

# Perfect Vision

whitefox



SATELEC  
**ACTEON**

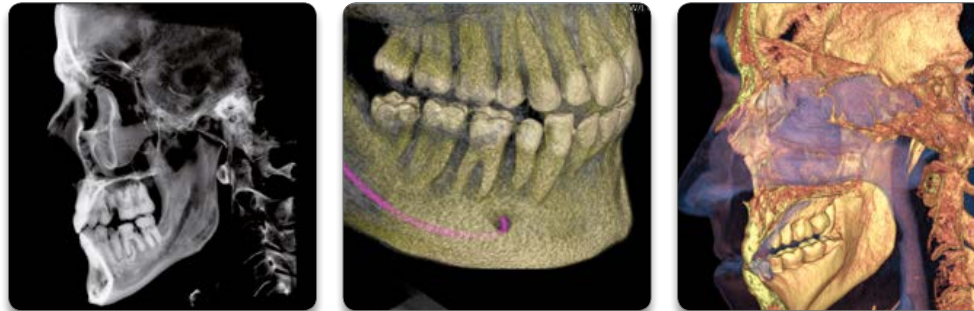


# Everything becomes clearer and simpler with a big F.O.V.

## The complete dentomaxillofacial volume ready for your diagnosis

One scan provides you with an incredible amount of information enabling the most comprehensive and accurate diagnosis

- Implantology planning
- Cephalometry
- Orthodontics and Gnathology
- TMJ analysis
- Oral and Maxillofacial surgery
- Endodontics
- Airway study
- Ear Nose and Throat
- Head and Neck



## Elegance that matches your standards

WhiteFox is not only an advanced technological product, it is also a statement of style and elegance in your clinic. It has been engineered to combine unrivalled rigidity and compactness. It's the perfect combination of style and substance.







whitefox

Elegant style  
with the comfort  
of the patient in mind



## WhiteFox versions

WhiteFox comes in a complete package specializing in Dental and Maxillofacial clinical applications.

When the ENT Pack is added, WhiteFox expands its diagnosis possibilities to Head, Neck, and ENT acquisitions.

The workstation is always included with “all inclusive” software. No need to buy additional options. Furthermore, four extra licenses come with WhiteFox for network installation on other computers in the clinic.

## The patient’s comfort shows on the final images

Putting the patient in a calm and relaxed environment will lead to fewer movements during acquisition and therefore a better image.

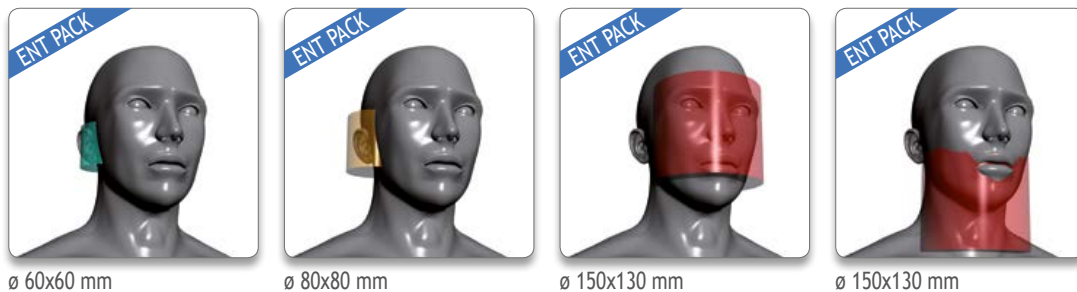
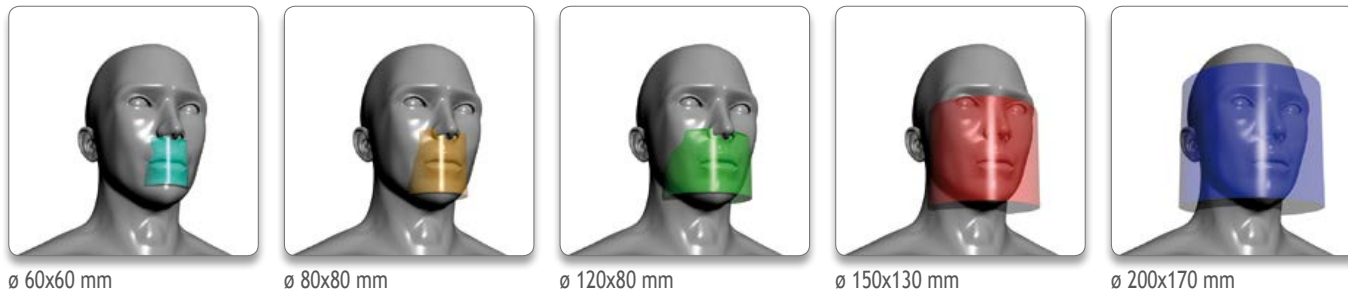
You only need to make limited precision settings with the aid of the laser positioning beams and high resolution micro-step movements.

The face-to-face positioning enables you to reassure the patient with a smile and talk him/her through examination.

## Make your selection and it will be over before your patient notices

The F.O.V. and quality selection are made directly on the computer and final positioning can be checked with a scout view.

The need for repeated scans for the same patient is eliminated.

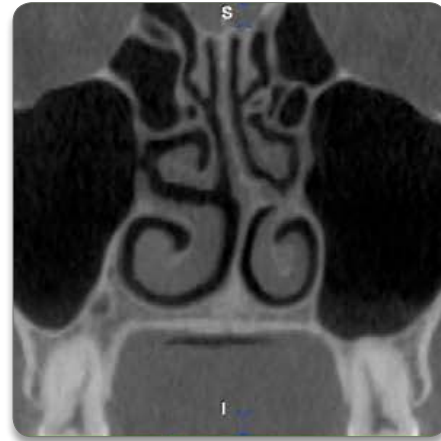
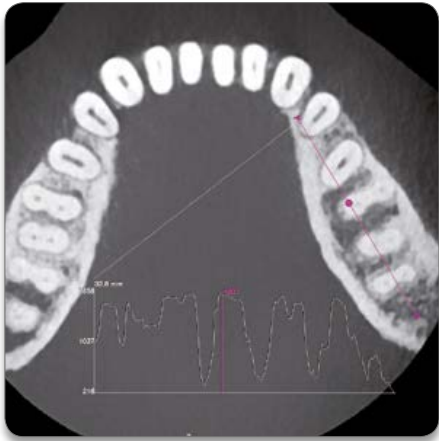




You need an image that you can rely on.  
We provide it with the most complete software package.

### Hounsfield units calibration

Commonly used on medical CAT scans, this is a unique WhiteFox feature for the dental CBCT. Hounsfield Units express the detected radiosity in the standardized CT scale. The data of pre and post surgery analysis can be compared because they rely on the same calibration method. This is visible directly on the image:



→ Only with WhiteFox, can you obtain a reliable estimation of the bone quality and decide if immediate loading is a safe option for your patient.

→ Clearer soft and hard tissue segmentation. Less blurred transitions between bone and soft tissues. Exporting surfaces for surgery guides is faster and easier than ever and the result is neat and clean.

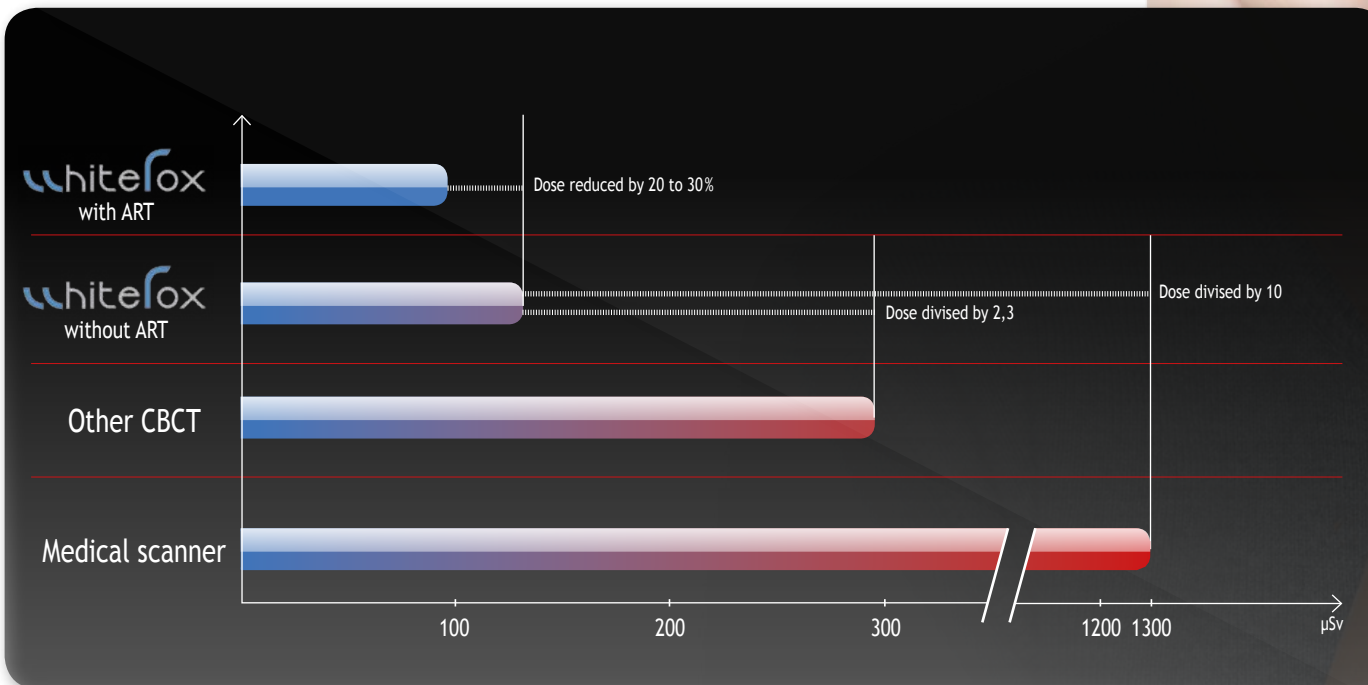
→ Clear air differentiation. Airways will always be clearly visible from surrounding anatomical structures.

## Algebraic Reconstruction Technique

By reducing the needed quantity of radio projections by a third, ART allows for a 20 to 30% dose reduction to the patient. At the cutting edge of mathematical and programming technology, ART utilizes the maximum processing power of the workstation to provide an unrivaled image quality.

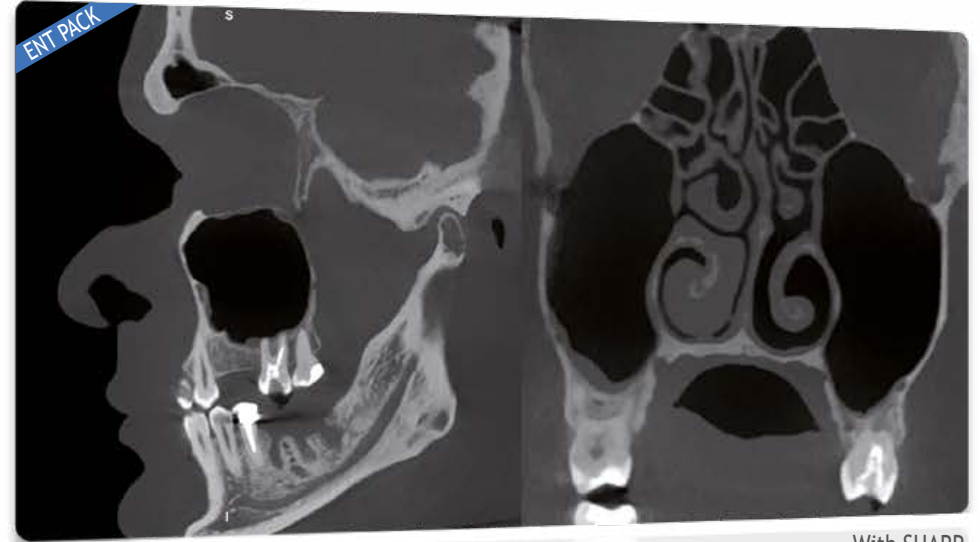
## Minimal dose for the patient

Thanks to the pulsed mode acquisition, the selectable F.O.V., the patient receives a minimal dose for optimal image quality.





Without SHARP



With SHARP

## SHARP™

This novel filtering method stands for Spatial High Amplitude Re-Processing. SHARP reduces streak artifacts and noise levels. The result is a clear, crisp image especially at the boundaries of the HU scale in areas such as airways and bones.





Without STAR



STAR™

The Spatial Technique for Artifact Reduction is perfect for acquisitions with patients that have large crowns or multiple implants. The metal artifacts disappear to allow a clear reading of the image.



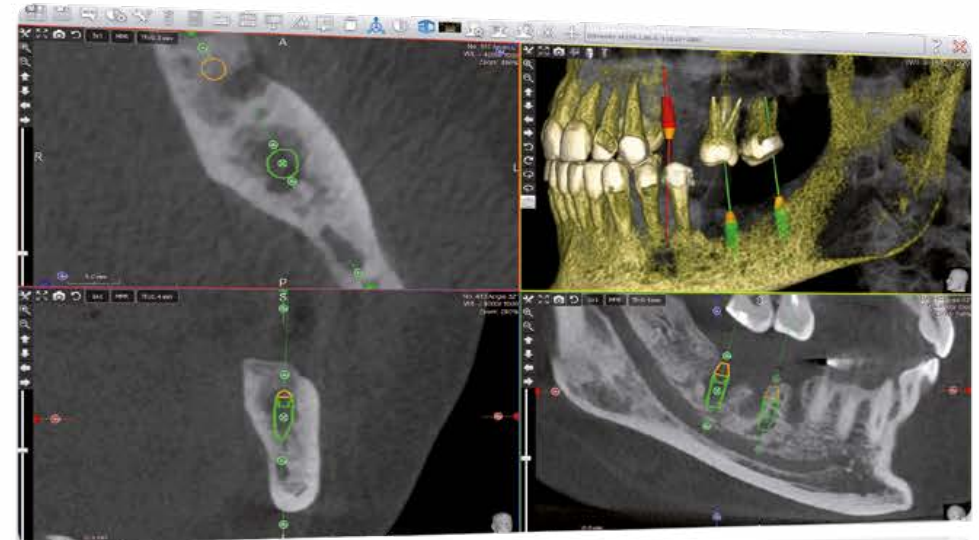
With STAR





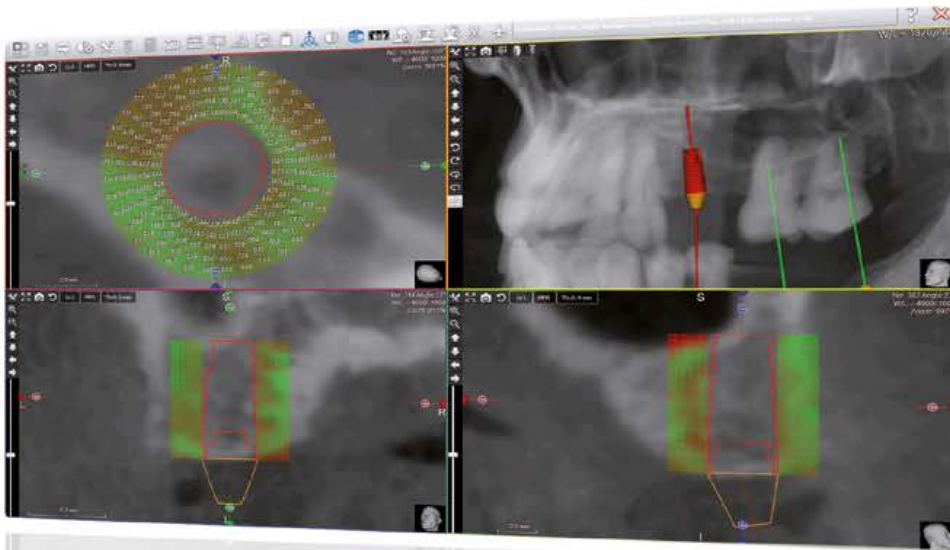
## 1. NERVE TRACKING

Locating and tracing precisely the nerve canals is the first step in the implant planning procedure and enables a clear identification of the surgery needed.



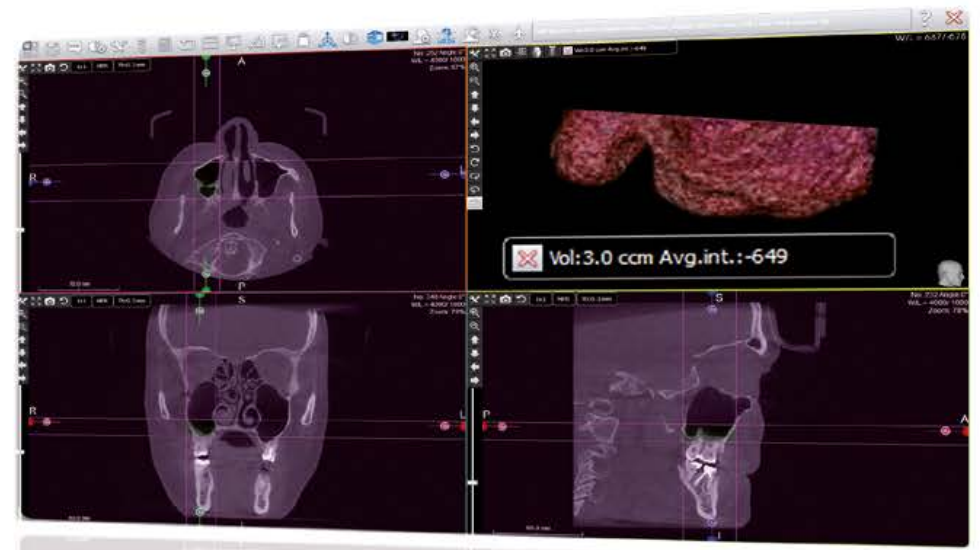
## 2. IMPLANT PLANNING

Implant planning is so intuitive and fast that you can explain to your patient the forthcoming surgery immediately after the acquisition. This simulation will impress your patient and maximise the chance that they will accept the surgery. The WhiteFox system brings you the highest level of accuracy so that patient safety is always guaranteed.



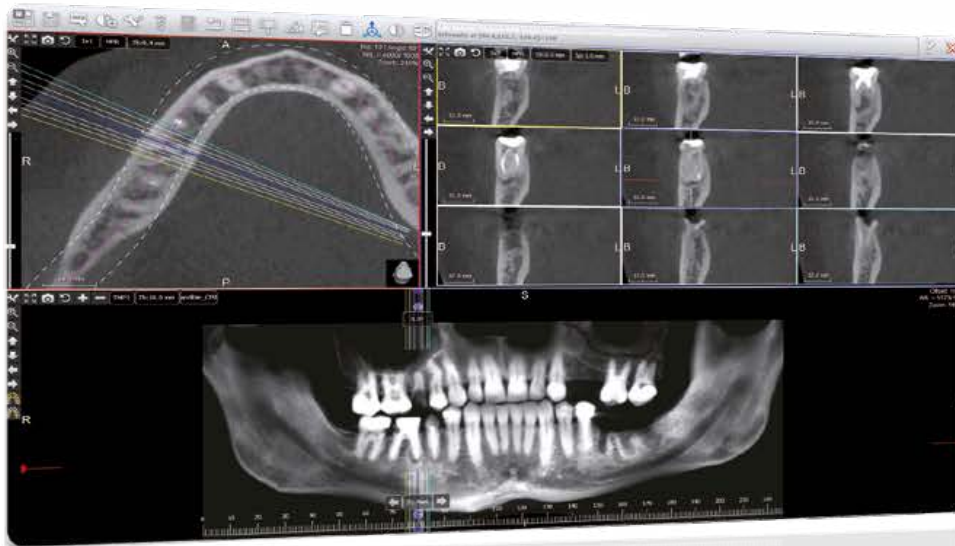
### 3. BONE DENSITY CHECK

You have the most accurate information regarding bone quality where you plan the implant to be before the operation. You will know where the dense bone is located and where the zones to avoid are. You can predict immediate loading safely without even touching your instruments.



### 4. SINUS LIFT BIOMATERIAL VOLUME CALCULATION

Implant planning is so intuitive and fast that you can explain to your patient WhiteFox Imaging software offers various measuring tools such as distance, surface and angle measurement but certainly the most advanced one is the volume calculation tool that calculates the volume of biomaterial needed for sinus lift surgery.



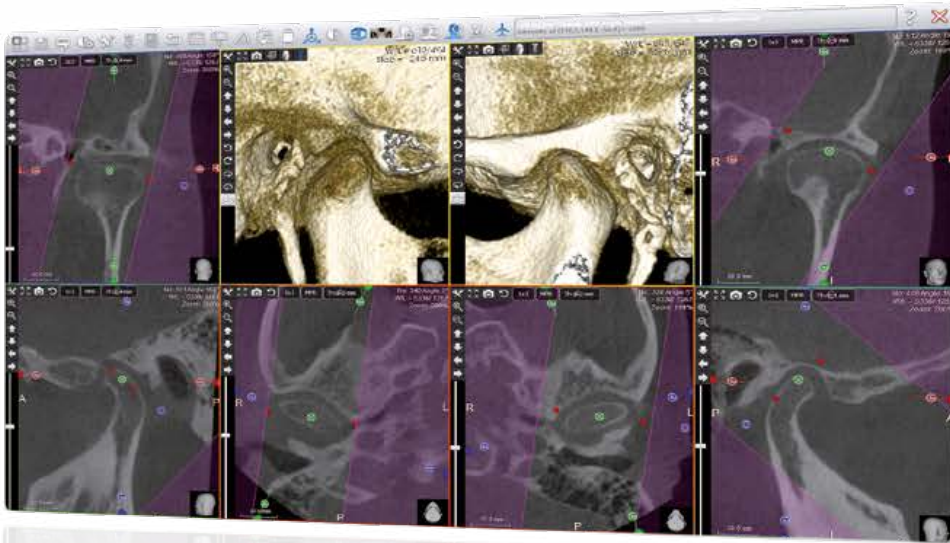
## 5. RECONSTRUCTED PANORAMIC

Discover the new panoramic image. Select the depth, width and height of the panoramic view and move dynamically through it. Avoid obtrusive views of structures in the background of the image and image distortion.



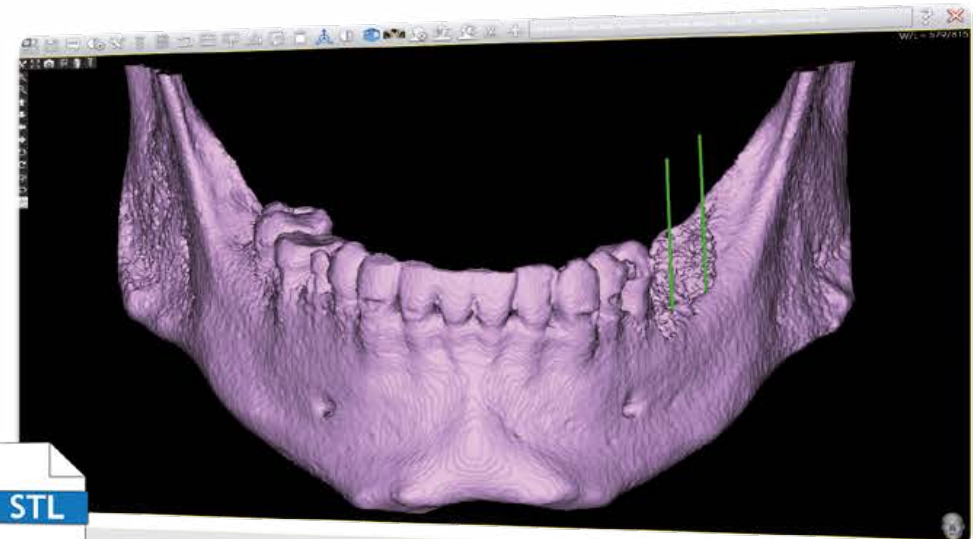
## 6. ORTHODONTICS

Thanks to its big F.O.V., WhiteFox can create a 2D radiographic image with a 1:1 ratio and no distortion and magnification for cephalometry analysis without any volume stitching.



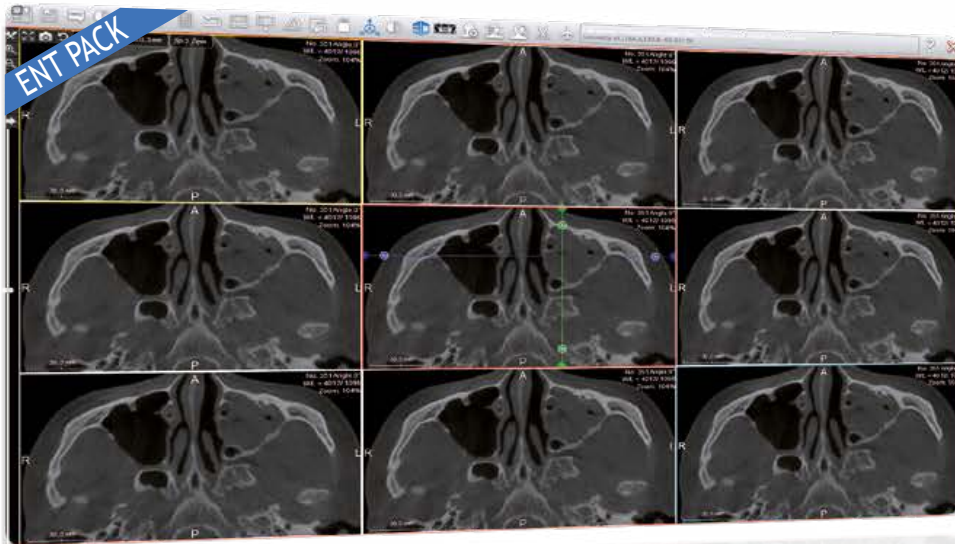
## 7. TMJ ANALYSIS

Both condyles are displayed at the same time. WhiteFox's clear differentiation between soft and hard tissues makes diagnosis of the condition of the temporo-mandibular joint sharper and clearer on cross-sections



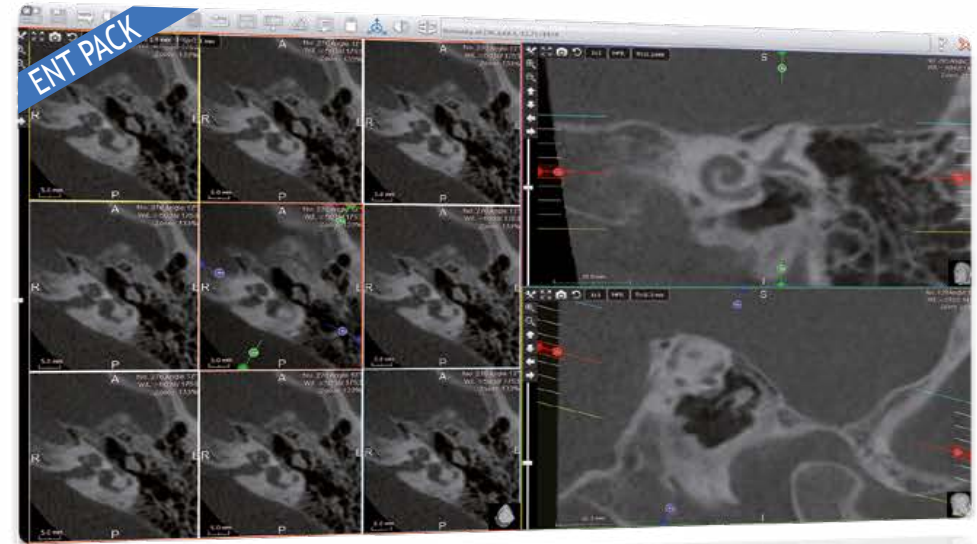
## 8. SURGICAL GUIDES EXPORT

Because the data from the acquisition is DICOM compatible, it can be exported to any surgical guide software. Furthermore, WhiteFox Imaging software can export selected surfaces with implant position data so that you have a fully open architecture.



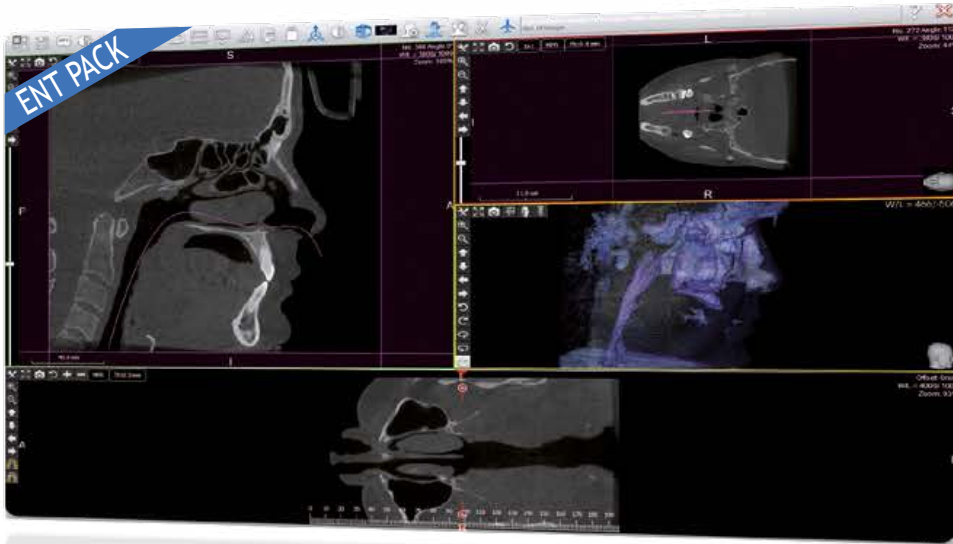
## 9. NOSE AND SINUSES STUDIES

WhiteFox provides you improved images compared to CT exam but with a tenth of dose. This makes it the perfect tool for pediatric radiology and patients that require multiple scans for treatment or pathology follow up.



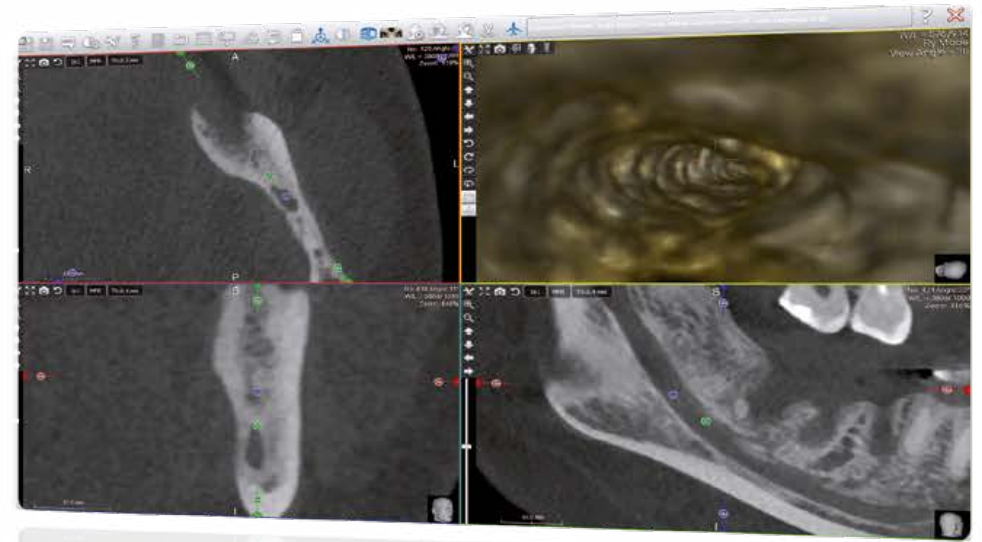
## 10. EAR AND TEMPORAL BONE STUDIES

The Ø 80 x 80 mm F.O.V., with a voxel of 100 µm provides a low dose / high definition image that will amaze you by its definition and clarity. At last a clear vision of the ossicular chain, the cochlea and the semicircular canals.



## 11. AIRWAY STUDY / THROAT

Analyze the airway by a virtual slice of it. Detect easily the area that needs to be measured in length or surface. Diagnose the Para nasal sinuses, sinus bones and sialogram, facial bones and nasal turbinate.



## 12. VIRTUAL ENDOSCOPE

Navigate through the airways or the mandibular nerve canal as with an endoscope. You will be amazed by the realism of the volume rendering of this non-intrusive method.



## Multiplatform

Both the Viewer and the Client version of WhiteFox imaging are available for MAC and PC.



## Printing and reporting

Thanks to predefined radiology report templates, your report is made with a few “drag and drops” of 3D images, reconstructions and cross-sections. You can then print it in a 1:1 scale on a DICOM or standard printer.



## Viewer

Share your patient case with referent doctors giving them all the functions they need with the free WhiteFox Imaging.

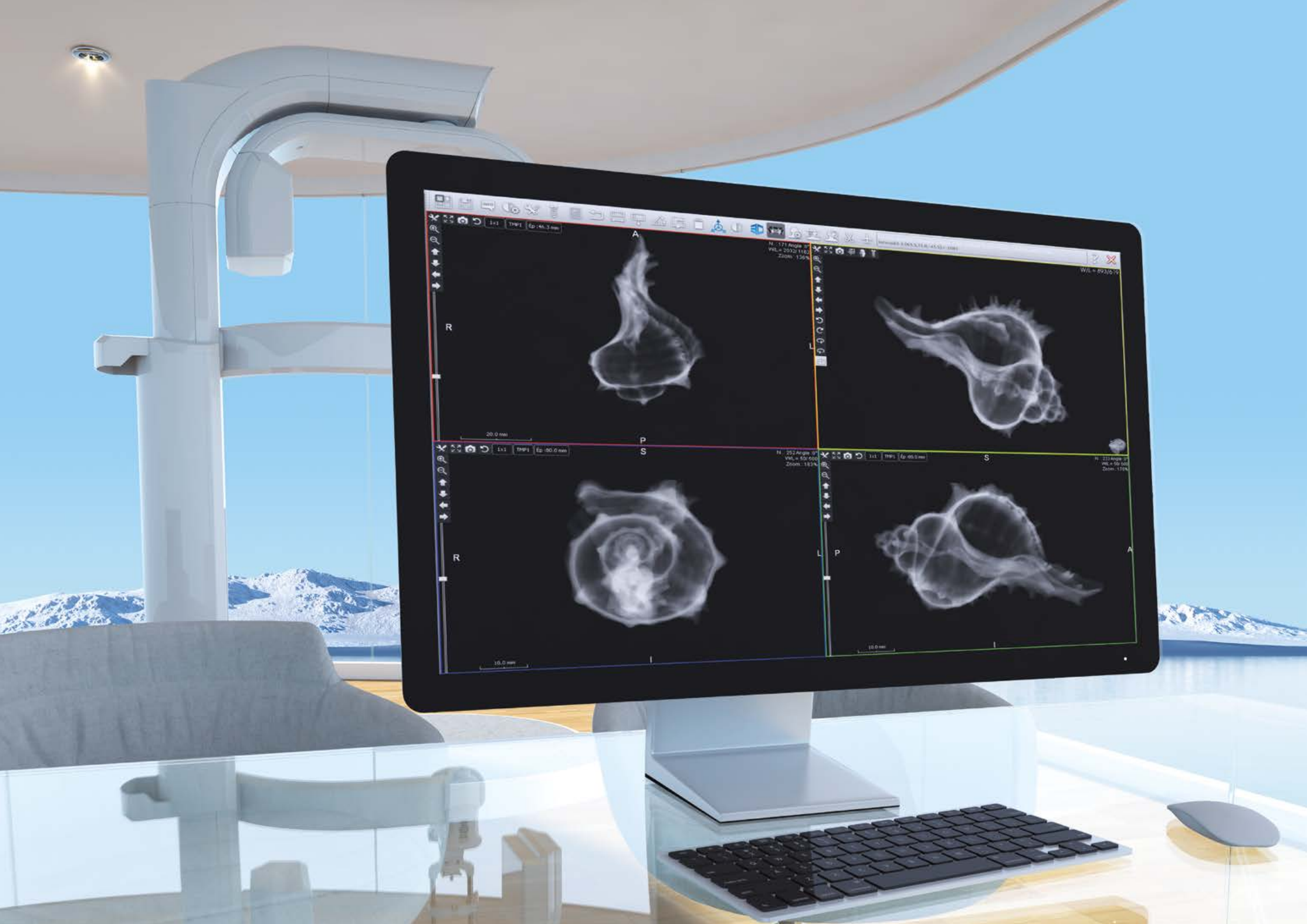
## Remote support

Instant remote support allows you to take control of the workstation, shows you how to perform a specific action with ease and upgrade your software suites.

## Completes and integrates your existing imaging systems

WhiteFox generates DICOM standard images so that they can be opened with other DICOM compatible software.







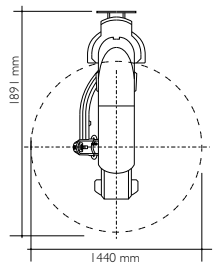
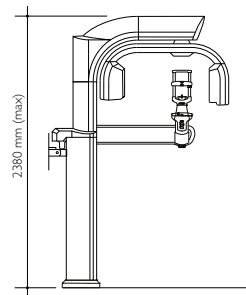
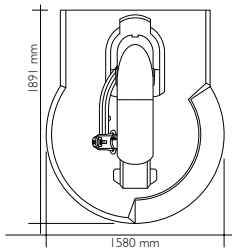
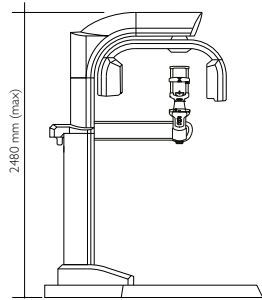


## Complete diagnostic in one visit

### Work more efficiently, maximise success

Having WhiteFox inside your clinic makes it possible in one visit, to have a comprehensive analysis of the surgery needed. Immediately after the acquisition you can explain to the patient the benefits of the necessary treatment and its cost.

The patient can make a decision without having to make another appointment in an external CT scan center.



## Technical specifications

### FIELDS OF VIEWS SIZE

.....	∅ 60 x 60 mm
.....	∅ 80 x 80 mm
.....	□ 120 x 80 mm
.....	∅ 150 x 130 mm
.....	∅ 200 x 170 mm

### SCANNING PARAMETERS

Voxel size.....	100 to 300 µm
Voxel type.....	Isotropic
Scanning time .....	18 to 27 s
X-ray exposure time .....	6 to 9 s
Reconstruction time .....	30 s

### FLAT PANEL DETECTOR

Type .....	Amorphous silicon
Pixel size .....	0.127 mm
Active Area.....	195 mm x 244 mm

### X-RAY TUBE SPECIFICATIONS

Focal spot .....	0.5 x 0.5 mm
Target angle .....	15°
Tube Voltage .....	105 kV (100 kV RQT8)
Anodic Current .....	6 to 10 mA

### WORKSTATION FEATURES

Processor .....	Intel Xeon
Hard Disk .....	1 TB
Graphic Processor unit .....	2 NVidia cards
Memory .....	8 GB

### SOFTWARE

Control Software .....	WhiteFox Control
Primary reconstruction.....	FDK or ART
Visualization and diagnosis .....	WhiteFox Imaging
Compatibility .....	DICOM3, STL

### GENERAL

Classification.....	Class 1, type B
Mains.....	200 - 230 V or 100-115 V, 50/60 Hz
Weight Wall mounted version .....	240 kg
Weight self-standing version .....	275 kg