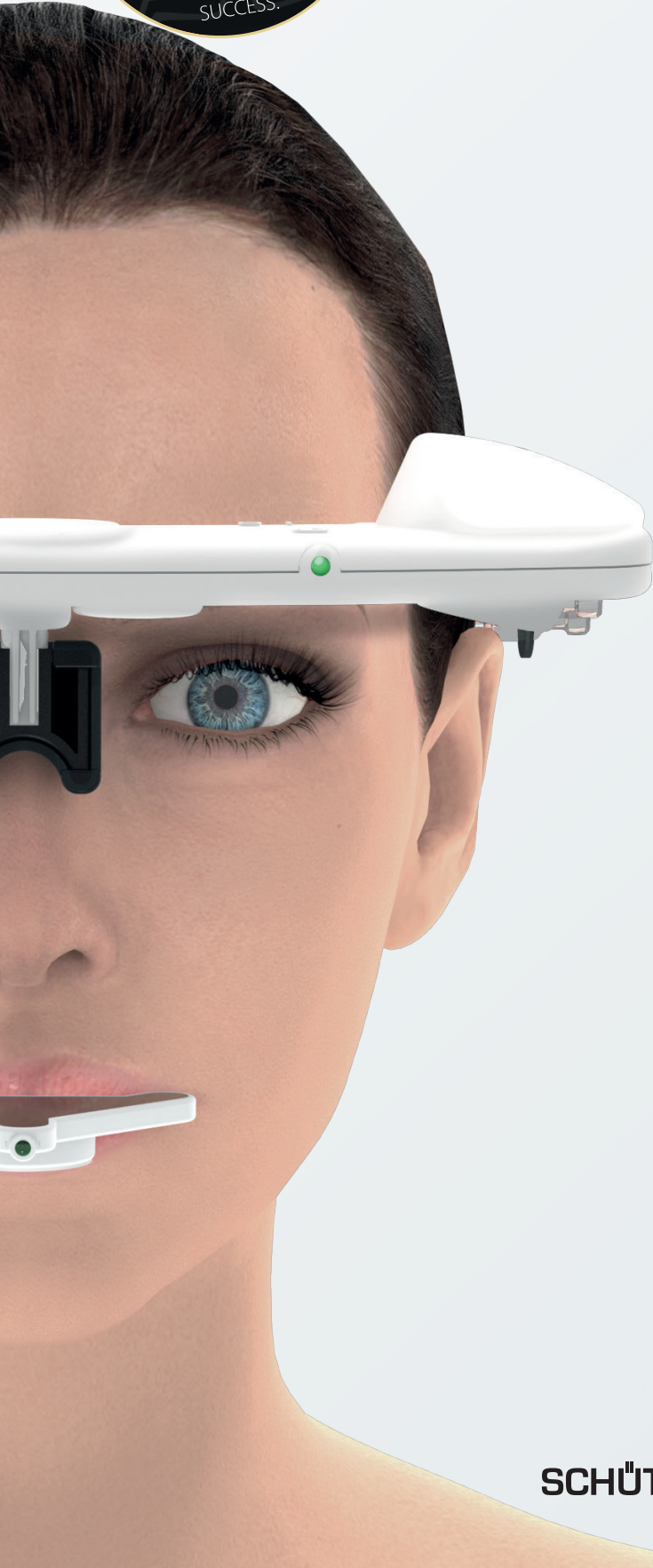




Digital Functional Analysis

Real Movement in Functional Digital Dentistry





Tizian JMA Optic – precise, safe, quick & economic!

Tizian JMA Optic – The new dimension of the function-oriented digital workflow

Welcome to the world of functional digital dentistry

Your benefits

- **Reliable prosthetics**
- **Forensic transparency**
(see module „function“ p. 4)
- **Documentation**
- **Happy patients**
- **Digital reputation for your practice**
- **Decisive competitive advantage**

The Tizian JMA Optic System by zebris is based upon the latest optical sensor technology which makes it a new dimension in functional dentistry.

The Tizian JMA Optic jaw registration system records all degrees of the lower jaw's mobility quickly, precisely and contact-free. Functional analysis examinations can help determine discoordinations and movement limitations as well as neuromuscular jaw relations. For the creation of functional dentures, the system calculates the setting values of the established mechanical and virtual articulators and provides these together with the real movement data as an export file for CAD/CAM systems.

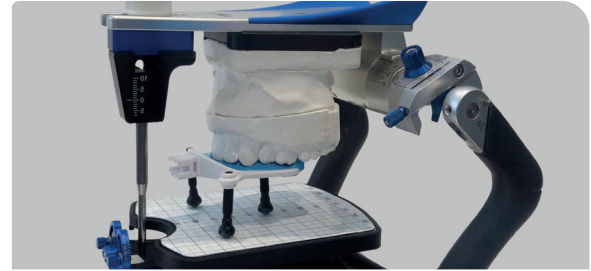
Real Movement: The patient's real movement data or the setting values of virtual articulators are transferred via standardized XML export to external CAD systems (Tizian CAD/CAM System). Therefore, the system is a **decisive component of Schütz Dental's digital workflow** for the production of functional dentures. A **patented coupling tray** establishes the exact relationship between movement data and the tooth surfaces recorded by either the model scanner (Tizian Smart-Scan Plus 3.0) or the intra-oral scanner (i700). At the same time, it is a **part of the new zebris transfer table** and facilitates a simple transfer of the skull-related maxillary position to mechanical articulators. This makes the use of a mechanical face bow unnecessary.

Precise: The Analyser consists of a handy stand-alone headbow with lower jaw sensors. Aside from the condyle movement, you can record **all six degrees of the lower jaw mobility with a high level of precision.**

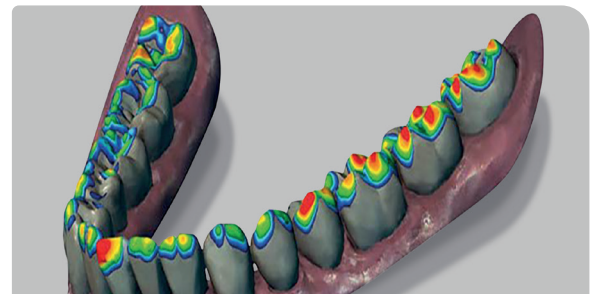
Quick: The system can be operated optionally over a USB interface or completely without a cord via Wi-Fi. The head bow is attached in a few simple steps with the nasion support, head band and support pads on the spring-mounted side arms. **A defined reference plane of the skull is entered via the new C-bow.**



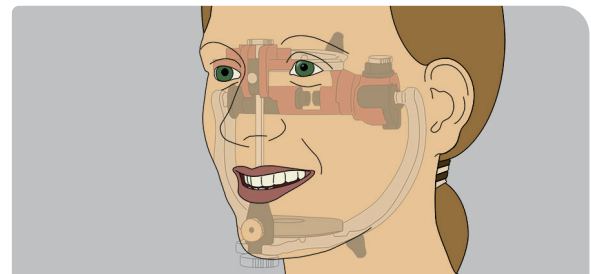
Safe: The table stand included in the basic system provides a safe place to store instrument components. The battery-powered head bow is charged by the inductive charging base integrated in the table stand. The extremely small and light-weight lower jaw sensor fastens magnetically onto paraocclusal or occlusal attachments and is then linked to the teeth in the lower jaw.



Transfer table for the transfer of the skull-related maxillary position in mechanical articulators using the coupling tray.



The system is ready for visualizing the static and dynamic contact situation.

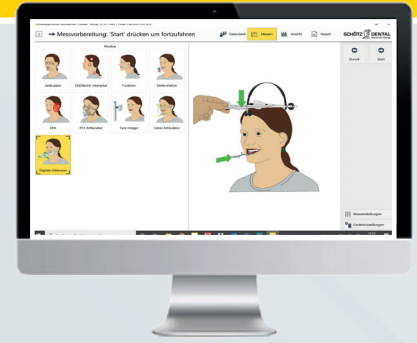


The basic software module lets the user program articulators and export real movement data.



Tizian Function Pro 2.0 Software

9 modules with many great features



Articulator

This module consists of the movements protrusion, laterotrusion left and laterotrusion right.

The recorded results must be viewed in a differentiated manner, depending on the patient's movement. The articulator values are usually determined with tooth contact. This way, the system can identify the value for adjusting the individual anterior tooth guidance tray. The same is true for lateral movements which pass over the canines respectively over the posterior teeth.

Please note that the values for the articulator settings are generated from idle movement. Additional movements of the patient guided by the practitioner may influence the validity of occlusal freedom of movement. We recommend to test any restorations produced with zebra values inside the patient's mouth and to correct them, if necessary.

Electronic Position Analysis (EPA)

The Electronic Position Analysis allows for the determination of condyle positions in the maxilla.

Registrations inserted between the rows of teeth can be compared with each other and splint positions can be checked. In addition, markers in relation to the condylar path are set. The diagnosis of the location of pains which are caused by a condylar misalignment can be supported.

The new possibility of recording a video promotes the digital data transfer between dental practice and dental lab. It forms the basis for an optimized communication „Quick Support“.

Jaw relation

The module „Jaw relation“ lets the user determine the correct relation between mandible and maxilla with the classic support pin registry, jig, aqualizer and hand-guided positioning. In addition, the target movement of the mandible to a determined position is supported in real time. This is transferred via registration material for diagnostic assessment and prosthetic restoration. This registration can also be used to determine and diagnostically assess temporomandibular joint positions with the aid of the EPA module.

CMDfact® Interactor

Adaptation to the functional software CMDtrace (Dr. Oliver Ahlers)

The module facilitates the registration and evaluation of the functional movement area (capacity of movements) as well as the coordination of lower jaw movements. It is possible to get an impression on the coordination of movement execution via the speed of the condyles in the course of movement. For this purpose, the movement information from the opening and closing movement is specially processed.

Cerec Articulator

Creation of an interface for Cerec users

The measurement consists of the movements of protrusion, laterotrusion left and right as well as an opening movement. The results of the recording are to be considered in a differentiated way, depending on the patient's movements. The patient's movements are recorded with help of an occlusal attachment in order to determine the settings for the digital Cerec articulator.

Function

The individual steps of a 3D analysis are described on the basis of the standard settings. Additional patterns of movement, their recording sequence and their number are pre-configurable via the recording settings.

PlaneFinder PS1 Articulator

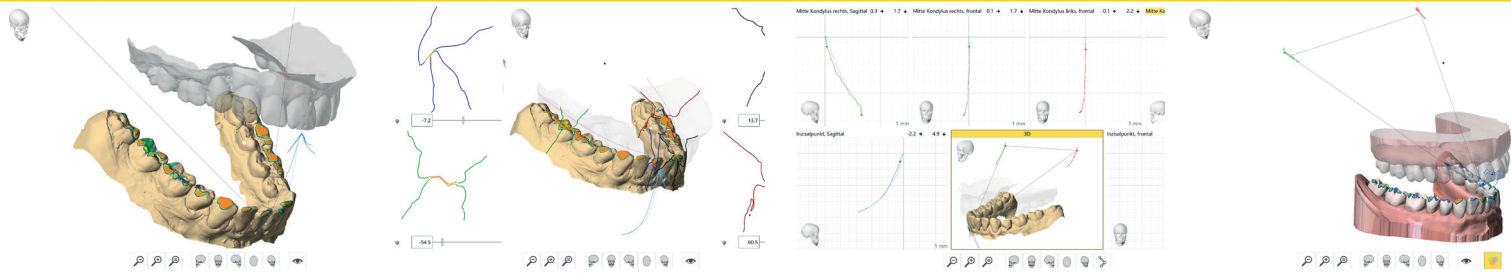
The recording consists of the movements of protrusion, laterotrusion left and right as well as an opening movement. The results of the recording are to be considered in a differentiated way, depending on the patient's movements. The articulator values are generally obtained by tooth contact. With these values, the system determines the value for the setting of the individual anterior tooth guide tray. The same is true for lateral movements which pass over the canines respectively over the posterior teeth.

Face Imager

This feature serves to record photographs and videos of the patient. This additional information can be passed on to the dental technician to receive an even more precise result. With help of the Tizian Creativ RT CAD software, the patient can receive a preview of the restoration even before it has been constructed.

Digital Occlusion

Presentation of the real data with live occlusion. This module consists of the patient's individual movements and the digitalized jaw models. It offers the possibility to view the contact relations of the teeth's occlusal surfaces statically and dynamically already during recording. Run up to four transverse section planes through the models during analysis or determine premature contacts or which areas are loaded particularly often.



Module: Digital Occlusion

Interfaces and options for data export



- Virtual Articulator Settings Export – Export to exocad Aside from the movement and position data, the setting values of conventional articulators as well as ROM parameters can be exported. With these settings, the skull-related position is transferred, as well. This is exceptional in combination with the intraoral scanner, as this gives the user an option to use the skull-related position in the digital workflow for the very first time.
- VideoExport - The VideoExport is available in each application/each module
- zebris .zebdb Data Export - (Anonymous) export of patient data/recorded data from the patient data base; Exchange of individual data sets e.g. with colleagues who also work with this software; Database backup copies
- CSV-Raw Data Export from the Database Raw data of movement and position information for the static analysis and processing in a third party system like Excel, Matlab or SPSS.
- CSV-Export from Report - For statistic analysis of patient cases

The modular and intuitive evaluation software **Tizian Function Pro 2.0** contains: a database, the basic module for determining the setting parameters of mechanical and virtual articulators, and the export function for real trajectories. Optional extension modules for function analysis, condylar position analysis and determination of a neuromuscular jaw relation as well as the Plane Finder module are available. The optional modules Cerec Articulator, Face Imager, CMDfact® Interactor and Digital Occlusion have been added.

The system comprises:

- Electronic head bow
- Lower jaw sensor
- C-bow
- Evaluation software Tizian Function Pro 2.0 by zebris with basic module, articulator and data export.
- Table stand/inductive charger
- Foot switch/manual button (wireless)
- Attachments
- Instructions for use
- Transport case

Optional: Different software extension modules, laptop

Operation via a standard PC with Windows 10 operating system.

Basic color: white RAL9003



Mobile: Conveniently store and transport the complete system inside the case provided.



Why is measuring with **Tizian JMA Optic System** by zebris now indispensable for you?

„Let’s start with the most important part: A **safe prosthetic restoration for my patients.** And as a result, a safeguard for me as the attending dentist. With this system, it is possible to transfer individual patient information to the digital articulator and to have the data ready at all time as documentation in the practice for planning or for health insurance companies.“

Dr. Nadine Buchholz

Dentist & Speaker „Digital Practice“

Get your individual offer
Ask your Schütz Dental Export Area Manager or contact our Back Office Team!

SCHÜTZ DENTAL



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The idea of putting smiles back on the faces of patients. Dentists were already using the predecessors of the current IMPLAnts over 50 years ago. Benefit from many years of experience.

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Our implants have been used successfully in the clinical environment since 1963. IMPLA means safety and high German quality at reasonable prices.

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zebris JMT Function Pro

- functional and fast
- economic and efficient
- safe prosthetics and a high level of precision

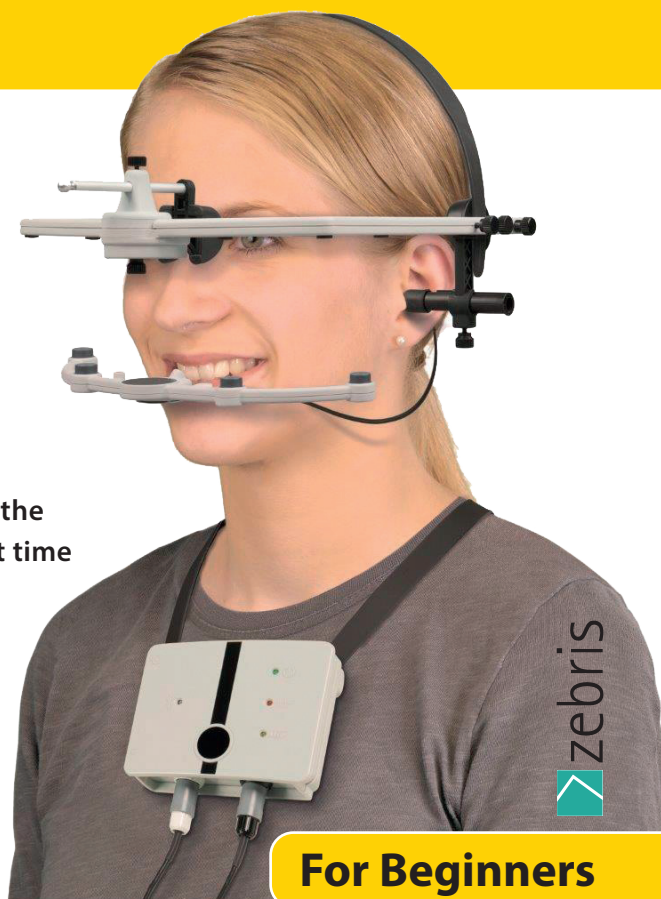
„Real Movement“ – transfer the patient’s movement data to the virtual world of the „Complete Digital Workflow“ for the first time

This will open up completely new possibilities for you:

- Reduce your grinding times
- Increase the prosthetic safety
- Replace the conventional face bow and save time, while at the same time increasing precision
- Minimize any transfer errors by means of a direct interface to Tizian Creativ RT CAD software

Quick, flexible and individual recording of the lower jaw movements

- Easy handling
- Convenient basic unit for wearing comfort
- Transfer measuring data wireless via bluetooth or via USB interface
- Record your patients’ movement data in a flexible and individual way



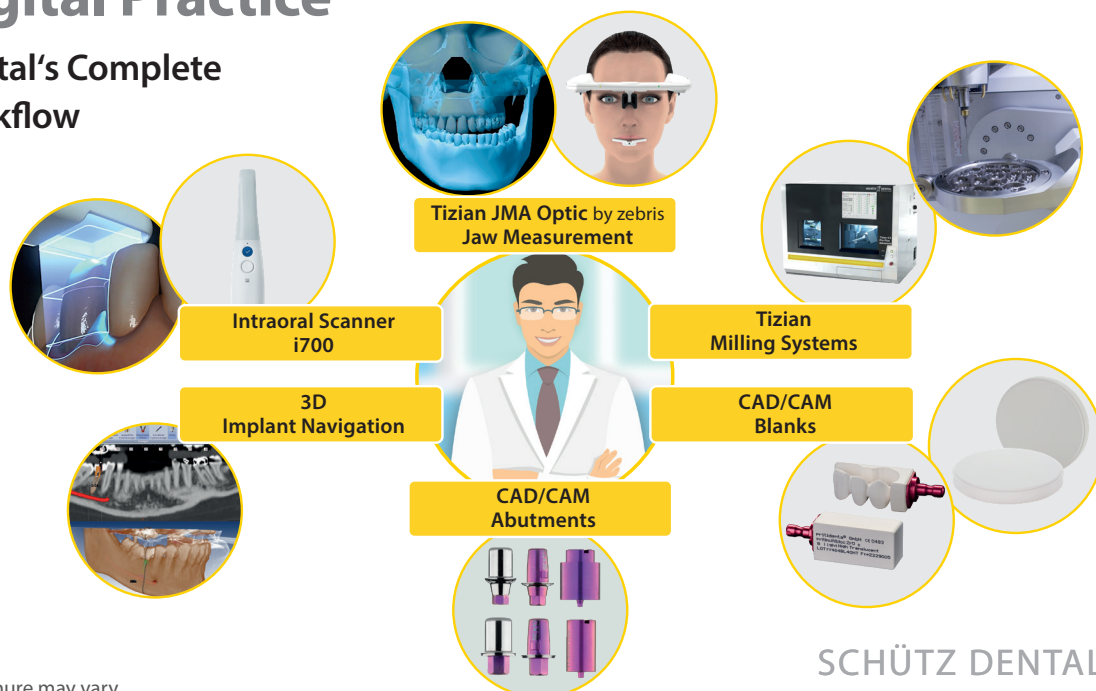
For Beginners

Scope of delivery



The Digital Practice

Schütz Dental’s Complete Digital Workflow



Pictures in this brochure may vary.

SCHÜTZ DENTAL

Tizian JMA Optic by zebris

| 7 |



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+49 (0) 6003 814-362



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Schütz Dental GmbH • Dieselstr. 5-6 • 61191 Rosbach/Germany • Tel. +49 (0) 6003 814-362 • Fax +49 (0) 6003 814-907
www.schuetz-dental.com • export@schuetz-dental.de

