

# EzVolume™

Visualizing fetal structures with 3D auto-segmentation technology

Tips & Tricks

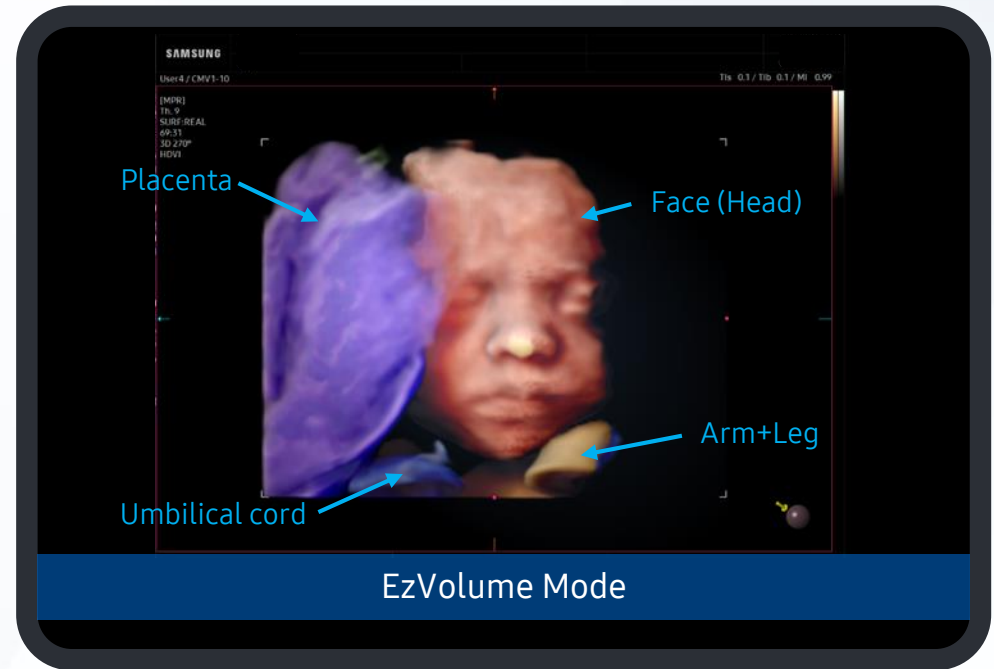
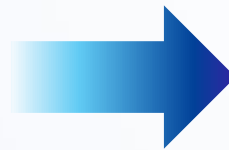
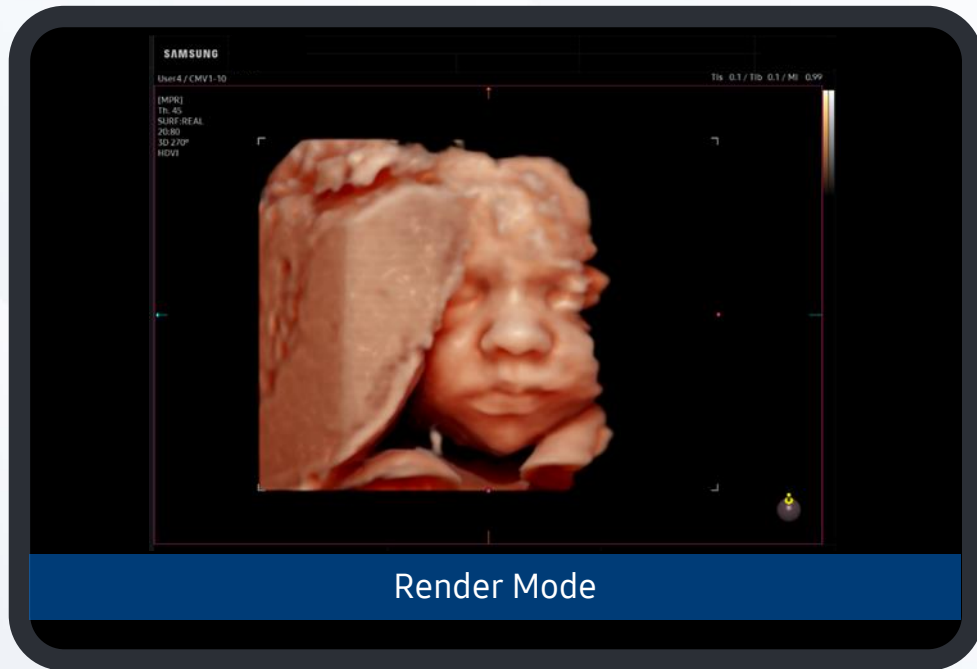
## Clinical Values

### Clinical Benefits

- When volumetric images of the fetus are acquired, they are imaged along with surrounding structures. At this time, users need complex and time-consuming operations such as rotation, movement, ROI adjustment, and MagiCut to create the desired visualization result.
- EzVolume™ effectively shortens these complex steps, automatically segmenting each anatomical structure in 3D.
- Volume images of the fetus in the 1st and 2nd, 3rd trimester are acquired, and the desired anatomical structures are independently separated and visualized so that the user can quickly and intuitively image them.
- Not only can the desired results be obtained immediately and faster than existing methods, but it also creates diverse visual effects between each structure.

<p><b>For users</b></p>	<p>Automatic segmentation methods can rapidly process large quantities of medical images, reducing the time and effort required for manual segmentation. It is an excellent technology in terms of efficiency and time saving.</p>
<p><b>For mothers and fathers</b></p>	<p>Visualizes each structure to help them understand and provide 3D images of the fetus with a pretty face.</p>

## EzVolume™



- **1st Trimester** Face, Fluid, Placenta, Uterus, and Umbilical cord are segmented and visualized in user-set colors.
- **2nd, 3rd Trimester** Face, Body, Arm+Leg, Fluid, Placenta, Uterus, and Umbilical cord are segmented and visualized in user-set colors.
- **Color Setup** In color setup, each segmentation can be set to the user's desired color.

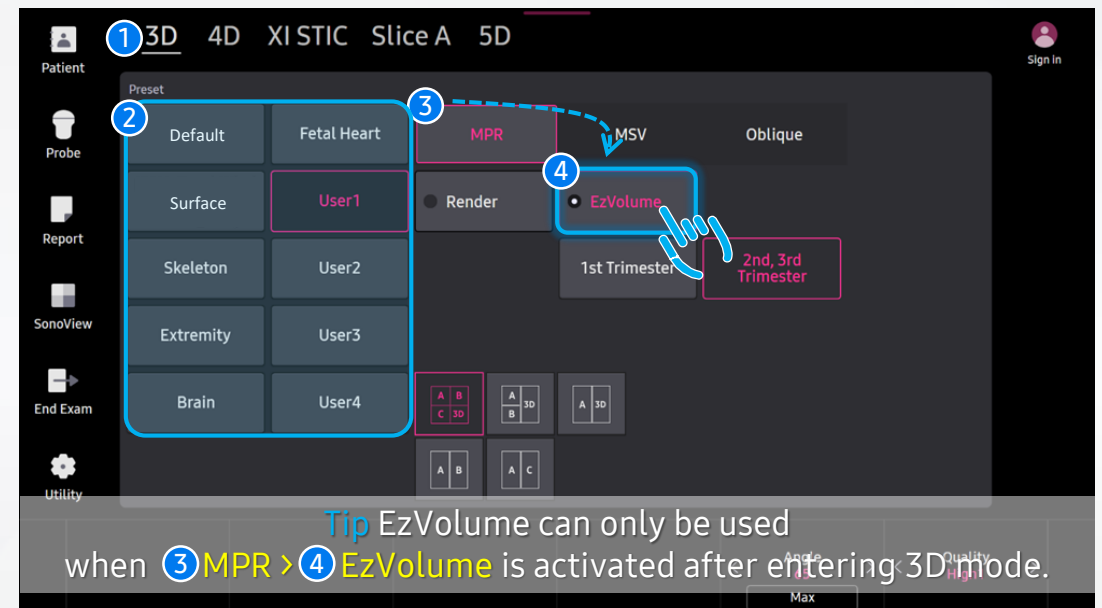
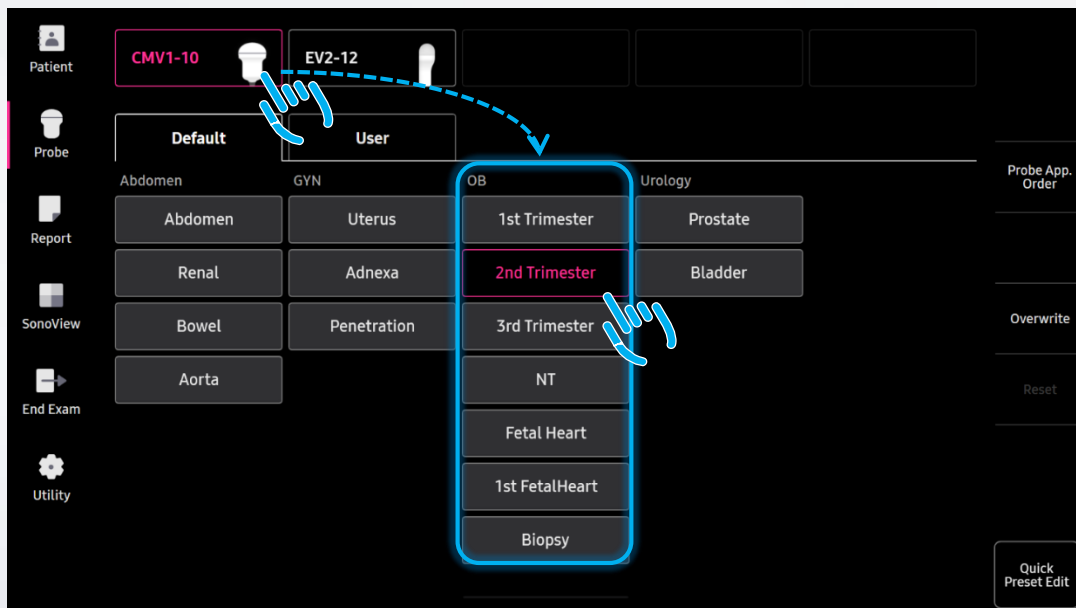
## Workflow

### Checklist

- Options : EzVolume™
- Transducer/Application/Preset : Volume Transducer (CMV1-10, CV1-8A, EV2-12) / OB Application / All presets

## General Work Steps

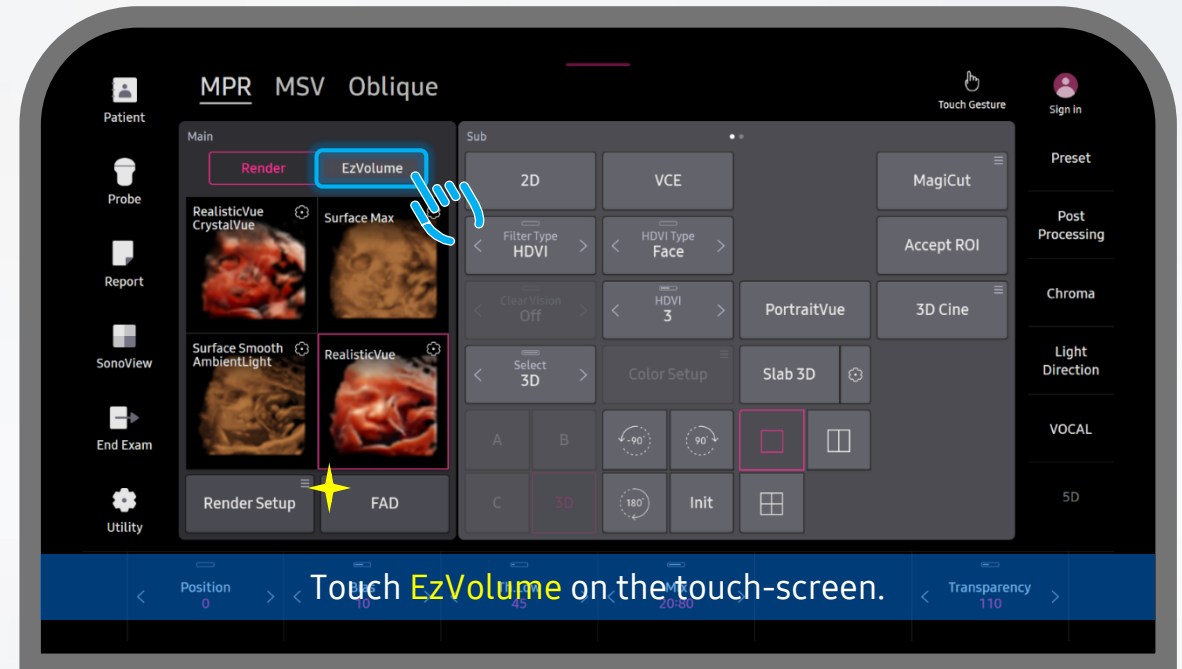
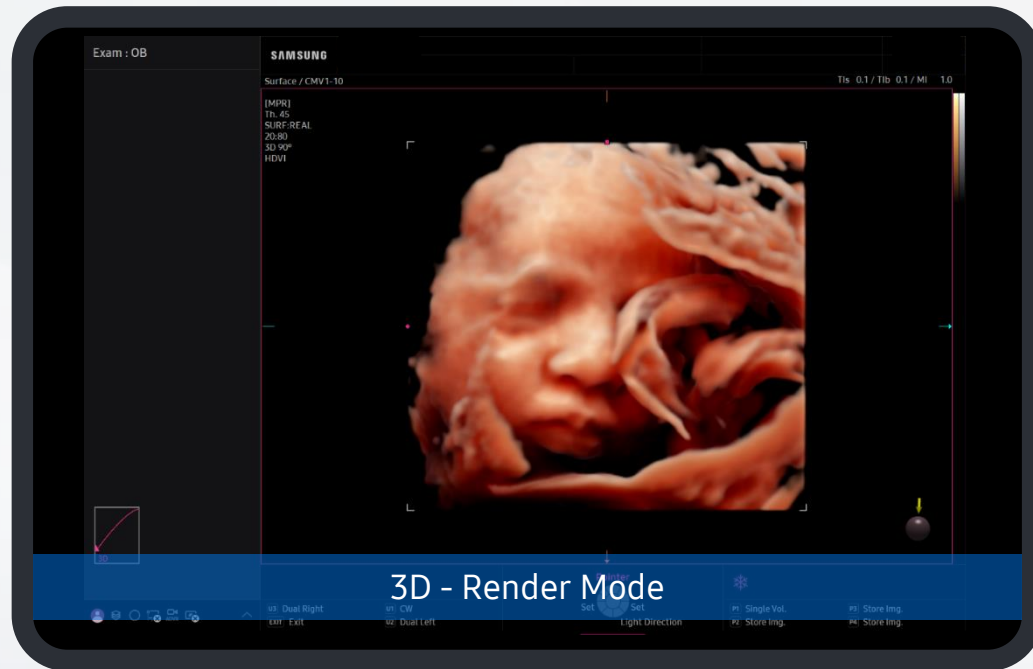
### 01. Touch a proper transducer, application and preset



Tip EzVolume can only be used when ③ MPR > ④ EzVolume is activated after entering 3D mode.

## Workflow

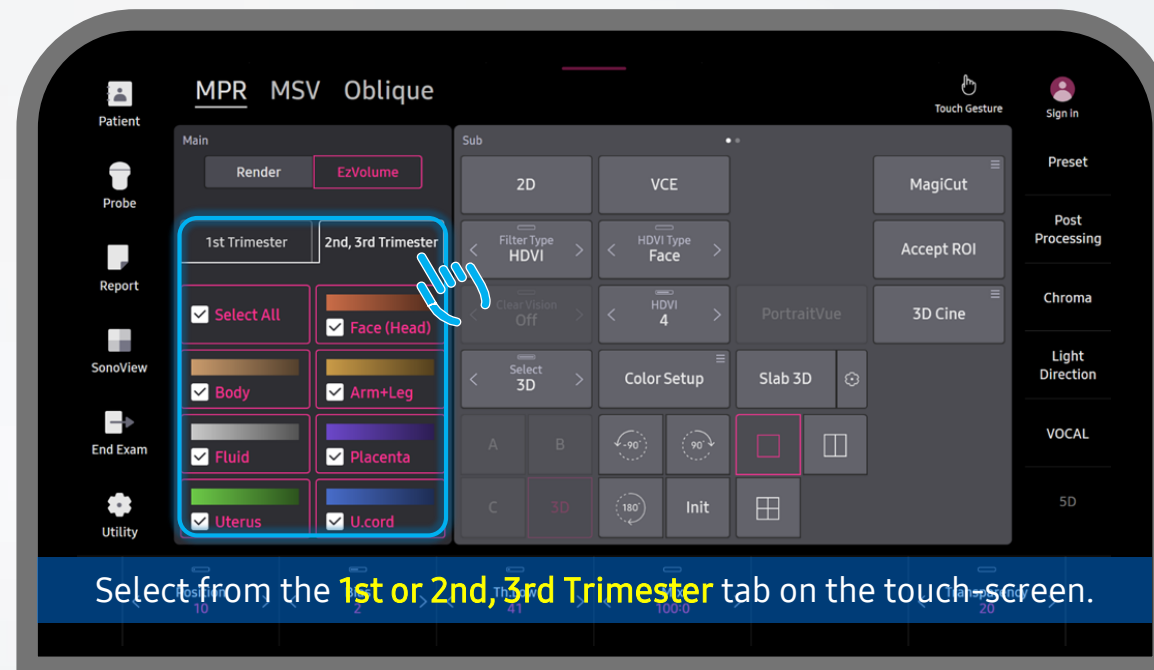
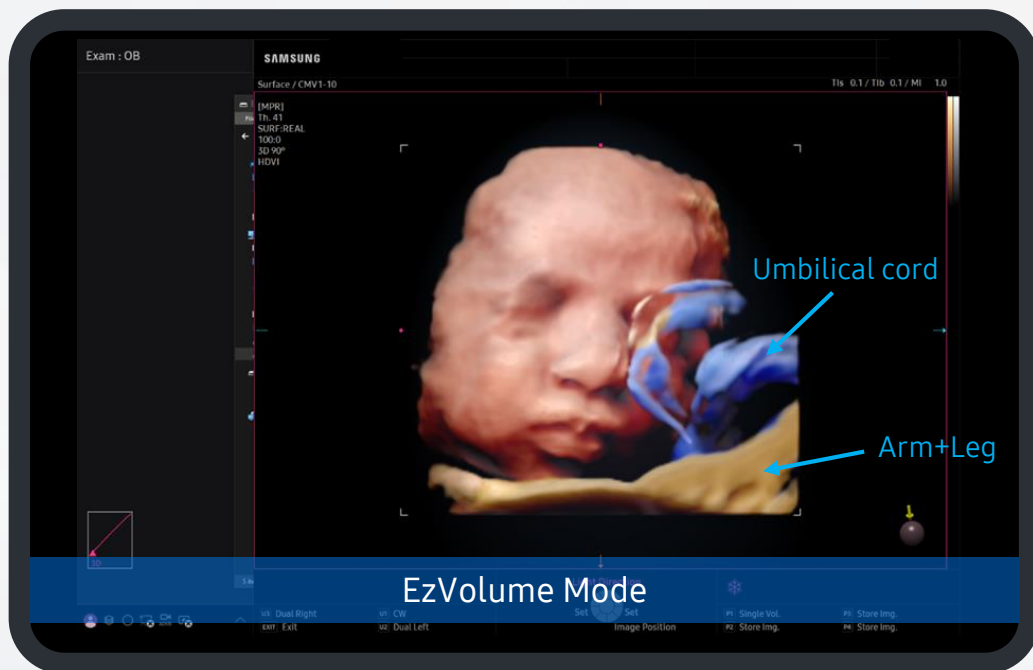
02. After acquiring the 3D image, touch **EzVolume** on the touch-screen.



★ **Tip FAD (Fetal face Auto Detection)** This automatically detects the face of the fetus and removes the images of any limbs that obscure the face.

## Workflow

03. Select from the **1st or 2nd, 3rd Trimester** tab. Check and touch the checkboxes of the items you want to show or hide.

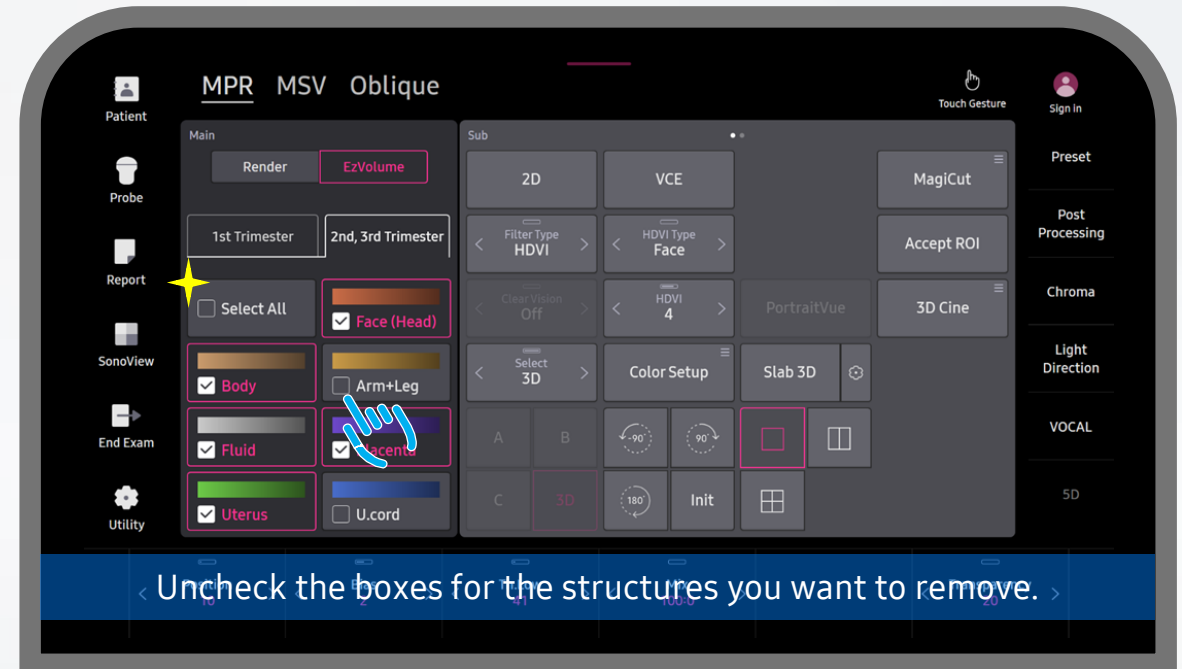
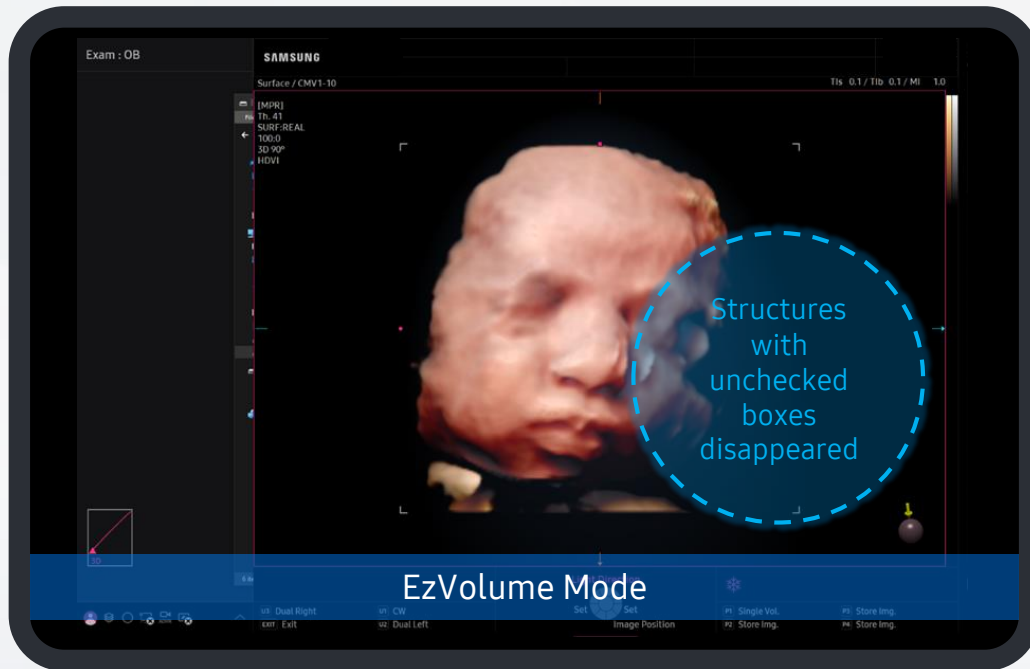


Select from the **1st or 2nd, 3rd Trimester** tab on the touch screen.

**Tip** Depending on which you choose between the '1st or 2nd, 3rd Trimester', different structure items are available to choose from. Please select the stages of pregnancy you would like to view.

## Workflow

04. If you uncheck the box corresponding to the structure you want to remove from the image, it will be immediately applied to the volume image.

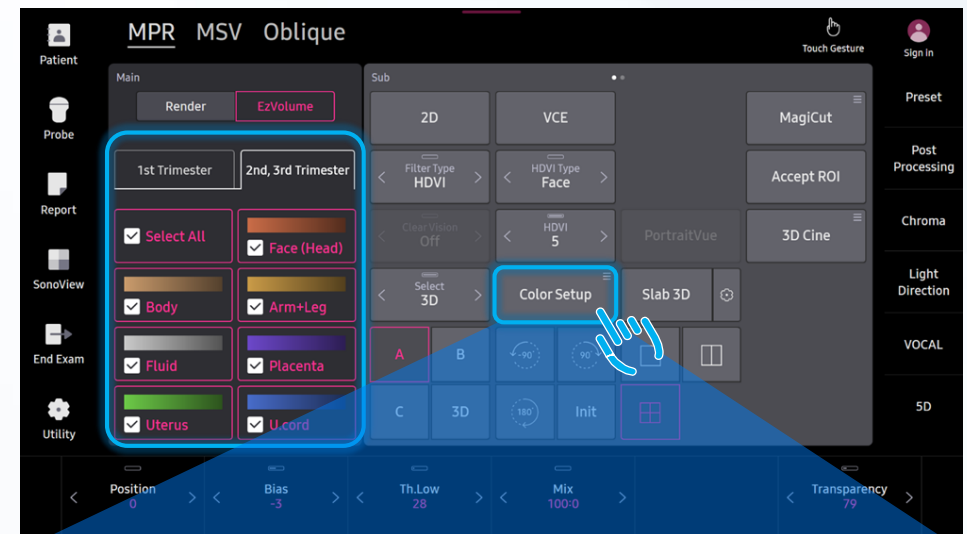
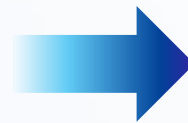
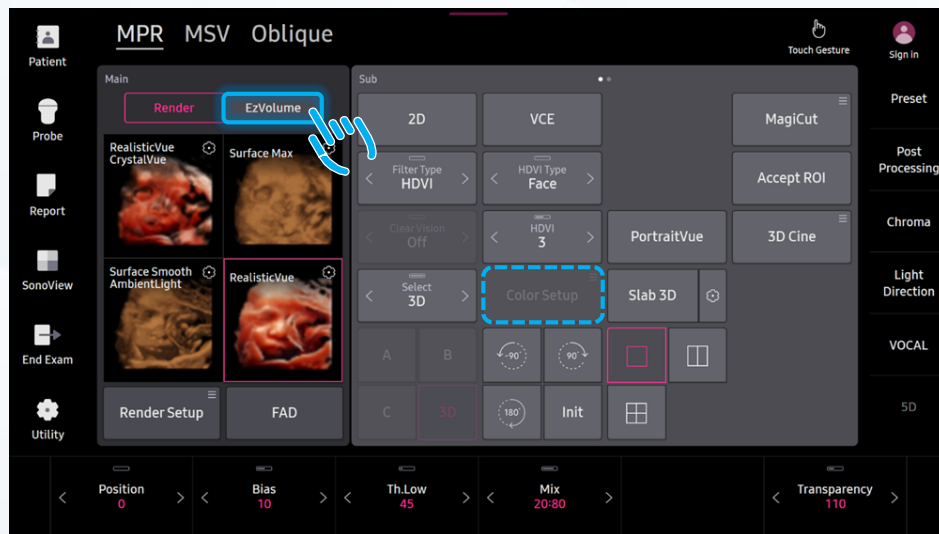


★ **Tip Select All** Touch 'Select All' to select or deselect all. After deselecting everything, you can touch only the necessary items to make them visible after checking the box.

## Demo Tips & Tricks

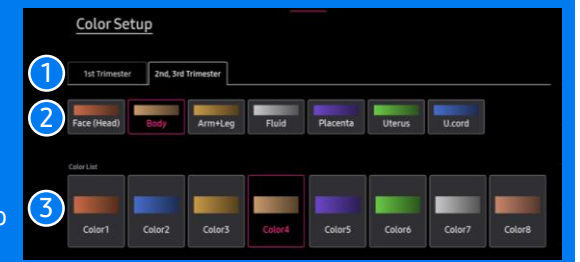
### I Color Setup

- When you touch 'EzVolume' after acquiring 3D volume image, 'Color Setup' is activated.



**Tip** 'Color Setup' settings can be saved as user presets through 'Preset' at the top right of the touch-screen in 3D mode.

1. Touch the '1st or 2nd, 3rd Trimester' tab you want to change.
2. Touch the structure first.
3. Touch the color you want to change in the Color List.

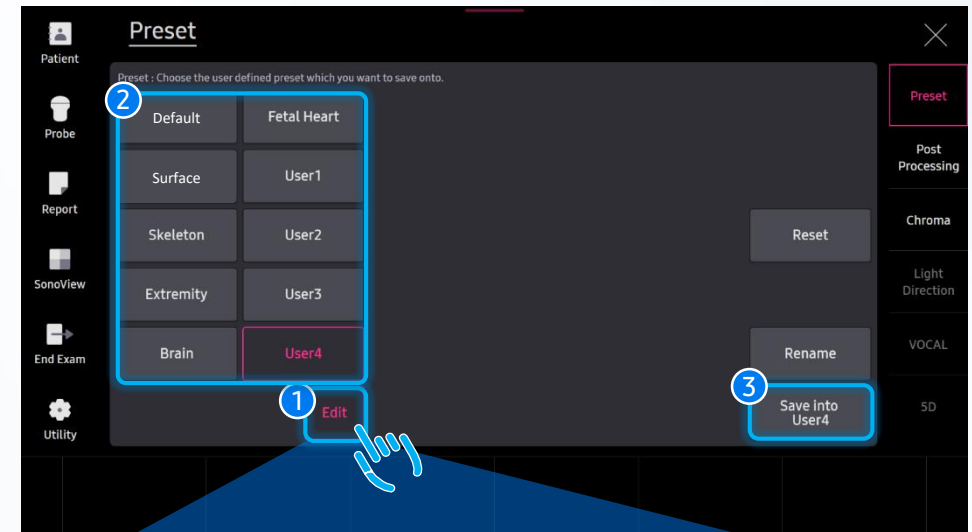
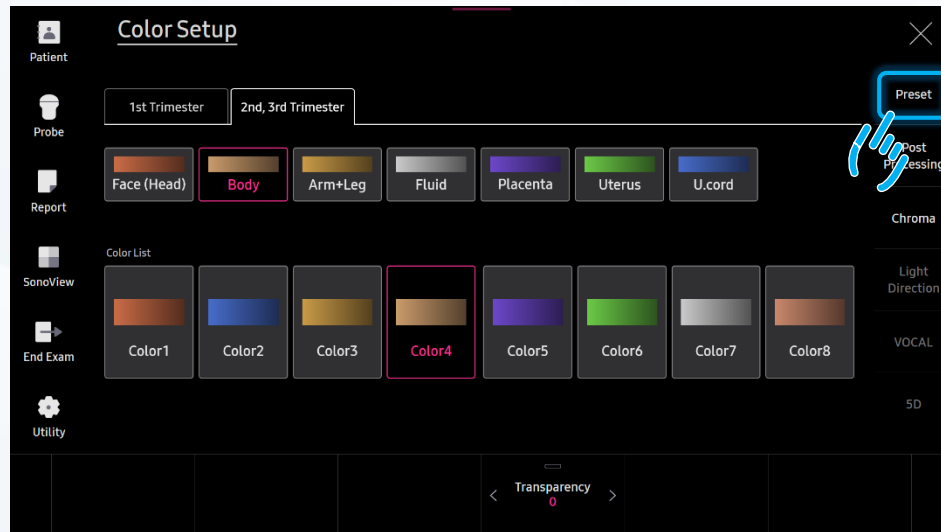




## Demo Tips & Tricks

### I Setting the changed Color Setup to Preset

- After changing the 'Color Setup' for each structure provided by EzVolume, touch 'Preset' at the top right of the touch-screen.



**Tip** To restore the factory settings after creating a User Preset : Touch 'Edit' and then 'Reset'.

**Tip** To change the name of a User Preset : Touch 'Edit' and then 'Rename'.

**Tip** It is initially activated when entering a preset in the **Render** or **EzVolume** mode selected last before saving the preset.

- 1 Touch 'Edit'.  
(\* If you directly touch 'Preset' without touching 'Edit' first, the Preset settings will be loaded.)
- 2 Touch the 'Preset' you want to save in the preset list.
- 3 Touch 'Save into User Preset' to save the settings.

## Disclaimer

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