

KaVo ARCUSdigma 3 Advantages at a glance

- Records temporomandibular joint (TMJ) movements quickly
- Assists in the effortless design and development of simple and complex dental prosthesis
- Fast and precise articulator programming
- Direct implementation of temporomandibular joint [TMJ] movements in CAD applications
- Measurements for in-depth temporomandibular joint diagnostics
- Safety for the practitioner – even with major restorations



Scope of delivery and accessories

Scope of delivery (1.012.2320)

- Electronic face bow
- Lower jaw sensor
- Foot control
- C-arm
- Accessories
- Transport case
- Upper jaw bite fork for AD3 (5 pieces)
- Lower jaw attachment
- Bite fork adaptor
- KaVo ARCUSdigma 3 software suite including the software modules PROTARevo and jaw relation
- Licence for installation on up to three devices

Technical data

Features	Value
Face bow	
Face bow measurements	222 x 60 x 250 mm
Weight	208 g
Power supply	5V DC / 2.5W (USB for battery charging)
Max. imagery rate	60 Hz
Positional accuracy in the occlusal area	± 0.05 mm (x, y, z); ROM 15 mm
Connection socket	Push-Pull plug / Standard USB
PC interfaces	WLAN / USB
Operating system	Windows 10 (64 Bit)
Lower jaw sensor	
Measurements	67 x 15 x 45 mm
Weight	15 g
Battery life	Image recording: ~ 5 days Standby:- 17 months

Accessories

- Hardware**
 - 1.014.6305 Inductive charger
- Articulation**
 - 1.005.4121 PROTARevo Digma
 - 3.002.2682 Transfer table for upper jaw bite fork AD3
- Software module**
 - 1.014.6240 3D analysis and EPA
 - 1.014.6239 Support of external articulators
 - 1.014.6243 CSV export
 - 1.014.6242 Database configuration
 - 1.014.6241 Licence extension
- Software maintenance***
 - 1.013.7000 Software maintenance contract
 - 1.012.6666 Software update
- Consumables**
 - 3.002.6032 Upper jaw bite fork for AD3 (5 pieces)
 - 3.002.2846 Bite fork adaptor
 - 1.000.9291 Lower jaw attachment

* For details see special flyer "KaVo ARCUSdigma 3 Software Maintenance"

KaVo ARCUSdigma 3 Movement becomes knowledge



What is gnathological motion analysis needed for?

Prosthetics

- Assists technicians to significantly improve occlusal morphology by simulating patient jaw movements
- Fewer corrections needed in the mouth
- Less adjustments to the sensitive high-performance ceramic restorative materials

Time savings:

- Measurement takes less than five minutes
- Thanks to the integrated KaVo Transfer System (KTS), a face bow is no longer required
- Few corrections when placing restorations

Reliability of the process for the dental technician:

- The determined (KTS) values can be transferred to the articulator easily by the dental technician
- Simpler, easier process for checking the bite compared to the classic procedure with the help of dynamic wax registrations

Reliability of the process for the dentist:

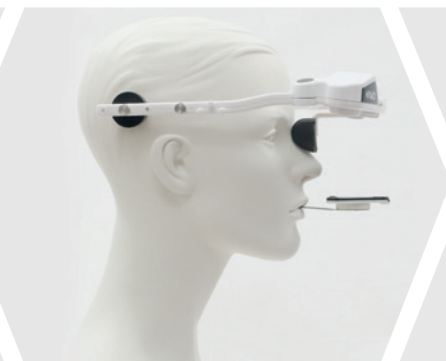
- Reproducible and verifiable determination of the patient's centric lower jaw position

Integration into digital workflows:

- Merging measured movements and digital models from intraoral or desktop scanners using a common interface in the Exocad software

Simplest data transfer (KaVo Transfer System)

Analogue workflow



Digital workflow



Thanks to the unique KaVo Transfer System (KTS for short), there is no need to use a face bow.

The upper jaw model is automatically placed in the centre of the KaVo PROTARevo articulator. The ARCUSdigma 3 software calculates the dynamic setting parameters for the position of the model in the PROTARevo articulator. Difficulties in positioning the model in the articulator, as can occur when using a face bow, are a thing of the past.

The ARCUSdigma software transfers the dynamic gnathological parameters to the patient casts in the articulator.

Alternatively, the movement data can be transferred directly to CAD software. With additional information obtained (e.g. chewing cycles), dentures can be designed with the highest precision in a digital workflow.

Alternatively, traditional transfer with a face bow via the arbitrary axis is still possible.



Software module overview

PROTARevo*

Quickly measures values for programming the articulator

Jaw relation*

Support in recording the jaw relation

Functional analysis

Analysis of movements of the lower jaw

EPA

Identification of certain positions, e.g. pain positions

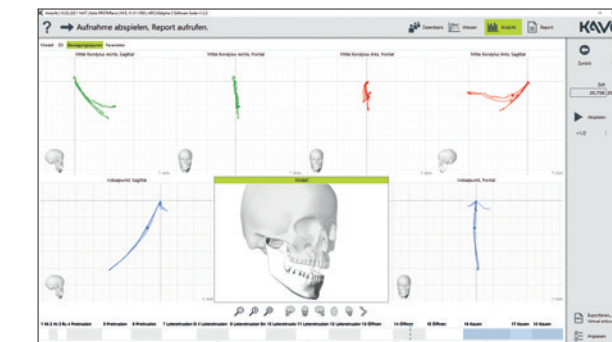
Other articulators

Programming values for Artex, Stratos and SAM articulators

* Included in the ARCUSdigma 3 scope of delivery by default

Diagnostics

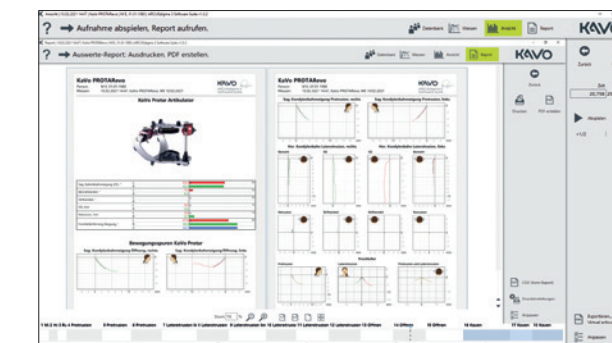
- Various software modules for in-depth diagnostics
- Ability to display different TMJ positions graphically and their comparison (software module EPA)
- Ability to display jaw movements graphically for diagnostic purposes
- Therapeutic results can be checked and documented by superimposing the measurements (software module functional diagnostics)



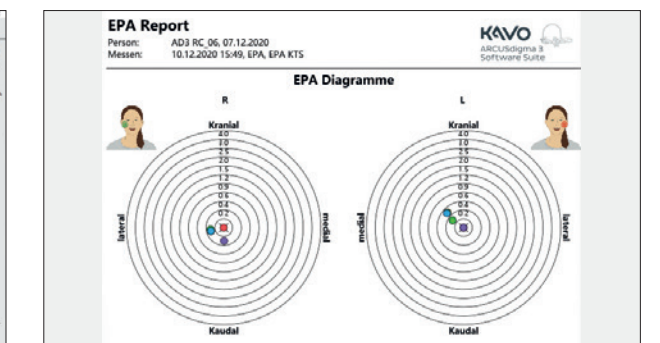
Traces of movement that can be used for diagnosis



Individual movement parameters compared to average values determined within a study



Data sheet with the movement parameters and the setting values determined from them



Graphic representation of the positions determined by the electronic position analysis (EPA)

Highlights

- Simple and time-saving operation through wireless data acquisition
- Increased measuring accuracy thanks to the optical measuring process
- Modular, retrofittable software concept - adaptable to your needs
- New upper jaw bite fork with markings: Suitable for connection to intraoral scanner and CAD software