In investigating an implant site, a surgeon requires information on bone volume and quality, topography and the relationship to important anatomical structures, such as nerves, vessels, roots, nasal floor, and sinus cavities.

Some form of cross-sectional imaging is used for implant cases and that conventional cross-sectional tomography is the method of choice for gaining this information for most patients requiring implants.


The Optimum & Realistic Solution for Implantologists

**3in1 System** provides all types of image for accurate diagnosis

- Digital Panoramic
- One-shot cephalometric
- ECT

**FOV 5X5cm, the optimum size for implantology**

Unlike the costly, full dental CT, which produces massive files; Uni3D has an ideal file data size with its optimum FOV size and an affordable price.

**Short scan time, scans the target area only in 8 seconds**

El3D acquires 18–30 frames per second. The scan time is extremely short, but the data is sufficient. It is easy to use the system, as the scanning procedure is the same as a panoramic scan.

PaX-Uni3D
The new technological standard for dental digital imaging.
Economical CT Provides Efficient and Accurate Diagnosis for a Successful Treatment

**The Optimum Size of Cross-Sectional Image for Implantology**

**3D Image**  
Cross-sectional

**PaX-Uni3D**  
The Practical and Convenient System

After scan - same as CT

Image reconstruction is identical to that of a dental CT. PaX-Uni3D uses image reconstruction algorithm identical to a dental CT. An area sensor is adopted as the detector, which provides you with a 3D rendered image.

**Automatic sensor switching**

ECT sensor  
Panoramic sensor  
Automatic sensor switching between Panoramic and ECT

**Ez3D - accurate and exact**

Convenient diagnosis and treatment plan simulation

The range of slicing thickness is 0.186–10-mm. You can view coronal, sagittal, and axial images together with the panoramic image in one viewer. The exact measurements and implant simulation functions are highly useful for an accurate treatment plan.

**SCOUT View - convenient & time saving**

SCOUT View (Optional)

You can use "SCOUT viewer", a special software program which helps position the patient before scanning without an impression material. The patient does not have to wait around 10 minutes or more.
The most Advanced Cephalometric System for Orthodontic Specialists

One Shot Cephalometric System

- **Exposure time**: 0.3 seconds
  - No image distortion / No motion artifact with reduced x-ray exposure time

- **Reduced X-ray exposure dose**
  - Significant reduction of X-ray exposure dose

- **High sensitivity**
  - Adopted an area sensor with twice as much sensitivity as a film receptor.
  - This enables orthodontic specialists to have the best images never had before.

**FPXD for Orthodontic Specialists**

- Flat Panel X-ray Detector (FPXD) co-developed by VATECH & SAMSUNG Electronics
- FPD is the ideal combination of VATECH’s X-ray detector technology and SAMSUNG’s TFT technology

PaX-Uni3D

A Dream come true of orthodontist
- Fantastic Image Quality, Covering the entire head
- **X-ray Exposure Time**: 0.3sec
- Active Area of Flat Panel Detector:
  - 24.4cm X 32.5cm (Diagonal: 41.9cm)
This is the real technology.

New Imaging System with New Technologies

- **ALC (Adaptive Layer Control) Technology**
  - Eliminates blurred images of the incisor and molar
  - Special scanning modes of Incisor / Mandibular canal / Upper molar

- **AOP (Automatic Optimizing Process) Technology**
  - Automatic optimization of the acquired image for accurate diagnosis

- **ASS (Automatic Sensor Switching) Technology**
  - Switching technology for panorama & ECT sensor

- **SRT (Short Reconstruction Time) technology**
  - Advanced technology for significant reduction of reconstruction time

The Functions for Precise Image Capture

- **3 Positioning Beams**
  - Horizontal beam for Frankfort plane
  - Vertical beam for mid Sagittal plane
  - Canine beam for Coronal plane

- **Wheel Chair Accessible**
  - Considerably designed for a patient on a wheel chair and a disabled patient

- **Variable Column Height**
  - Can be installed at anywhere without limit of ceiling

- **Automatic motor controlled chinrest**
- **Embedded camera for patient positioning**
- **LCD control panel**

**FOV 5x5cm**

The optimum size for Implantology

Unlike the costly, full dental CT, which produces massive files; Uni3D has an ideal file data size with its optimum FOV size and an affordable price.
Specialized Viewer for Diagnosis and Surgery - "Ez3D"

**Ez3D**

The sectional analysis through axial, coronal, and sagittal views from different angles provides all kinds of information for implant specialists before and after surgery.

### Implant Simulation

You can enjoy the measuring and simulation functions to check the exact width of lingual/buccal, the additional alveolar bone’s existence, the location of the mandibular canal, etc. This function provides you with sufficient information for the exact location of the implant fixture and helps you to have much better communication with the patient before treatment.

### Bone Density Profile

Ez3D provides bone density profile. Instead of the outdated grayscale method, Ez3D supports you with graphic method.

### Measuring Function

Ez3D Viewer provides the measuring function for checking the precise actual length and width. This is absolutely crucial for implant planning and surgery.

### Import Function (for Panoramic Image)

The cross-sectional images with panoramic image help you make exact diagnosis and support convenient consultation with patients.

### Image Enhancement Function

Ez3D provides various image enhancement functions such as sharpness adjustment, brightness control, contrast adjustment, inverting, etc. You can find hidden bones and nerve structures which are very important in clinical anatomy.

### Save & Print Function

Ez3D provides versatile capturing and saving functions. The print function in Ez3D provides paper-visual report according to your preference.

### 3D Rendered Image

Ez3D provides 3D rendered image which is not applied in existing tomography. 3D image helps you move the axes to check the cross-sectional and longitudinal images.
Integrated Program for Diagnosis and Communication with Patient - EasyDent 4.0

EasyDent

“EasyDent” is easy to learn and convenient to use. It is a kind of communication tool for the patient. In addition, all kinds of image formats can be supported (bmp, jpg, tif, dcm & etc). This program can easily be connected with other softwares such as clinical management software.

Specifications for Ez3D

<table>
<thead>
<tr>
<th>Model</th>
<th>Pano</th>
<th>Ceph</th>
<th>ECT</th>
<th>Upgradable</th>
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<tbody>
<tr>
<td>PAX-UnHID Basic</td>
<td>†</td>
<td>✓</td>
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<tr>
<td>PAX-UnHID Basic OS</td>
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<thead>
<tr>
<th>Specifications of Panoramic &amp; Cephalometric</th>
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</thead>
<tbody>
<tr>
<td>Panoramic</td>
</tr>
<tr>
<td>Focal Spot</td>
</tr>
<tr>
<td>Data Bit</td>
</tr>
<tr>
<td>Exposure Time</td>
</tr>
<tr>
<td>Power</td>
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<tr>
<td>Tube Voltage</td>
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Specifications of ECT (Economical CT)

<table>
<thead>
<tr>
<th>Item</th>
<th>Main Characteristics</th>
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<tbody>
<tr>
<td>X-ray Beam</td>
<td>Cone beam</td>
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<tr>
<td>Data bit</td>
<td>16 bit</td>
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<tr>
<td>Slice Thickness (mm)</td>
<td>0.18G ~10 mm (default 1.5mm)</td>
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<tr>
<td>Scan Time (sec)</td>
<td>20 sec / 8.5 sec</td>
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<tr>
<td>Patient Alignment</td>
<td>Align based on Standard Data of Focal trough, Optional Align with Scout View</td>
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<tr>
<td>FOV (W X H)</td>
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<td>Reconstruction Time</td>
<td>Under 1 min</td>
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<tr>
<td>Basic Display View</td>
<td>Longitudinal / Cross Sectional / Axial / Coronal / Sagittal</td>
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<tr>
<td>Reference Panor View</td>
<td>Support</td>
</tr>
<tr>
<td>3D image</td>
<td>Default</td>
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</tbody>
</table>

*The specifications are subject to change without prior notice.*