

# Zfx™ Evolution plus+

The new digital plus



## New Design

Open and compact design enables open scan technology (unlimited) and thus offers easy accessibility

## 12 in 1 Multi-Die Scanning

For recording up to 12 dies in one single scan process

## Quick Scan

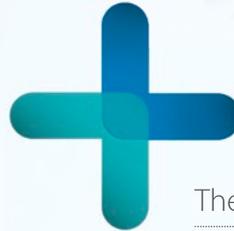
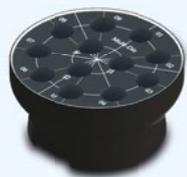
30% faster calculation time by optimization of image processing algorithms

## Ready for 3D Printing

Standardized stl-data which are compatible for additive manufacturing

## Full View

Larger field of view enables fast and precise scanning of large objects



The +Upgrade

## Color Camera

Impressive 2+1 camera technology with a high level of detail and color rendering

## Texture Mapping

Recognition of lines drawn, which are editable as cSpline (mathematical function) in the CAD Software



## Zfx™ Evolution plus+ accessories

### Zfx™ Scanbodies

Innovative code system, that enables the automatic recognition of the implant type and prevents application errors.



### Zfx™ Arti-Synchronizer

For an exact transfer of the model from the "real" to the "virtual" articulator. The module is available for different systems (original split-cast plates necessary).



## Zfx™ CAD Software

Zfx offers its own innovative scanner Zfx™ Evolution plus+ including CAD software, which can be incorporated into the laboratory without restricting flexibility. Numerous additional Zfx™ CAD Software Upgrades are available.

# A Symbiosis of High-Technology and Design: The „Zfx™ Evolution plus+“

NEW



A next-generation desktop scanner with many innovative features. The “Zfx™ Evolution plus+” is the successful symbiosis of functionality, precision and aesthetics.

The innovative “open scan technology” is the basis of the new design. The scanner operates without a door, offering proficiency through the open and compact architecture. The space requirement is small and the day-to-day work-flow is simplified. Like its’ predecessor, the “Zfx™ Evolution plus+” utilizes the proven stripe light technology. A total of 128 line pairs are projected with a LED light source on the surface of the object to be captured. The 2-axis system for rotating and swiveling movements, ensures that the twin cameras in the scanner (CCD sensors) record all surface points reliably. The scanning speed (“Quick Scan”) is also improved. Due to an optimization of the image processing algorithms, the computation time of the scanner has been reduced to 30 percent.

A forward-looking feature is the “Ready for 3D-Printing” tool. The scanner generates a standard stl file that is compatible with additive manufacturing. Furthermore, up to twelve individual dies can be captured and processed simultaneously through the “12-in-1 Multi-Die-Scanning” module that is included in the basic version. Additionally, the validated accuracy (less than 9 µm) has been enlarged to volume of 140 x 80 mm through sensor adjustment. Thanks to the substantially enlarged field-of-view and the enhanced scanning area, fewer records per scan are necessary. This so-called “Full Scan” improves not only the speed, but also the accuracy even with large cases. Time-consuming rescans are virtually eliminated.

## Zfx™ Evolution plus+ at a glance

- × *Open-Scan-Technology: open and compact architecture (without a door)*
- × *Stripe light technology: Projection on the surface of the object of 128 line pairs from an LED light source*
- × *2-axis system for rotating and swiveling movements*
- × *Record all surface points (CCD sensors)*
- × *Quick Scan: 30% faster scanning speed through optimization of image processing algorithms*
- × *Ready for 3D Printing: Compatible stl-data for additive manufacturing*
- × *Recording of 12 single segments (dies) at the same time*
- × *Measuring accuracy less than 9 µm in the solid! (Measurement according to the VDI test procedure)*
- × *Cylindrical scanning area: 140 x 80 mm*
- × *Quick, precise scanning of large objects*
- × *Color Camera: high resolution and realistic color reproduction (2+1 technology)*
- × *Texture Mapping: Recognition of lines drawn, which are editable as cSpline (mathematical function) in the CAD Software*
- × *Dimensions (W x H x D): 270 x 440 x 444 mm*
- × *Weight: 15 kg*

## The +Upgrade

For those who still wants more, the “Color Camera” – 2+1 technology offers high resolution and realistic color reproduction. The innovative “Texture Mapping” feature allows lines to be drawn on a model that are not only displayed visually, but can also be processed through the CAD software.



ZIMMER BIOMET



Further information on [www.zfx-dental.com](http://www.zfx-dental.com)