

# Freecorder<sup>®</sup> BlueFox

Motion capturing



>> Various areas of application

>> Flexible benefits

## 01 PROSTHODONTICS

>> Accurately fitting prostheses with functional chewing surfaces allowing for dynamic occlusion

## 02 DENTAL TECHNOLOGY

>> Improved results in prosthetic and orthodontic therapies as well as creating loyalty of (new) customers because of service aspects

## 03 ORTHODONTICS

>> Possibility of early measurement of children for functional therapy and to ensure anatomically and physiologically correct condyle position during and after orthodontic therapy

## 04 IMPLANTOLOGY

>> Increased reliability by allowing for dynamic occlusion and integration of Freecorder®BlueFox data with the end result in mind at the beginning of treatment

## 05 GNATHOLOGY

>> Reliable and rapid diagnosis and therapy of cranio-mandibular dysfunctions (CMD) with analog and digital 3D repositioning of condyles



## >> Innovative diagnostics and therapy

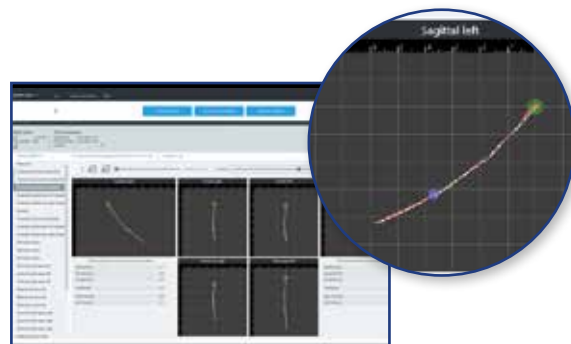
## >> Analog and digital implementation

>> Freecorder®BlueFox is an optoelectronic registration device to record the patient-specific jaw movement and the individual jaw position. The movement data and position data can be integrated in XML format into the - analog or digital - workflow.



### Application in analog processes

>> The software generates the set values in a technical data sheet used to program Arcon articulators and the FastLink® assembly table individually, which ensures the transfer of models in relation to the hinge axis.



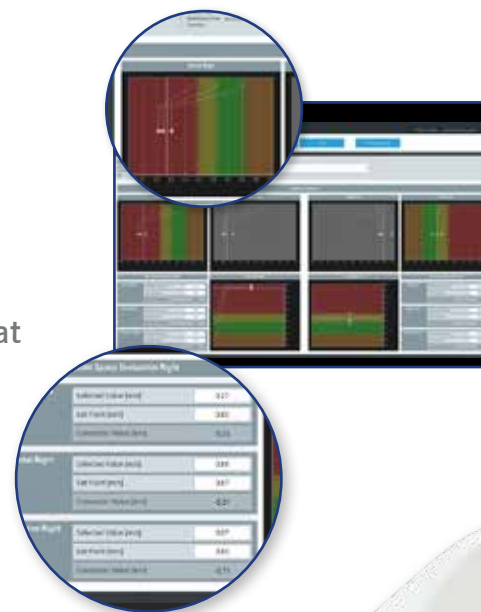
### The new OpTra®Dent software...

- >> ...combines a modern and attractive appearance with an intuitively operable user interface,
- >> ...stands out due to its simplified patient management,
- >> ...enables the generation of individual measuring reports and
- >> ...enables data export and import.



### Radiation-free

>> The 4D video recording device measures by means of LED, therefore radiation is not required.



### Joint space analysis

>> The visualization of 3D joint spaces and their therapeutic correction under screen control navigated in realtime open up new dimensions in diagnostics and therapy.



### "Digilog"

>> Movement and position data can be used in analog and digital workflows.



### High precision

>> Precise capturing of fast movements including jaw joint clicking due to the high recording speed of 100 (!) images per second.



### Comfortable

- >> The ultralight carbon reference bow is fitted quickly and easily like an eyeglass frame.
- >> The light weight prevents neuromuscular perturbations and thus biased measurement results.



### Accurately fitting

>> The Computer-Assisted Repositioner (CAR) corrects possible errors in bite registration.



- >> Open interfaces for consistent workflow
- >> Visible benefits for doctors, laboratories and patients



### 3D X-RAY

>> orangedental 3D X-ray systems improve diagnosis, treatment planning and patient acceptance of your recommendations. These systems have excellent geometric precision and an open DICOM interface.



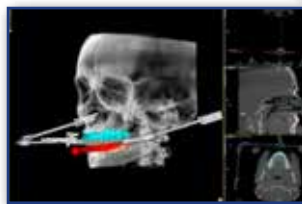
### MOTION CAPTURE

>> Freecorder®BlueFox digitally captures movement and position data of the mandible and the 3D geometry of the TM joint spaces. The XML data generated can be exported furthermore via an open interface.



### 3D MODEL SCAN

>> freeScan®Pro is an optical model scanner which enables the transfer of the anatomically correct dental occlusion into the 3D software in the form of STL data due to the open interface.



### byzz®nxt3D

>> The open interfaces of byzz®nxt3D enable the consolidation of i.a. DICOM and STL data as well as the export to open CAD/CAM systems and 3D printers.



### INTRAORAL SCANNER

>> The Condor intraoral scanner is precise, multi-colored and does not need powder. Its precision recording of all surfaces leads to better diagnosis and treatment. The STL data can be merged with other data via the open interface.



### CUSTOM-FIT PRODUCTS

- >> Prosthodontics
- >> Orthodontic splints
- >> CMD splints
- >> Drill templates
- >> Paraocclusal clamps

### OPEN INTERFACES

- >> CAD/CAM
- >> 3D print
- >> Laser sintering
- >> Milling
- >> Stereolithography





## >> Freecorder®BlueFox moves the users

## >> More benefit, quality and saved time



"Allowing for the individual jaw movement makes static occlusion dynamic. Freecorder®BlueFox thus enables me to manufacture accurately fitting dental prostheses in an efficient manner."

Jürgen Suerhoff, Master Dental Technician, Sternberg-Dental-Labor, Geseke



"Freecorder®BlueFox guarantees the anatomically and physiologically correct positioning of the condyles during and after orthodontic treatment. The optoelectronic measuring technology is optimal in particular for measuring children or pregnant women because they are not exposed to radiation."

Dr. med. dent. Volker Rummel, Orthodontist, Dortmund



"Many of my patients suffer from CMD. The possibility of measuring the temporomandibular joint spaces three-dimensionally and of repositioning the condyles by means of the OpTra®Dent software is a huge gain in the prophylaxis and treatment of CMD!"

Dr. med. dent. Susanne Graser, Dentist, Sarstedt



"So far, I have been using the Freecorder®BlueFox in analog processes. The possibility of integrating the device into the digital workflow provides for even more flexible applications and enhances its efficiency."

Dr. med. dent. Ralf Atrops, Dentist, Kleve



"The measurement sheets to record the movements are easily and quickly attached, which makes the measuring procedure stress-free for my patients. Using the NOA [individually printed non-occlusal attachment - note by DDI] additionally facilitates attaching the measuring kit."

Dr. med. dent. Daniel Lindel, Dentist, Waldenbuch



"The new OpTra®Dent software makes using the Freecorder®BlueFox even more simple and fast. Especially the technical data sheet created automatically on the basis of my measurements and exported by mouse click facilitates my work considerably."

Axel Röers, Master Dental Technician, KOFL Röers GmbH, Everswinkel



"The digital bite registration as well as allowing for the individual mandibular movements into consideration ensure perfect occlusion results. That saves my patients and me from time-consuming grinding works for dentures."

Chris van Dijk, Dentist, Everswinkel



**If you have any questions, please contact:**

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