

5D CNS+TM

HERA W10 User Quick Guide





※ This User Quick Guide is based on HERA W10 V1.03

X This User Quick Guide does not include all of the details of instruction, nor does it cover every possible situation which may arise during installation, operation, maintenance or usage.

User Quick Guide

1. Probe and Preset



X 5D CNS+[™] can be operated under the following conditions :

Probe	Application
CV1-8A	All Application * Select proper preset regarding to fetal gestational age
EV2-10A	Select proper preset regarding to retai gestational age.

User Quick Guide

2. Volume acquisition



1 Volume acquisition

Find true trans-ventricular axial plane or trans-thalamic axial plane before volume acquisition.

User Quick Guide 3. Activate 5D CNS+[™] by 5D Button





2	CNS+	Tap [CNS+] to activate 5D CNS+.
3	Preset	Select preferred preset between default and users. Each 5D feature could have own preset parameters.
4	Parameters	3D [Scan Angle] and [Scan Quality] are customizable.

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4. Activate 5D CNS+™ by 5D Quantification



Ŧ	C Touch Gesture	MPR	MSV Obliqu	e			Preset
Ţ	Render 🖨	VCT 2D Surface	Slab 3D ::		FAD	MagiCu	ut Post # Processing
Đ	Surface Smooth	Max	Render Setup #		3D Cine	Accept F	ROI
۵	RealisticVue	RealisticVue					Light Direction
-Ð			АВ			@	VOCAL
¢			с он			(180) Ir	nit 2 5D
elect	3D Position	30 Bias	10 1972-007		HDVI	2 1	Mix 70:30(9
h.Low	45	diail Milan W	Filter T	vpe HDVI	HDVI Type	Brain	Tenenkens: T

Scan Acquisition

5D Quantifications

Tips

Before 3D acquisition, refer to the

'5D CNS+ Guide' on the left top.

Scan Acquisition Tips

- Magnify image to fill at least two thirds of the screen.
- Adjust gain to enhance landmark borders
- Breath hold during 3D sweep to reduce motion artifact.
- Obtain volume acquisition when fetus is not moving
- 3D volume including entire fetal head.
- Starting with trans- ventricular plane

Recommended 3d scan angle

- Angle of acquisition : 45-60
- Scan quality : High- extreme

If 3D image acquisition is already done by 3D button as below



Tab to activate [5D] features and select [CNS+].

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5. Set 1st and 2nd Seed Point User Quick Guide





1	1 st Seed	Set the 1st seed point on Center or Middle of thalami and drag it toward frontal side.
2	2 nd Seed	Set the 2nd seed point on CSP (Cavum Septum Pellucidium). It must be put on the middle of CSP (anechoic area).

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User Quick Guide 6. 5D CNS+[™] Touch Screen



After positioning seed point, 9-view will be automatically displayed.

1	View	Images grouped by section planes
2	Plane	Specific 8-plane for fetal CNS evaluation.
3	Item	Tap to modify each measurement item. (※It is only provided on Axial plane)
4	Assign selected items to Report	Select item(s) to assign the report.

5	Report	Selected items will be shown on the
		report.

Notes

Slab 3D

Slices of a 3D image will be displayed as images rendered in 3D. You

may select [Slab 3D Type] among Surface, X-ray, Max and Min.

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7. Result View (All)

SD CNS+ MPR Pane TT </



After placing 1st and 2nd seed point on the image, 5D CNS+ provides 9 planes for fetal head diagnosis, as well as anatomical indicator will be displayed.



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8. Result View (All)

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1	Axial	Select Axial to review 3 axial views include TT, TV and TC.
2	CNS+ Measurement result	With Axial view, measurement results will automatically displayed on the monitor include HC, BPD, OFD, Vp, CEREB and CM.





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9. Result View (Axial-Retry Measure)





In c	ase of re-measurement,	
1	Plane	Tap proper plane among [TT], [TV] or [TC] that has measurement data.
2	Move Line Vertically, Move Line Horizontally, Rotate Line	If needed, edit plane by using knob buttons.
3	Retry Measure	Auto measure again on selected plane.
4	Item	Manual measurement on assigned item.
5	Editing Complete	Once the editing is completed, tap [Editing Complete] to assign the result.

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9. Result View (Coronal)

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1	Coronal	Select Coronal to review 4 Coronal views include TFc, TCaoudC, TTc and TCc
2	Move Line Horizontally	Select the plane and if needed, edit plane by using knob buttons



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10. Result View (Sagittal)



1	Sagittal	Select Sagittal to review the Para Sagittal Plane(PSP).
2	Move Line Vertically	Select the plane and if needed, edit plane by using knob buttons.





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* The features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed.

* Do not distribute this internal document to customers unless relevant regulatory and legal affairs officers approve such distribution.

* This product is a medical device, please read the user manual carefully before use.

* This document is provided to help you understand the feature.