



3D ORTHO ALIGNER **Handbook**



SCAN
to visit us

Get Started
with us



Make your smile better

W&H Tech



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About 3D Ortho Aligner

Discover **3D Ortho Aligner by W&H Tech**,
a leading name in dental supplies across Thailand.

- Crafted with precision using **Zendura** material, renowned for its flexibility and durability, our aligners ensure optimal comfort and effectiveness.
- Powered by cutting-edge 3D printing technology, our aligners boast high accuracy and precision, faithfully following the treatment plan.
- Experience unmatched convenience with our seamless aftersale service, where a team of experienced professionals ensures transparency with a single price, eliminating hidden fees.

3D ORTHO ALIGNER PRICING

Express Case

Full Case

Unlimited Case

Pricing Packages

20,000.-
THB / Case

30,000.-
THB / Case

40,000.-
THB / Case

Features:

Aligners	6 sets	12 sets	24 sets*
Retainers	1 set	1 set	1 set
Template	Included if needed	Included if needed	Included if needed
Free-of-Charge Refinement	-	1 time	1 time
STL File Scan	Included if needed	Included if needed	Included if needed

Treatment Setup & Models STL File

1,800 THB / Case

2,200 THB / Case

2,500 THB / Case

Additional Refinement

Setup cost	2,000 THB / Case
Aligners	1,000 THB / Piece of Aligner
Retainers	1,000 THB / Piece of Retainer
Template	1,000 THB / Piece of Template
<i>Refinement cases deviating from the original treatment plan will not be accepted.</i>	

*For cases requiring more than 24 sets of aligners, an **additional fee of 1,000 Baht per exceeding aligner** will be applied. Generally, cases exceeding 24 sets of aligners will not be approved.

Refinement Conditions

Free refinement is available only during the refinement period.

Refinement period = number of aligners sets x 2 weeks

Ex. Treatment plan with 20 sets of aligners will allow for a refinement period lasting 40 weeks, starting from the initial wearing of the first aligner.

Other Fees

Broken or Lost	1,000 THB / Piece of Aligner or Retainer First piece is free of charge.
Extra Retainers	1,000 THB / Piece of Retainer

Account Registration

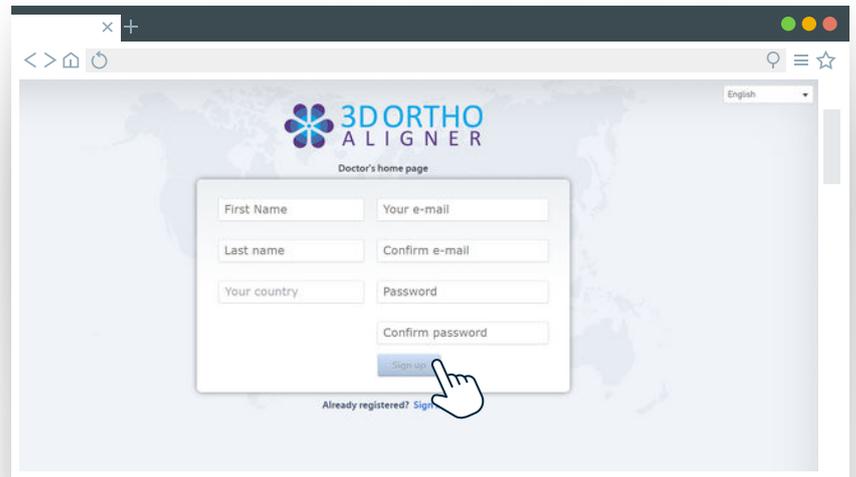
Create Account

Register now through www.wandhtech.com/3dorthoaligners



Upon entering the website, click the **"Create an account"** button to begin your journey.

Please provide your information. Once entered, click **"Sign Up"** to complete the process and you're ready to sign in.



Account Approval

After registering on the website, please request account approval by contacting us. You'll receive a confirmation email or message within 24 hours of your request.

Account Registration

Signing In

Register now through www.wandhtech.com/3dorthoaligners

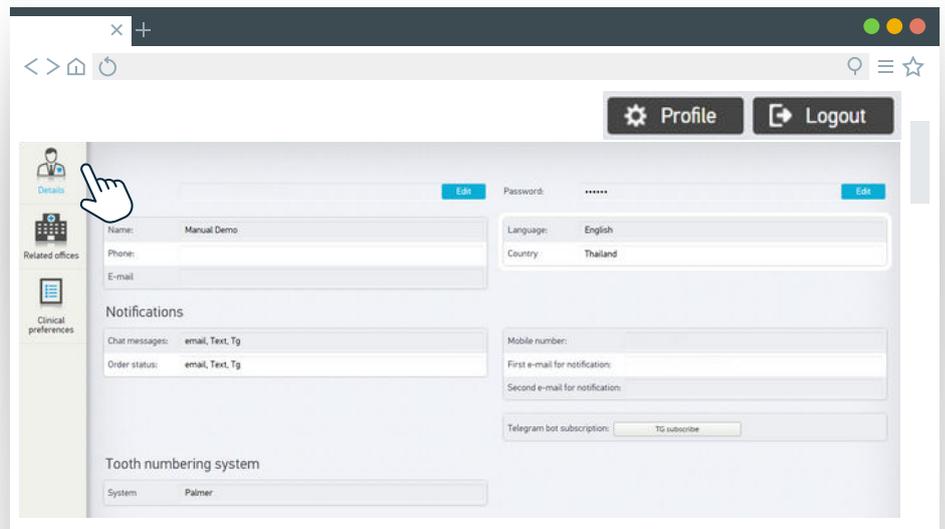
Account Approved

Once you receive the email or message confirming account approval, you're ready to sign in!



Enter your e-mail address and password to sign in to your doctor profile.

After signing in, navigate to your profile. Add additional personal information under **"Details," "Related Offices,"** or **"Clinical Preferences,"** if applicable.



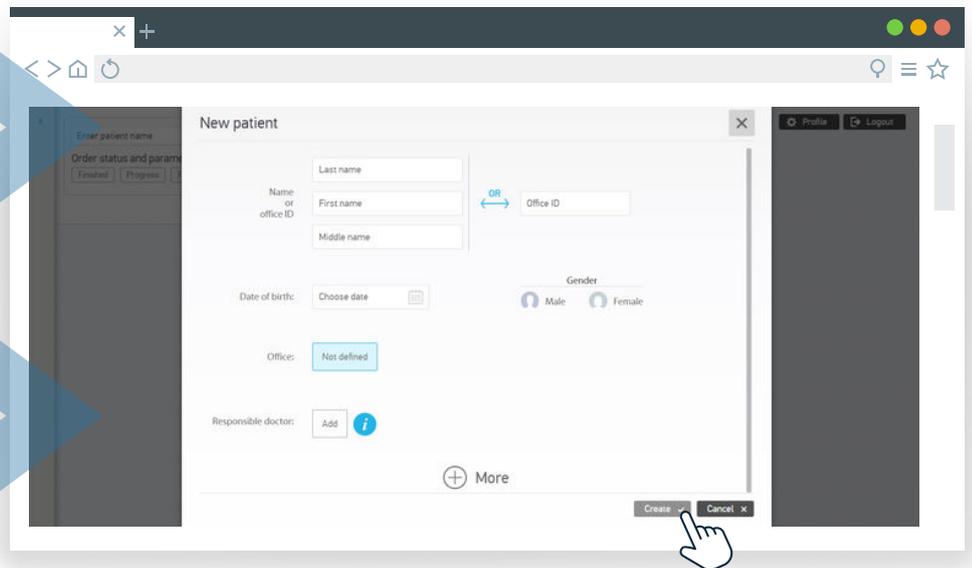
Case Submission

Create Patient

Register now through www.wandhtech.com/3dorthoaligners

After signing in, you can create a new patient profile by simply clicking the **"New Patient"** button.

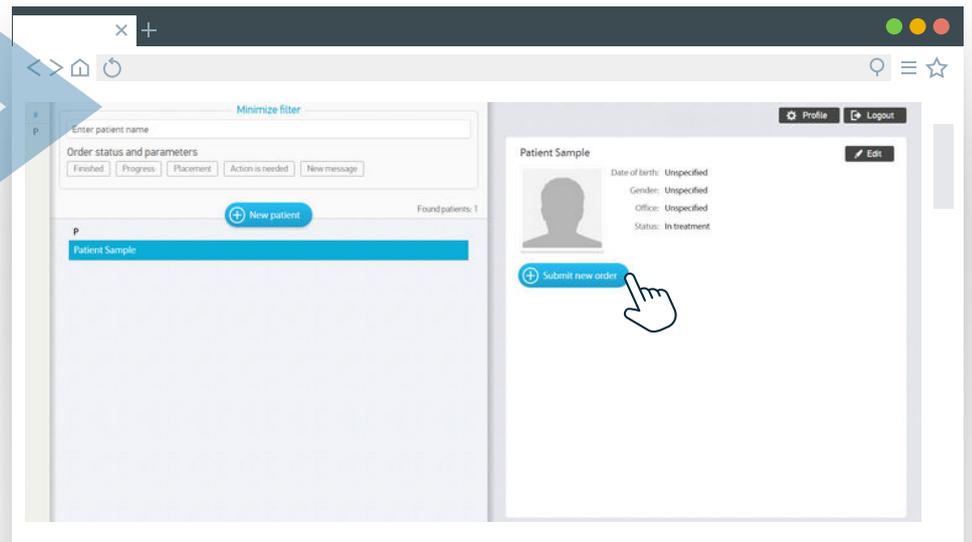
Fill in the above information about the patient. Once completed, click the **"Create"** button.



Once a new patient profile is created, you can submit a new case by clicking on **"Submit New Order."**

Note

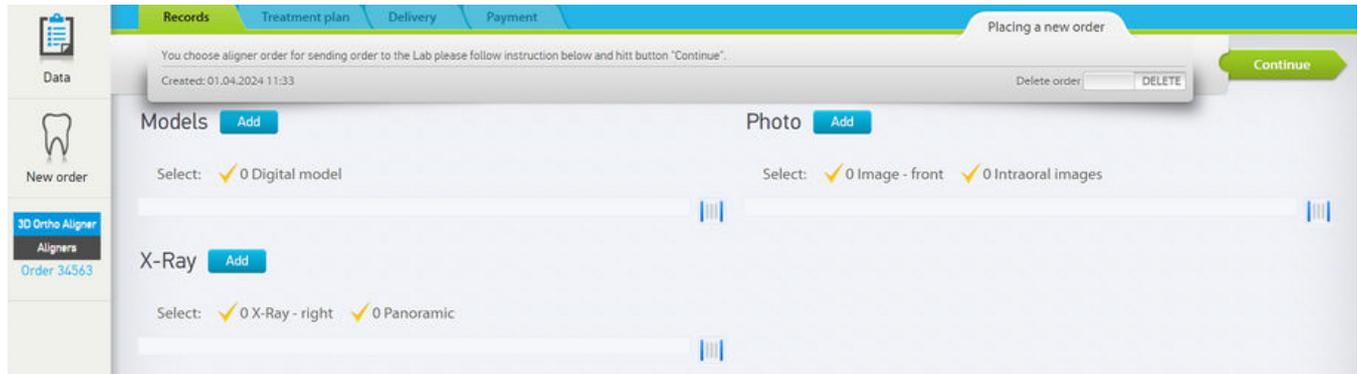
Before proceeding with case submission, doctors must first be approved. Please ensure you have requested approval and received our confirmation email or message.



Case Submission

Create Case

Register now through www.wandhtech.com/3dorthoaligners



Photos

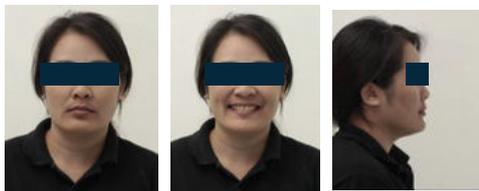
3 photos of patient:

1. Frontal view with a neutral expression.
2. Frontal view with a natural smile.
3. Side view of the patient's face.

5 intraoral photos of patient:

1. Upper occlusal view
2. Lower occlusal view
3. Frontal view
4. Left view
5. Right view

Example of Photos



Attach as "Image - front"

X-Ray Images



Panoramic View

Attach as "Panoramic"



Cephalometric View

Attach as "X Ray - right"

Models



Option 1

Send impressions & bite registration



Option 2

Oral STL file: Upper & Lower



Attach as "Intraoral images"

Treatment setups will be provided within 1 week of receiving patient information.

Free of charge

Case Submission

Create Case

Register now through
www.wandhtech.com/3dorthoaligners

For doctors who desire full customization and control over their treatment plan, please indicate your preference in the **text** provided.

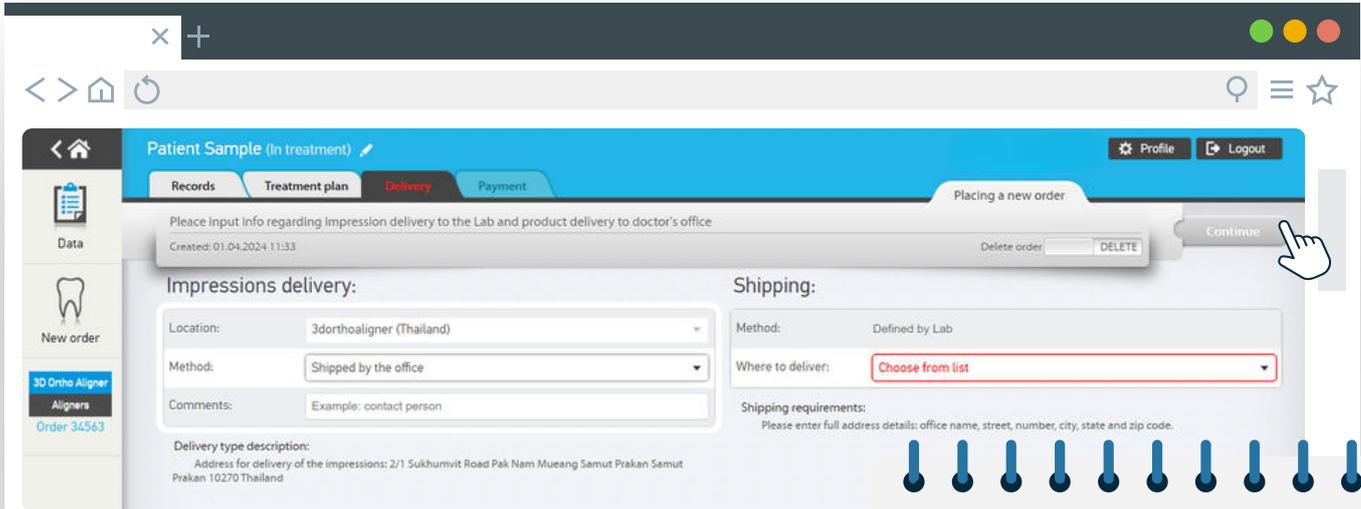
Click on the green arrow labeled **"Continue"** and proceed to fill in the details of the **treatment plan**.

Ensure to include the treatment plan text. Other optional information includes the final desired class, extraction, implants, passive or active aligners, trimming type, and any other relevant details.

Case Submission

Create Case

Register now through
www.wandhtech.com/3dorthoaligners



The screenshot shows the 'Impressions delivery' step of the case submission process. The page title is 'Patient Sample (In treatment)'. The navigation tabs are 'Records', 'Treatment plan', 'Delivery', and 'Payment'. The 'Delivery' tab is active. The page contains the following fields:

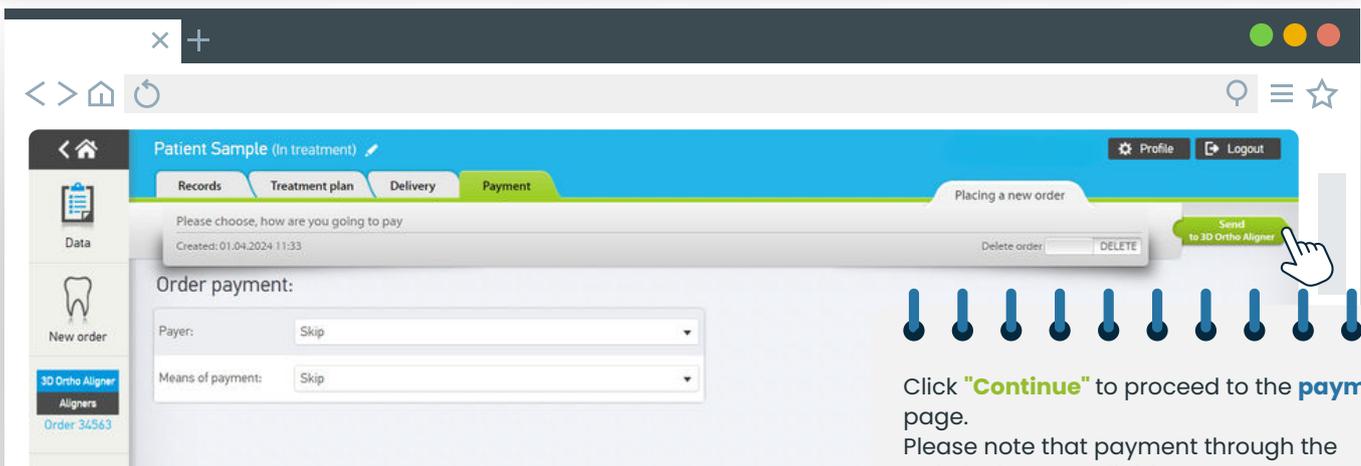
- Location:** 3dorthoaligner (Thailand)
- Method:** Shipped by the office
- Comments:** Example: contact person
- Shipping Method:** Defined by Lab
- Where to deliver:** Choose from list
- Shipping requirements:** Please enter full address details: office name, street, number, city, state and zip code.

Buttons include 'Delete order', 'DELETE', and 'Continue'. A hand icon points to the 'Continue' button.



Click **"Continue"** to proceed with the **delivery details**.

If physical impressions are required for treatment setup, please deliver them to the office and select the preferred delivery method to receive them back. Also, enter the shipping address for the delivery of aligners.



The screenshot shows the 'Order payment' step of the case submission process. The page title is 'Patient Sample (In treatment)'. The navigation tabs are 'Records', 'Treatment plan', 'Delivery', and 'Payment'. The 'Payment' tab is active. The page contains the following fields:

- Payer:** Skip
- Means of payment:** Skip

Buttons include 'Delete order', 'DELETE', and 'Send to 3D Ortho Aligner'. A hand icon points to the 'Send to 3D Ortho Aligner' button.



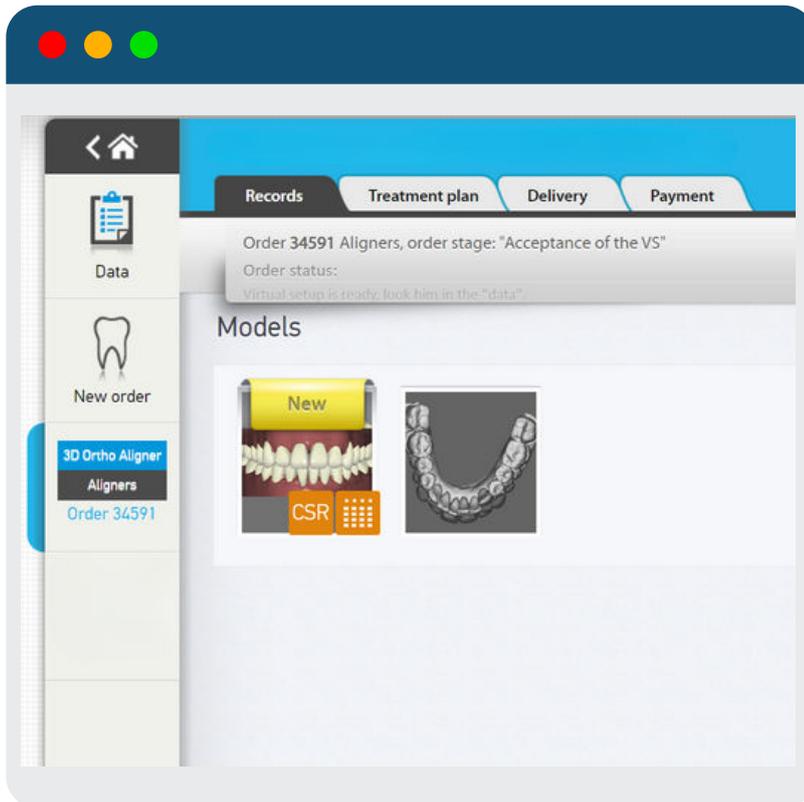
Click **"Continue"** to proceed to the **payment** page.

Please note that payment through the website is not available. Choose "skip" for both payment information and means of payment. Select **"Send to 3D Ortho Aligner"** and the case has been successfully submitted.

Case Approval

Treatment Plan

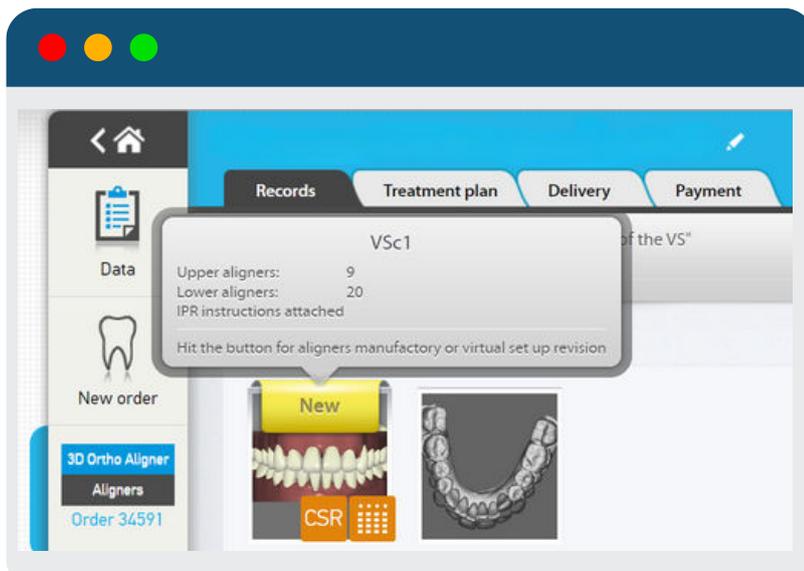
Register now through
www.wandhtech.com/3dorthoaligners



Note

Upon receiving a complete case submission with patient information, the treatment plan will be completed within **one week**. You can view the plan under the case profile.

In the case records, you'll find a **new** setup under models, representing the treatment setup created by our laboratory.



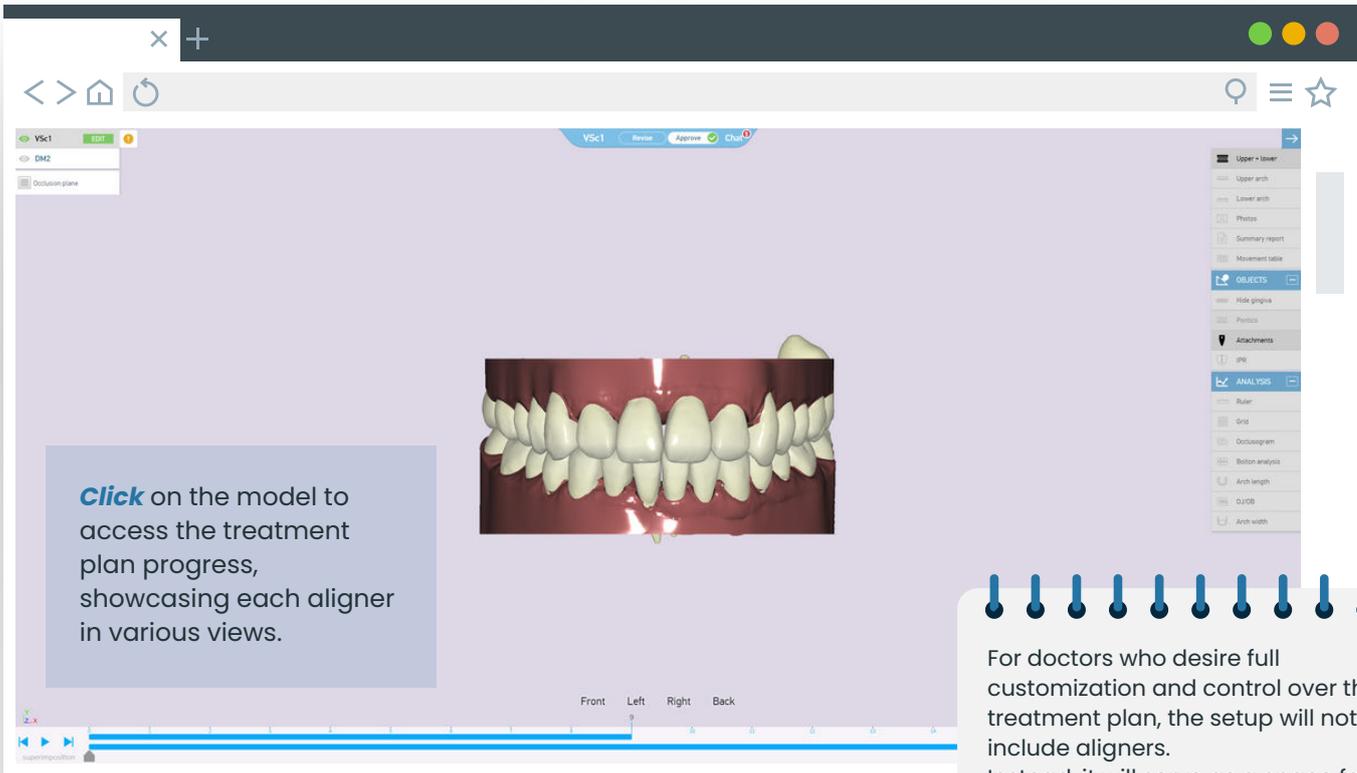
Click on the model to access the treatment plan progress, showcasing each aligner in various views.

Hover over the model to view the setup version "VSc1" and the number of aligners required for the case.

Case Approval

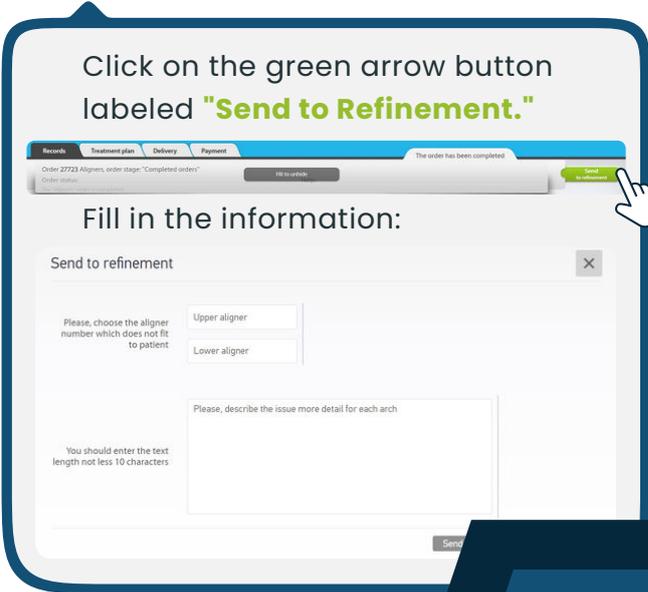
Treatment Plan

Register now through www.wandhtech.com/3dorthoaligners



For doctors who desire full customization and control over their treatment plan, the setup will not include aligners. Instead, it will serve as a space for you to create your own plan according to your preferences.

Send to Refinement



After proceeding with the treatment plan, if there are incidents within the refinement period that require refinement, navigate to the case and click "Send to Refinement." Please provide the **aligner number** that no longer fits the patient, along with a **description** for each arch explaining the issue.

Case Approval

Approve Plan



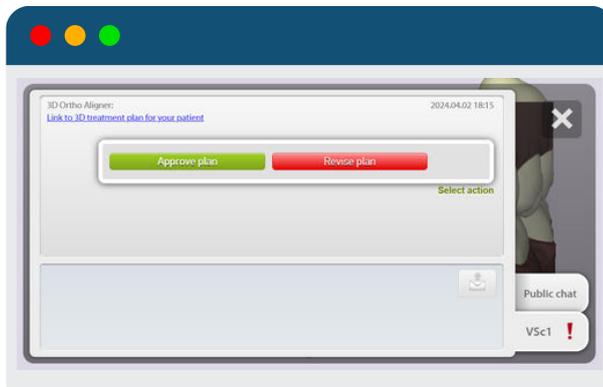
Register now through www.wandhtech.com/3dorthoaligners

Once you are satisfied with the treatment setup and final predicted results, you can proceed to **"Approve"** the setup, and we will prepare to manufacture the necessary pieces accordingly.

Revise Plan



If you have any changes you'd like to make to the initial treatment plan, simply message the adjustments you require in the chat box. Then, click **"Revise Plan"**, and we will formulate a new treatment plan according to your specifications.



From the chat box, you can also send a **link** specifically designed for patients to view. No edits will be allowed from this link.

Your treatment, Your choice!

Doctors who wish to fully customize their treatment setup from start to finish can indicate their preference in the treatment plan before submitting a case. Additionally, there is an option to customize the plan according to the initial treatment setup provided by our team.

PAYMENT FOR ONLY TREATMENT SETUP

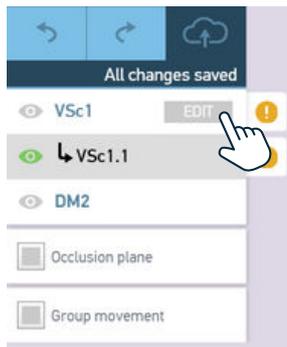
Upon receiving a complete case submission, proceed with payment. The treatment plan will be completed within **1 week** after payment confirmation.

PAYMENT FOR ALIGNERS CASE

After submitting the case, the treatment plan is available within a week at **no cost**. Upon approval, proceed with payment. Once confirmed, aligners will be manufactured and delivered in **2 weeks**.

Do-It-Yourself Case Design

Begin editing your own case



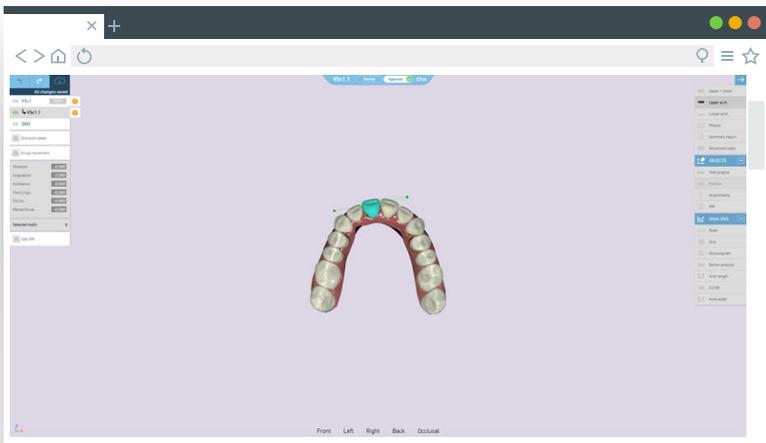
Doctors have the flexibility to modify the treatment plan or create a new setup from scratch by selecting "edit".

Subsequently, a subversion will appear, enabling doctors to make any required adjustments.

Additionally, changes can be **undone** and **redone** as needed.

Tools	
Upper + lower	Choose to view either upper or lower arches or both.
Upper arch	
Lower arch	
Photos	View attached photos
Summary report	View IPR and attachments report
Movement table	View movement of each individual tooth
OBJECTS	
Hide gingiva	Choose to view either upper or lower arches or both.
Pontics	
Attachments	View movement of each individual tooth
IPR	IPR Planning
ANALYSIS	
Ruler	
Grid	
Occlusogram	
Bolton analysis	Utilize analysis tools to access quantitative data
Arch length	
OJ/OB	
Arch width	

Alignment

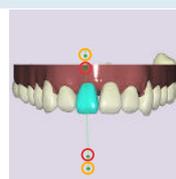


To begin designing the movement of each tooth, switch to view each arch separately for easier maneuvering. Then, select the tooth you wish to adjust.

Option 1



Occlusion view
Points adjust rotation



Front view
Inner: Adjusts angulation
Outer: Adjusts Ext/Int



Side view
Inner: Adjusts inclination
Outer: Adjusts Ext/Int

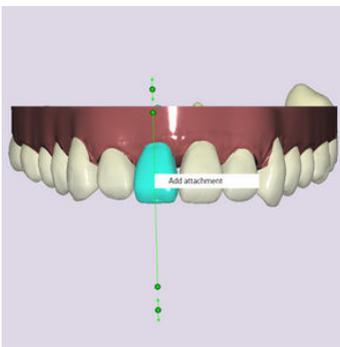
Option 2

Rotation:	-0.500	<p>Click on the number you wish to adjust and scroll with a mouse to increase or decrease the value. View the changes in the model until you are satisfied with the result.</p>
Angulation:	-2.000	
Inclination:	-2.000	
Vest/Lingv:	-0.000	
Ext/Int:	-0.600	
Mesial/Distal:	-0.550	

Do-It-Yourself Case Design

Attachments

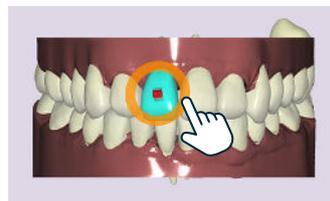
Add Attachments



Choose the attachments tool, then select the tooth to which you want to add attachments.

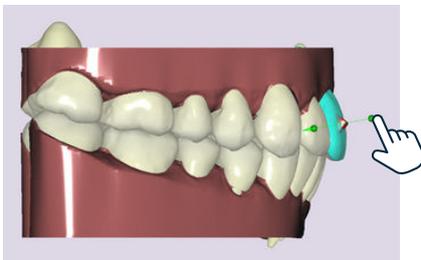
Right-click your mouse to add attachments, and select the appropriate type from the list of available attachment types.

Rotate Attachment



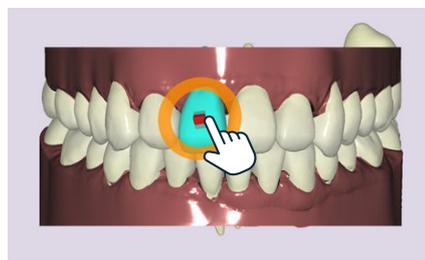
Select the attachment and rotate it by holding the mouse along the **orange circle**.

Attachment Depth



Adjust the protrusion of the attachment by pulling or pushing on the **green point**.

Move Attachment



Move the attachment on the tooth by directly dragging it.

Delete Attachment



To delete an attachment, simply select it and **right-click** to delete.

Attachment Types

Add attachment
Activator type 0
Activator type 1
Activator type 2
Activator type 3
Activator type 4
Activator type 5
Retention/Latch
Extrusion
Activator type 8
Activator type 9
Activator type 10
Root tip
Wedge upper
Wedge lower
Left angulation
Right angulation
Body movement
Rotation CW
Rotation CCW
Add aligners feature (addition)
Attachment for dissociation of teeth rows
Subtracting of volume for button
Hooks
Cutout for hooks
Hook cut out
Add aligners feature (subtraction)
Button
Button
Add aligners feature (subtraction)
Power rigde

Do-It-Yourself Case Design

Interproximal Reduction (IPR)

When is IPR needed?



IPR is only recommended to patients who require a small amount of extra space in their dental arches. Only those with moderate crowding should use this method to solve their spatial problems.

Choose the tooth on which you would like to perform IPR.

Begin IPR

Rotation:	0.000
Angulation:	-0.000
Inclination:	-0.000
Vest/Lingv:	0.051
Ext/Int:	0.018
Mesial/Distal:	-0.230
Selected tooth:	19
<input checked="" type="checkbox"/> Edit IPR	
<input type="checkbox"/> Distal:	0.00
<input type="checkbox"/> Mesial:	0.00
<input checked="" type="checkbox"/> Auto rounding	

Click on "**Edit IPR**" and then choose whether to perform IPR on the distal or mesial side of the tooth.

Approximate IPR Distance

Rotation:	0.000
Angulation:	-0.000
Inclination:	-0.000
Vest/Lingv:	0.008
Ext/Int:	0.015
Mesial/Distal:	-0.201

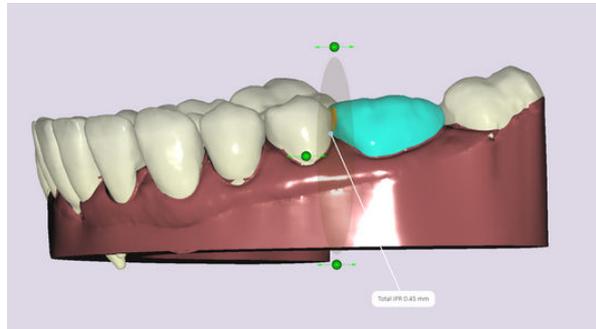
-0.15 -0.1 -0.05 **-0.201** 0.05 0.1 0.15

Gradually adjust the **Mesial/Distal** movement by 0.05 mm increments until crowding is resolved. The length of IPR needed can be approximated as **0.05 mm x the number of times clicked.**

Note

Doctors have the option to design other aspects of the treatment plan and specify IPR requirements separately in the **chat**.

Perform IPR



To select the most suitable view for IPR, it is recommended to choose the side view. From there, hold down the right-click on the mouse and drag the screen left or right to move the model around.

Utilize the point on the side to adjust the total IPR length, and use the lower and upper points to adjust the tilt angle of the IPR.

Equipment & Accessories

Panda P3 Intraoral-Scanner

Pen-style Operation Only 228 grams, reducing burden on hands

Button Operation Prevent contamination by not touching the screen



Intelligent AI Scanning



Aviation Aluminum Alloy



Intelligent Thermal Management System



Motion Sensing
View scanned images without touching the screen



Technical Specification

Scanning Technology	Staring Scanning with Coded Structure Light
Anti Fog System	Intelligent Heating
Accuracy	≤15µm
Precision	≤10µm
Handpiece Weight	228 g
Handpiece Dimension	216 x 40 x 36 mm
Handpiece Enclosure	Aviation Aluminum Alloy
Scan Field	18 x 16 mm
Scan Depth	0 - 15 mm (Adjustable up to 20 mm)
True Color	Full HD
Tip Type	3 Types (N / M / D)
Total Tips	x 5 (Autoclavable)
Tip Autoclave Cycle	20 - 50 Times
Calibrator	Automatic
Data Interface	USB3.0
Cable Length	2 m

Computer Specification

CPU	Dell G15: Intel i7-11800H / 12700H / 13650H
RAM	16G / 32G
Hard Disk	SSD 512G or above
Graphics Card	RTX2060 / RTX3060 / RTX4060
Operating System	Windows 10*64 bit or above
Display	Resolution 1920*1080



Full Arch Scan
in 1 - 2 mins

Pricing

STL File Scan Service

2,000 THB FREE! For 3D Ortho Aligner cases

Panda P3 Intraoral-Scanner

399,000 THB FREE! Laptop meeting specifications



Equipment & Accessories

UNIZ NBEE 3D Printer



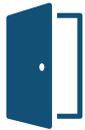
World Record Speed

6 full arches in 5 minutes



State-of-art Accuracy

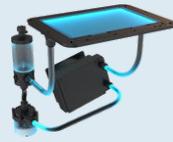
±50µm, up to 95.05%
±100µm, up to 99.6%



Open Material

Compatible with 100+ dental resins

Features:



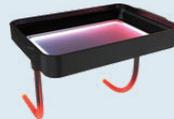
Liquid-cooling System

Maintain temperature below 40°C



Low-force stereo peeling

Micro-stereo composite peeling structures



Resin Control

Maintain optimal reaction



High Power Light Source

95% Uniformity

Technical Specification

Printing Technology	LCD Stereo Lithography
Build Volume	192 x 120 x 180 mm
XY Resolution	49.8µm
Maximum Accuracy	±10µm
Printing Speed	Print 6 Full Arches in 5 mins
Dimensions	380 x 380 x 130 mm
Weight	60 KG
Power Requirements	110V 6A / 220V 3A
Connectivity	USB Flash Drive, Wi-Fi, Ethernet
Control Panel	7" Touch Screen

Pricing

550,000 THB

FREE! 5 bottles of water-washable resin





Equipment & Accessories

Dental Model Resin



3D printing resin designed for DLP/LCD systems with a light source ranging from 386 to 405 nm for the production of highly detailed models.

Hazard Statements:

- May cause skin irritation or allergic skin reaction.
- Causes serious eye damage.
- May cause respiratory irritation if inhaled, leading to asthma symptoms or breathing difficulties with long-term exposure.

Precautionary Statements:

- Avoid breathing gas/mist/vapor/spray.
- Wash skin thoroughly after handling.
- Wear protective gloves, clothing, and eye protection.
- If in eyes, rinse continuously with plenty of water for several minutes.
- If on skin or hair, wash with plenty of soap and water.

Storage:

- Store the resin in a dark, cool, and dry place.
- Avoid exposure to heat and light.



Pricing

3,500 THB / 1 kg



Equipment & Accessories

UV Resin Curing Station



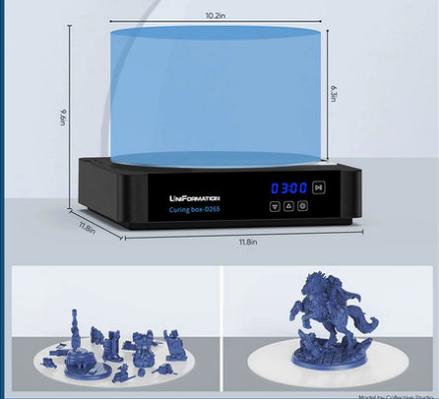
Technical Specification

Product Size	300 x 300 x 250 mm
Package Size	400 x 400 x 350 mm
Package Weight	9 kg
Digital Timer	Default option is 10 mins
Wavelength	400 - 405 nm
UV Lights	4 strips, 16 lights
Voltage	Input 110/220V Output 24V
Frequency	50/60 Hz
Power	60 W

Pricing

UV Resin Curing Station	15,000 THB
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Curing Volume



Large Curing Station

Excels in curing large-sized models or processing models in batches quickly, making it an ideal choice for professional resin 3D printing applications.

No Blind Spots

Uniform exposure from all sides

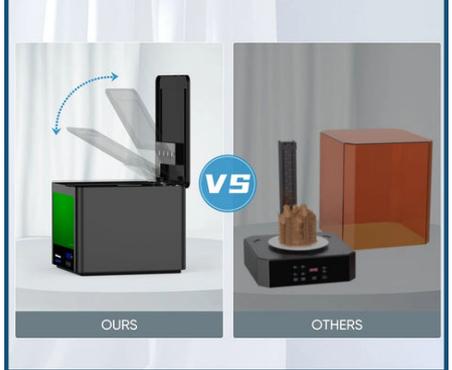


No Blind Spots

Ensures even curing, imparting a glossy finish and durability to resin prints while preventing over-curing and under-curing.

Easy Flip-up Lid

Simple Design for Saving Space



Easy Flip-up Lid

Features a vertical flip-up lid for convenient side-by-side working. Its durable quality blocks up to 99% UV light, simplifying your resin 3D printing workflow.



Equipment & Accessories

Zendura

Zendura FLX

Zendura FLX **aligners** offer a perfect blend of gentle yet firm teeth movement over 7-14 days as prescribed.

Zendura A

Zendura A **post-treatment retainers** offer superior durability, clarity, and stain resistance, ensuring long-term satisfaction for both doctors and patients.

Pricing

Zendura FLX or Zendura A **3,000 THB**



Ultrasonic Cleaner

Technical Specification

Voltage	127V and 220V
Frequency	50 / 60 Hz
Power	124V 260W and 220V 300W
Tank Volume	6 L
Ultrasonic Frequency	35,000 Hz
Tub Dimensions	323 x 205 x 99 mm
Washer Dimensions	534 x 305 x 244 mm
Inner packaging	575 x 370 x 325 mm
Net Weight	7.9 kg

Pricing

Ultrasonic Cleaner (5L) **16,000 THB**



Features

-  Performs automated ultrasonic cleaning in the deep structure of instruments, where manual mechanical washing cannot reach.
-  6.0 liter SUS 304 steel ultrasonic tank, sized for instruments up to 340mm.
-  Cover with resistant handle that fits into an ergonomic support located on the back of the fairing;
-  PVC hanging basket with a long folding handle that favors drainage and a short metallic handle that facilitates handling of loads.



Contact Us

- **Phone**

 +66 (0)2 023 5448

- **Message**

 contact@wandhtech.com



@wandhtech



W&H Tech



wandhtech

- **Website**

 www.wandhtech.com/3dorthoaligners

- **Address**

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2/1 Sukhumvit Rd, Pak Nam,
Mueang Samut Prakan, Samut Prakan,
10270 Thailand

