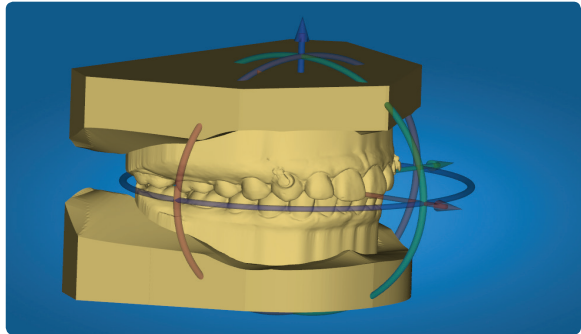


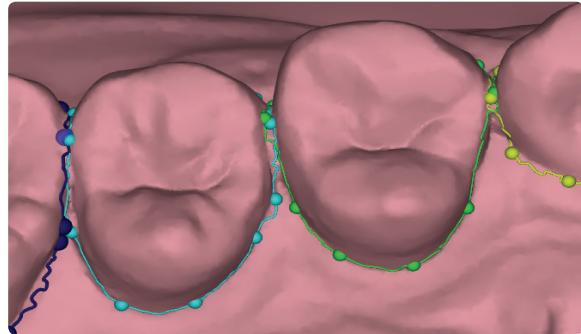
Main Function

+ Study Model Creation



- Provide base creation function of study model for neat consultation with patients.

+ Margin Line



- Reduces work time by forming margin lines of teeth quickly and accurately.

+ Center of Rotation



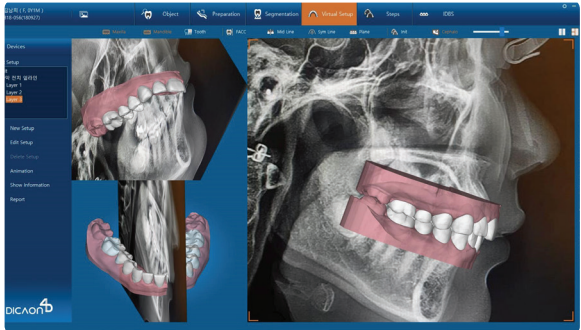
- Improved setup quality with sophisticated tooth axis setting and rotation center setting.

+ Angle Distance Table

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|------|------|------|------|------|------|------|------|------|-------|
| 1 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.09 | 0.08 | 0.10 | 0.11 | 0.12 |
| 2 | 0.03 | 0.05 | 0.07 | 0.10 | 0.12 | 0.14 | 0.16 | 0.17 | 0.18 | 0.21 |
| 3 | 0.04 | 0.06 | 0.10 | 0.13 | 0.16 | 0.21 | 0.24 | 0.26 | 0.31 | 0.37 |
| 4 | 0.06 | 0.10 | 0.17 | 0.24 | 0.31 | 0.38 | 0.42 | 0.46 | 0.51 | 0.57 |
| 5 | 0.08 | 0.12 | 0.21 | 0.28 | 0.34 | 0.40 | 0.44 | 0.48 | 0.52 | 0.61 |
| 6 | 0.10 | 0.16 | 0.25 | 0.33 | 0.37 | 0.42 | 0.47 | 0.51 | 0.55 | 0.70 |
| 7 | 0.12 | 0.18 | 0.29 | 0.37 | 0.41 | 0.46 | 0.50 | 0.54 | 0.58 | 0.81 |
| 8 | 0.14 | 0.21 | 0.33 | 0.41 | 0.45 | 0.49 | 0.53 | 0.56 | 0.59 | 0.90 |
| 9 | 0.16 | 0.23 | 0.35 | 0.43 | 0.47 | 0.51 | 0.54 | 0.57 | 0.60 | 1.00 |
| 10 | 0.18 | 0.26 | 0.38 | 0.46 | 0.50 | 0.54 | 0.57 | 0.60 | 0.63 | 1.10 |
| 11 | 0.21 | 0.31 | 0.42 | 0.50 | 0.53 | 0.56 | 0.59 | 0.62 | 0.64 | 1.20 |
| 12 | 0.23 | 0.34 | 0.45 | 0.53 | 0.56 | 0.59 | 0.62 | 0.64 | 0.66 | 1.30 |
| 13 | 0.25 | 0.36 | 0.47 | 0.55 | 0.58 | 0.61 | 0.63 | 0.65 | 0.67 | 1.40 |
| 14 | 0.27 | 0.38 | 0.49 | 0.57 | 0.60 | 0.62 | 0.64 | 0.66 | 0.68 | 1.50 |
| 15 | 0.29 | 0.40 | 0.51 | 0.59 | 0.62 | 0.64 | 0.66 | 0.68 | 0.70 | 1.60 |
| 16 | 0.31 | 0.42 | 0.53 | 0.61 | 0.64 | 0.66 | 0.68 | 0.70 | 0.72 | 1.70 |
| 17 | 0.33 | 0.44 | 0.55 | 0.63 | 0.66 | 0.68 | 0.70 | 0.72 | 0.74 | 1.80 |
| 18 | 0.35 | 0.46 | 0.57 | 0.65 | 0.68 | 0.70 | 0.72 | 0.74 | 0.76 | 1.90 |
| 19 | 0.37 | 0.48 | 0.59 | 0.67 | 0.70 | 0.72 | 0.74 | 0.76 | 0.78 | 2.00 |
| 20 | 0.39 | 0.50 | 0.61 | 0.69 | 0.72 | 0.74 | 0.76 | 0.78 | 0.80 | 2.10 |
| 21 | 0.41 | 0.52 | 0.63 | 0.71 | 0.74 | 0.76 | 0.78 | 0.80 | 0.82 | 2.20 |
| 22 | 0.43 | 0.54 | 0.65 | 0.73 | 0.76 | 0.78 | 0.80 | 0.82 | 0.84 | 2.30 |
| 23 | 0.45 | 0.56 | 0.67 | 0.75 | 0.78 | 0.80 | 0.82 | 0.84 | 0.86 | 2.40 |
| 24 | 0.47 | 0.58 | 0.69 | 0.77 | 0.80 | 0.82 | 0.84 | 0.86 | 0.88 | 2.50 |
| 25 | 0.49 | 0.60 | 0.71 | 0.79 | 0.82 | 0.84 | 0.86 | 0.88 | 0.90 | 2.60 |
| 26 | 0.51 | 0.62 | 0.73 | 0.81 | 0.84 | 0.86 | 0.88 | 0.90 | 0.92 | 2.70 |
| 27 | 0.53 | 0.64 | 0.75 | 0.83 | 0.86 | 0.88 | 0.90 | 0.92 | 0.94 | 2.80 |
| 28 | 0.55 | 0.66 | 0.77 | 0.85 | 0.88 | 0.90 | 0.92 | 0.94 | 0.96 | 2.90 |
| 29 | 0.57 | 0.68 | 0.79 | 0.87 | 0.90 | 0.92 | 0.94 | 0.96 | 0.98 | 3.00 |
| 30 | 0.59 | 0.70 | 0.81 | 0.89 | 0.92 | 0.94 | 0.96 | 0.98 | 1.00 | 3.10 |
| 31 | 0.61 | 0.72 | 0.83 | 0.91 | 0.94 | 0.96 | 0.98 | 1.00 | 1.02 | 3.20 |
| 32 | 0.63 | 0.74 | 0.85 | 0.93 | 0.96 | 0.98 | 1.00 | 1.02 | 1.04 | 3.30 |
| 33 | 0.65 | 0.76 | 0.87 | 0.95 | 0.98 | 1.00 | 1.02 | 1.04 | 1.06 | 3.40 |
| 34 | 0.67 | 0.78 | 0.89 | 0.97 | 1.00 | 1.02 | 1.04 | 1.06 | 1.08 | 3.50 |
| 35 | 0.69 | 0.80 | 0.91 | 1.00 | 1.02 | 1.04 | 1.06 | 1.08 | 1.10 | 3.60 |
| 36 | 0.71 | 0.82 | 0.93 | 1.02 | 1.04 | 1.06 | 1.08 | 1.10 | 1.12 | 3.70 |
| 37 | 0.73 | 0.84 | 0.95 | 1.04 | 1.06 | 1.08 | 1.10 | 1.12 | 1.14 | 3.80 |
| 38 | 0.75 | 0.86 | 0.97 | 1.06 | 1.08 | 1.10 | 1.12 | 1.14 | 1.16 | 3.90 |
| 39 | 0.77 | 0.88 | 0.99 | 1.08 | 1.10 | 1.12 | 1.14 | 1.16 | 1.18 | 4.00 |
| 40 | 0.79 | 0.90 | 1.01 | 1.10 | 1.12 | 1.14 | 1.16 | 1.18 | 1.20 | 4.10 |
| 41 | 0.81 | 0.92 | 1.03 | 1.12 | 1.14 | 1.16 | 1.18 | 1.20 | 1.22 | 4.20 |
| 42 | 0.83 | 0.94 | 1.05 | 1.14 | 1.16 | 1.18 | 1.20 | 1.22 | 1.24 | 4.30 |
| 43 | 0.85 | 0.96 | 1.07 | 1.16 | 1.18 | 1.20 | 1.22 | 1.24 | 1.26 | 4.40 |
| 44 | 0.87 | 0.98 | 1.09 | 1.18 | 1.20 | 1.22 | 1.24 | 1.26 | 1.28 | 4.50 |
| 45 | 0.89 | 1.00 | 1.11 | 1.20 | 1.22 | 1.24 | 1.26 | 1.28 | 1.30 | 4.60 |
| 46 | 0.91 | 1.02 | 1.13 | 1.22 | 1.24 | 1.26 | 1.28 | 1.30 | 1.32 | 4.70 |
| 47 | 0.93 | 1.04 | 1.15 | 1.24 | 1.26 | 1.28 | 1.30 | 1.32 | 1.34 | 4.80 |
| 48 | 0.95 | 1.06 | 1.17 | 1.26 | 1.28 | 1.30 | 1.32 | 1.34 | 1.36 | 4.90 |
| 49 | 0.97 | 1.08 | 1.19 | 1.28 | 1.30 | 1.32 | 1.34 | 1.36 | 1.38 | 5.00 |
| 50 | 0.99 | 1.10 | 1.21 | 1.30 | 1.32 | 1.34 | 1.36 | 1.38 | 1.40 | 5.10 |
| 51 | 1.01 | 1.12 | 1.23 | 1.32 | 1.34 | 1.36 | 1.38 | 1.40 | 1.42 | 5.20 |
| 52 | 1.03 | 1.14 | 1.25 | 1.34 | 1.36 | 1.38 | 1.40 | 1.42 | 1.44 | 5.30 |
| 53 | 1.05 | 1.16 | 1.27 | 1.36 | 1.38 | 1.40 | 1.42 | 1.44 | 1.46 | 5.40 |
| 54 | 1.07 | 1.18 | 1.29 | 1.38 | 1.40 | 1.42 | 1.44 | 1.46 | 1.48 | 5.50 |
| 55 | 1.09 | 1.20 | 1.31 | 1.40 | 1.42 | 1.44 | 1.46 | 1.48 | 1.50 | 5.60 |
| 56 | 1.11 | 1.22 | 1.33 | 1.42 | 1.44 | 1.46 | 1.48 | 1.50 | 1.52 | 5.70 |
| 57 | 1.13 | 1.24 | 1.35 | 1.44 | 1.46 | 1.48 | 1.50 | 1.52 | 1.54 | 5.80 |
| 58 | 1.15 | 1.26 | 1.37 | 1.46 | 1.48 | 1.50 | 1.52 | 1.54 | 1.56 | 5.90 |
| 59 | 1.17 | 1.28 | 1.39 | 1.48 | 1.50 | 1.52 | 1.54 | 1.56 | 1.58 | 6.00 |
| 60 | 1.19 | 1.30 | 1.41 | 1.50 | 1.52 | 1.54 | 1.56 | 1.58 | 1.60 | 6.10 |
| 61 | 1.21 | 1.32 | 1.43 | 1.52 | 1.54 | 1.56 | 1.58 | 1.60 | 1.62 | 6.20 |
| 62 | 1.23 | 1.34 | 1.45 | 1.54 | 1.56 | 1.58 | 1.60 | 1.62 | 1.64 | 6.30 |
| 63 | 1.25 | 1.36 | 1.47 | 1.56 | 1.58 | 1.60 | 1.62 | 1.64 | 1.66 | 6.40 |
| 64 | 1.27 | 1.38 | 1.49 | 1.58 | 1.60 | 1.62 | 1.64 | 1.66 | 1.68 | 6.50 |
| 65 | 1.29 | 1.40 | 1.51 | 1.60 | 1.62 | 1.64 | 1.66 | 1.68 | 1.70 | 6.60 |
| 66 | 1.31 | 1.42 | 1.53 | 1.62 | 1.64 | 1.66 | 1.68 | 1.70 | 1.72 | 6.70 |
| 67 | 1.33 | 1.44 | 1.55 | 1.64 | 1.66 | 1.68 | 1.70 | 1.72 | 1.74 | 6.80 |
| 68 | 1.35 | 1.46 | 1.57 | 1.66 | 1.68 | 1.70 | 1.72 | 1.74 | 1.76 | 6.90 |
| 69 | 1.37 | 1.48 | 1.59 | 1.68 | 1.70 | 1.72 | 1.74 | 1.76 | 1.78 | 7.00 |
| 70 | 1.39 | 1.50 | 1.61 | 1.70 | 1.72 | 1.74 | 1.76 | 1.78 | 1.80 | 7.10 |
| 71 | 1.41 | 1.52 | 1.63 | 1.72 | 1.74 | 1.76 | 1.78 | 1.80 | 1.82 | 7.20 |
| 72 | 1.43 | 1.54 | 1.65 | 1.74 | 1.76 | 1.78 | 1.80 | 1.82 | 1.84 | 7.30 |
| 73 | 1.45 | 1.56 | 1.67 | 1.76 | 1.78 | 1.80 | 1.82 | 1.84 | 1.86 | 7.40 |
| 74 | 1.47 | 1.58 | 1.69 | 1.78 | 1.80 | 1.82 | 1.84 | 1.86 | 1.88 | 7.50 |
| 75 | 1.49 | 1.60 | 1.71 | 1.80 | 1.82 | 1.84 | 1.86 | 1.88 | 1.90 | 7.60 |
| 76 | 1.51 | 1.62 | 1.73 | 1.82 | 1.84 | 1.86 | 1.88 | 1.90 | 1.92 | 7.70 |
| 77 | 1.53 | 1.64 | 1.75 | 1.84 | 1.86 | 1.88 | 1.90 | 1.92 | 1.94 | 7.80 |
| 78 | 1.55 | 1.66 | 1.77 | 1.86 | 1.88 | 1.90 | 1.92 | 1.94 | 1.96 | 7.90 |
| 79 | 1.57 | 1.68 | 1.79 | 1.88 | 1.90 | 1.92 | 1.94 | 1.96 | 1.98 | 8.00 |
| 80 | 1.59 | 1.70 | 1.81 | 1.90 | 1.92 | 1.94 | 1.96 | 1.98 | 2.00 | 8.10 |
| 81 | 1.61 | 1.72 | 1.83 | 1.92 | 1.94 | 1.96 | 1.98 | 2.00 | 2.02 | 8.20 |
| 82 | 1.63 | 1.74 | 1.85 | 1.94 | 1.96 | 1.98 | 2.00 | 2.02 | 2.04 | 8.30 |
| 83 | 1.65 | 1.76 | 1.87 | 1.96 | 1.98 | 2.00 | 2.02 | 2.04 | 2.06 | 8.40 |
| 84 | 1.67 | 1.78 | 1.89 | 1.98 | 2.00 | 2.02 | 2.04 | 2.06 | 2.08 | 8.50 |
| 85 | 1.69 | 1.80 | 1.91 | 2.00 | 2.02 | 2.04 | 2.06 | 2.08 | 2.10 | 8.60 |
| 86 | 1.71 | 1.82 | 1.93 | 2.02 | 2.04 | 2.06 | 2.08 | 2.10 | 2.12 | 8.70 |
| 87 | 1.73 | 1.84 | 1.95 | 2.04 | 2.06 | 2.08 | 2.10 | 2.12 | 2.14 | 8.80 |
| 88 | 1.75 | 1.86 | 1.97 | 2.06 | 2.08 | 2.10 | 2.12 | 2.14 | 2.16 | 8.90 |
| 89 | 1.77 | 1.88 | 1.99 | 2.08 | 2.10 | 2.12 | 2.14 | 2.16 | 2.18 | 9.00 |
| 90 | 1.79 | 1.90 | 2.01 | 2.10 | 2.12 | 2.14 | 2.16 | 2.18 | 2.20 | 9.10 |
| 91 | 1.81 | 1.92 | 2.03 | 2.12 | 2.14 | 2.16 | 2.18 | 2.20 | 2.22 | 9.20 |
| 92 | 1.83 | 1.94 | 2.05 | 2.14 | 2.16 | 2.18 | 2.20 | 2.22 | 2.24 | 9.30 |
| 93 | 1.85 | 1.96 | 2.07 | 2.16 | 2.18 | 2.20 | 2.22 | 2.24 | 2.26 | 9.40 |
| 94 | 1.87 | 1.98 | 2.09 | 2.18 | 2.20 | 2.22 | 2.24 | 2.26 | 2.28 | 9.50 |
| 95 | 1.89 | 2.00 | 2.11 | 2.20 | 2.22 | 2.24 | 2.26 | 2.28 | 2.30 | 9.60 |
| 96 | 1.91 | 2.02 | 2.13 | 2.22 | 2.24 | 2.26 | 2.28 | 2.30 | 2.32 | 9.70 |
| 97 | 1.93 | 2.04 | 2.15 | 2.24 | 2.26 | 2.28 | 2.30 | 2.32 | 2.34 | 9.80 |
| 98 | 1.95 | 2.06 | 2.17 | 2.26 | 2.28 | 2.30 | 2.32 | 2.34 | 2.36 | 9.90 |
| 99 | 1.97 | 2.08 | 2.19 | 2.28 | 2.30 | 2.32 | 2.34 | 2.36 | 2.38 | 10.00 |
| 100 | 1.99 | 2.10 | 2.21 | 2.30 | 2.32 | 2.34 | 2.36 | 2.38 | 2.40 | 10.10 |

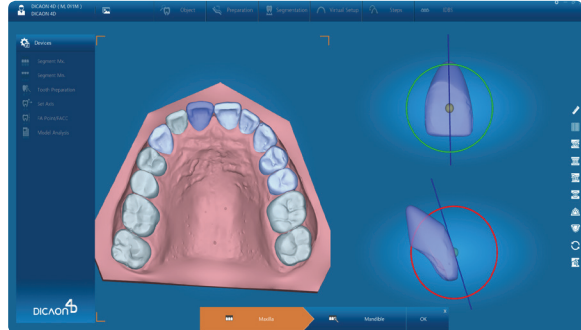
- Equipped with a conversion table that shows the movement(degree) in terms of rotation(Rotation, Torque, Tip) into straight line distance(mm).

+ Super Ceph



- Ability to analyze and diagnose occlusal condition of patient by superimposing Cephalo Image 3D Model Image.

+ Braces Guide



- FA point / FACC automatically set to provide more accurate braces guide.



DICAO 4D



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D-L-D4D-V1-201902-ENG



Introduction

1. DICAON 4D?

DICAON 4D is a software specialized for Clear Aligner Orthodontics Treatment in which setup of movement is possible by using 3D data and Cephalo data etc.

DICAON 4D is a software upon which clinical and laboratorial know-hows that DENTIS Institution of Clear Aligner Orthodontics(DICAO) accumulated were reflected. It supports a fast and accurate clear aligner orthodontic treatment procedures by helping the user to setup teeth or dentition into the desired position.

2. DICAON 4D Features



Clinical Aligner Orthodontics Specialization
Increased Setup Success Rate



High IT technology application
Excellent Collaboration & Rendering Speed



Analysis & Guide Functions
Diagnosis & Planning Accuracy




Intuitive User Interface
Easy setup & Comfort use




Connected with Aligner Orthodontics Academy
Maximize User Performance


3. Device Manufacturing Process




3D Scanning




Setup Design (DICAON 4D)




3D Printing (ZENITH D)



Model Trimming



Negative Pressure Molding



Clear Aligner

Procedure

①

②

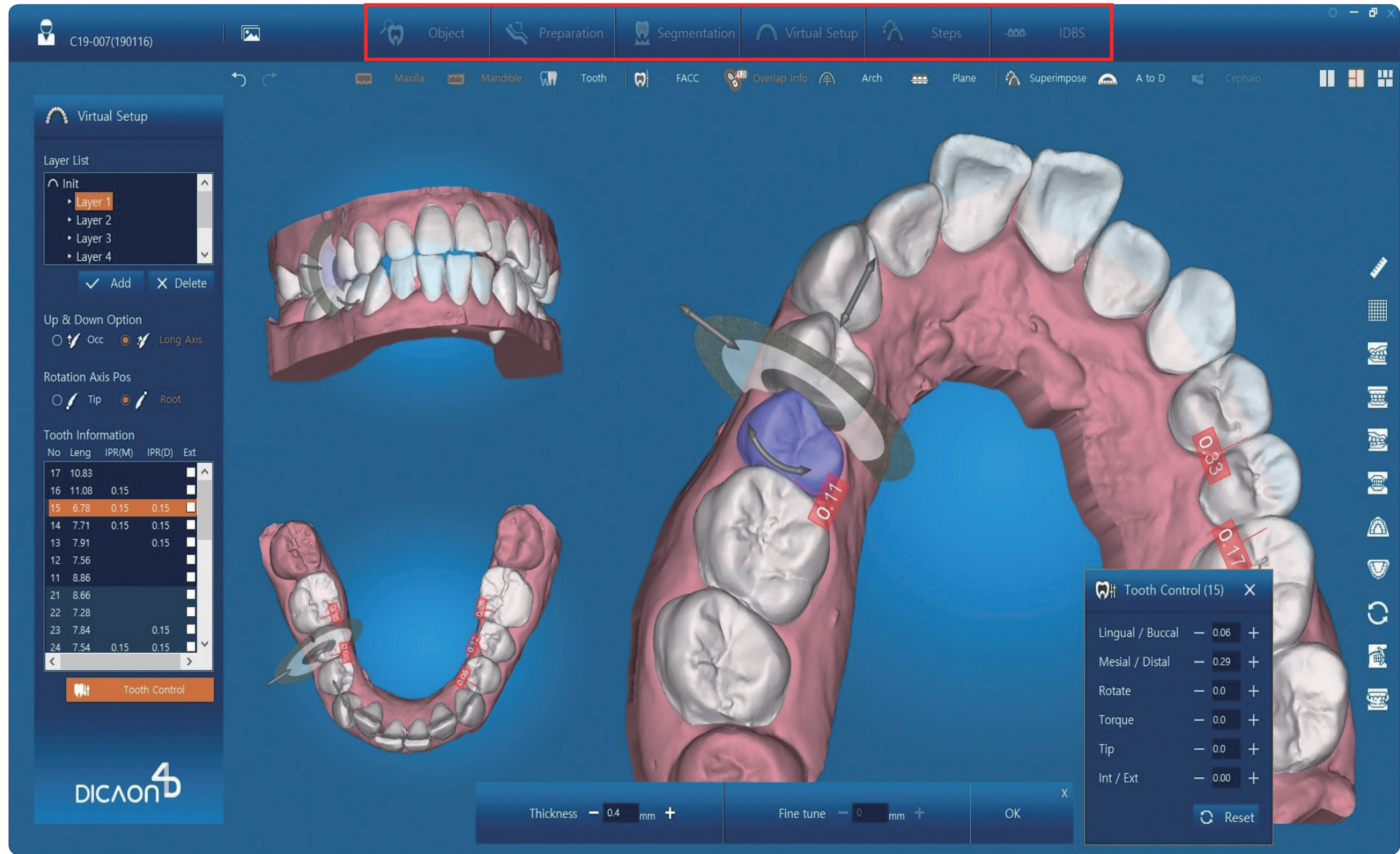
③

④

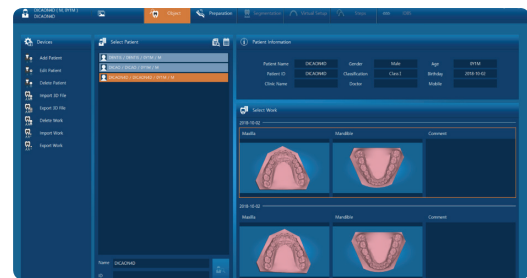
⑤

⑥

(Refer to Bottom & Right Description)

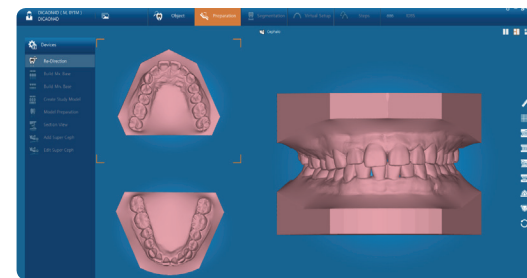


① Object



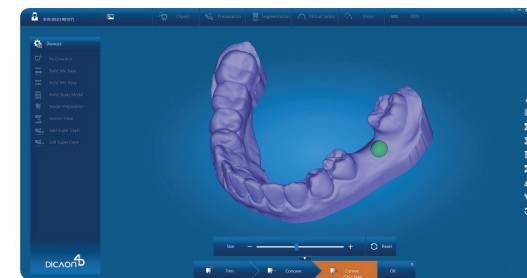
- Easy Patient & Data Search,
- Using Work File(.Zip), collaboration is fast & easy among DICAON 4D users.

② Preparation



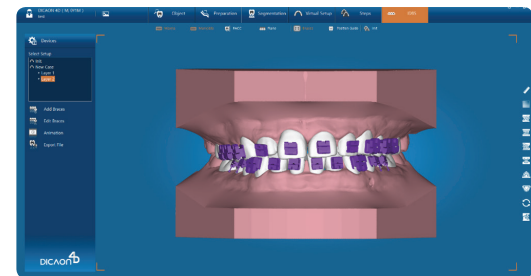
- Ability to rearrange & Collect 3D Images,
- Possible to create Study Model Base,

②-1 Model Preparation



- Amazing In-CAD Relief work using virtual brush,
- Convenient with Trim, Concave, Convex, (Brush) Size Control,

⑥ IDBS



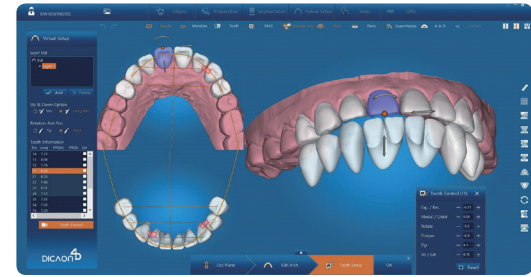
- Convenient IDB function using Position Guide,
- Accurate IDBS with FA point / FACC automatic setting,

⑤ Steps



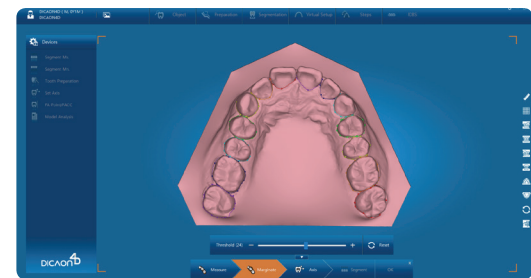
- Model Build based on automatic alignment function,
- Easy to process with Label / Number function,

④ Virtual Setup



- Fast & Accurate Setup using effective guide tools,
- Organizing Setup with excellent Layer Function,

③ Segmentation



- Easy & Fast Tooth Measurement, Separation Function,
- Accurate Tooth Axis can be set,