SAMSUNG



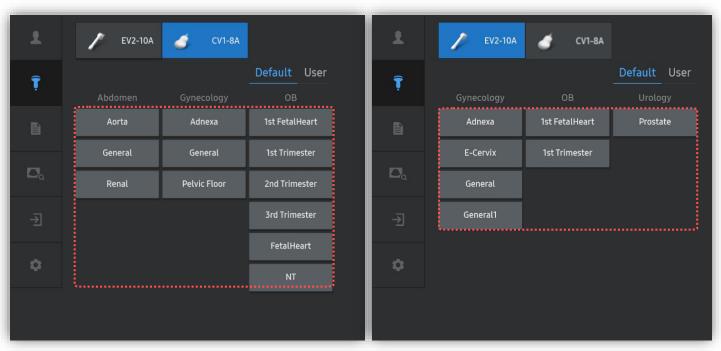
5D Limb Vol.TM HERA W10 Quick Guide



Produced by Clinical Training Center / SAMSUNG MEDISON CO.,LTD

5D Limb Vol.™

1. Probe and Preset



* 5D Limb Vol.™ can be operated under the following conditions :

CV1-8A, EV2-10AEV3-10B,EV2-12 (Elite Only)* Select proper preset regarding to fetal gestational age.	Probe	Application
EV2-12 (Elite Only) * Select proper preset regarding to fetal gestational age.		All Presets
	EV2-12 <i>(Elite Only)</i>	* Select proper preset regarding to fetal gestational age.

* Tips

To display EFW based on AVol. or TVol., set the EFW Author of fetal weight equation to [Lee1] or [Lee2] in the setup.

*For instructions, refer to the appendix of this manual

5D Limb Vol.™

4 Angle

25° Quality

2. Activate 5D Limb Vol.™ (Before 3D Acquisition)

5D Limb Vol. Guide sʌʌ	2019-05-14-0001	SAMSUNG MEDISON	MI 1.0 TIs 0.2	2019-05-14 16 : 12 :30
Adnexa /CVI-84 [2D] Frq Gen, GN 51 GN 52 FA 3 FA 3 P0	Scan Acquisition Tips • Adjust image depth to f two-thirds of the screen.			S. A M
	●Optimize gain to enhand tissue borders.	ce limb soft		
Scan Acquisition TipS Adjust image depth to fill at least two-thirds of the screen. Optimize gain to enhance limb soft tissue borders. Adjust size and Position of 3D ROI	 Adjust size and Position to include entire limb (bo tissue). 			5 - -
to include entire limb (bone+soft tissue). Breath-hold during 3D sweep to reduce motion artifact.	●Breath-hold during 3D reduce motion artifact.	sweep to	L	
Obtain volume acquisition when fetus is not moving Recommended 3D Scan Angle 2nd Trimester, 40-45	●Obtain volume acquisiti fetus is not moving	on when		10 - -
zho Trimester: 40-45 Late 3rd Trimester: 55-65 Late 3rd Trimester:70-Max Angle	Recommended 3D Sc 2nd Trimester: 40-45	an Angle		
UT Exit US Volume Save US MV-Row PI Save - Print 1 - Send to DICOM PE Store Clip	Early 3rd Trimester: 55-65 Late 3rd Trimester:70-Ma			
	55° Hi Scan Angle Scan (uh vality		
1	3D Ready 4D	Ready 5D Ready		
Patient	3			
CNS+	Default			
Probe	User1		Auto ROI	
Report NT	User2			
Do SonoView Follicle	User3			
→ LB (Long Bone) End Exam	User4			
¢				
Utility				

Scan Guide 5D Limb Vol.

1 5D Button	Press [5D] button on the control panel.
Limb Vol.	Tap [Limb Vol.] to activate 5D Limb Vol.™
Preset	Select preferred preset between default and users. Each 5D feature can have its own preset parameters.
4 Parameters	Scan [Angle] and [Quality] are customizable.
Image acquisition	Scan the upper arm or thigh of fetus.
• Optimize gain to er	n to fill at least two - thirds of the screen. Thance limb soft tissue borders. Ition of 3D ROI to include the entire limb

- Breath hold during 3D sweep to reduce motion artifact.
- Obtain volume acquisition when fetus is not moving.

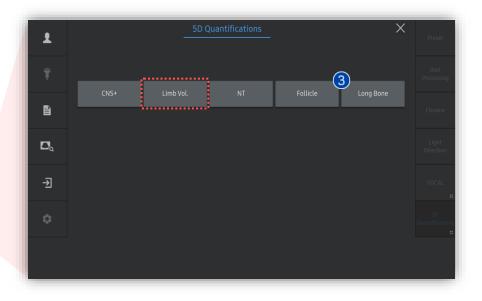
5D Limb Vol.™

3. Activate Limb Vol.™ (After 3D Acquisition)



Image acquisition	Scan the upper arm or thigh of fetus.
2 5D	Tab to activate 5D features.
3 Limb Vol.	Tap to activate [Limb Vol.].





5D Limb Vol.™

4. Bone Editing

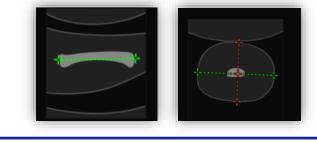
1 (Limb	5D Limb Vol.	MPR	
	AVol TVol			
Ê				
۵				
⋺			2	
٠			Slab 3D "	Skip



1 Limb Type	Select limb type between arm (AVol) or leg (TVol).
Skip	To Skip [Bone Editing] process, tap [Skip].

• * Tips

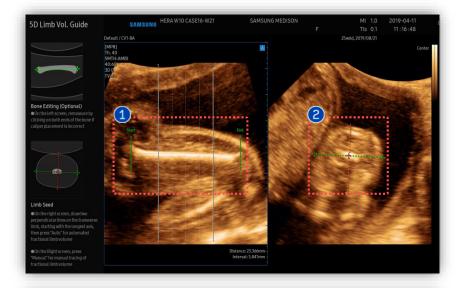
In case of using [Skip] on this progress, next two step which is [Bone Editing] and [Limb Seed Selecting] should be done for more accurate result.



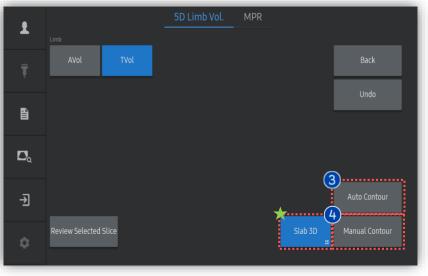
Bone Editing (Optional) If you do not skip [Bone Editing], place the arrow on the middle of bone and [Set].

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5. Bone Editing and Limb Seed



1	Bone Editing	Re-measure by clicking on the both ends of the bone if auto caliper placement is incorrect.
2	Limb Seed	Draw two perpendicular lines on the transverse limb, starting with the longest axis, then press [Auto Contour] or [Manual Contour].

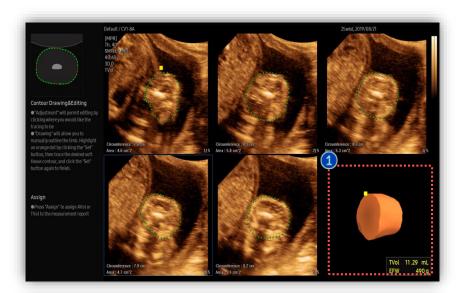


 Manual Contour Tips 	Locate and measure the volume of fetal limbs manually by using contour tool.
3 Auto Contour	Locate and measure the volume of fetal limbs automatically. (This method is recommended)

Slices of a 3D image will be displayed as images rendered in 3D. You may select *[Slab 3D] type among Surface, Xray, Max and Min.

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6. Result and Edit



£	Limb		5D Limb Vo	l. MPR		
	AVol	TVol	Adjustment	Redrawing		Back
			Revert Adjustment	Drawing Type Two Click		
۵			Hide Contour			
⊉					(3)
٥	Review Selected	Slice			Slab 3D #	Assign to Report

	3D rendered limb image and volume
1 Result	data will be provided at the bottom right.
	light.

2 Edit Type	When edit is needed select proper type of edit among 'Adjustment', 'Redrawing' and 'Revert Adjustment'.
Assign to Report	Tap to apply calculated result including Limb Vol. and EFW to the report.

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7. 5D Limb Vol.™ Result in Report

Name					HERA W1	0 CASE16	Exam. Date	2	
Gender	Female						HR	Þ	
Institute	SAMSUN	G MEDISON							
[OB]									
LMP(GA)	2018-11	14	EDD(GA)		2019-08-21		GA	21w0d	
AUA	21w2d		Pctl. Crite		AUA		EFW	419g±	63g
GA(EFW)	21w1d		Pctl.(EFW)	47.96		SD(EFW)	-0.05	
BPD	Hadlock	21w4d±12d	5.18	cm	5.18			Hadlock	65.62
нс	Hadlock	21w3d±10d	19.18	cm	19.18			Hadlock	46.36
AC	Hadlock	21w2d±14d	16.32	cm	16.32				
_ե	Hadlock	21w1d±12d	3.53	.cm	3,53			Hadlock	3625
TVol			11.47	ml			11.56		
5D Limb Vol.									
EFW (TVol)				491	g	490		492	
Umbilical A			Avg.			2	•••••		Pctl.
PSV			53.34	cm/s	53.34				
EDV			13.42	cm/s	13.42				
TAPV			30.24	cm/s	30.24				
TAMV			15.44	cm/s	15.44				
PGmax			1.14	mmHg	1.14				
PGmean			0.43	mmHg	0.43				
			3.97		3.97				

	Limb volume and EFW(Estimated
1 Report	Fetal Weight) by obtained limb
	volume will be displayed.

TVol	11.47	ml	11.29	11.56	11.56			
5D Limb Vol.					1	2	3	
EFW (TVol)		491	g		490	492	492	

5D Limb Vol.™

* Appendix – Assign EFW table

1

isure Setup						2023-03-13 01: 21:30 PM
Measure						Data Transfer
	Fetal Weight					
		Equation EFW = Lee2			EFW1 Lee1	Set
	Hansmann ^					
					AC	
					AVOI	
	Shinozuka2 Shinozuka3					
	JSUM					•
						Set
	Thurnau Warsof					
	Weiner1					•••••
						61
	Lee1					Set
Setup	I tee2					
Close			4			
				COMM	Leol	
				EFW1	Lee1	Se
				3PD		
)FD		
Lee1			1	١C		
Lee2			/	Wol		
					×	-
				CDUD.		-
				EFW2		Se
					(BPD, AC, TVol)	

	Go to [Measure] in the measure setup,
5D Button	Measure setup \rightarrow Measure OB tab \rightarrow
	Fetal Weight → EFW1, EFW2
	Assign 'Leel' or Lee2' EFW table.

- 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.
- This User Quick Guide is based on HERA W10 V1.03.03d
- Disclaimer: Some Images in this content were obtained from other system.

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