- 1.0 How to install JABES Analyzer 3.0
- 1.1 Recommended Installation Environment
 - CPU: 2.0 GHz or higher
 - Deprating System: Window 7, Windows 10, 32- or 64-bit
 - □ Memory: 4GHz or higher
 - □ Hard disk space: 1.0 GB or higher
 - Deripheral devices: Sound card, speakers
- 1.2 How to install
 - Download JABES Analyzer 3.0 installer after connecting to http://ejabes.com
 - □ Run JABES Analyzer 3.0_Seup.exe
 - □ JABES Analyzer 3.0 Install Shield Wizard
 - ✓ Welcome to the JABES Analyzer 3.0 Setup Wizard



✓ Customer Information

🔀 JABES Analyzer 3.0		_		\times
Customer Information			(130	
Enter doctor name and hospital nan information for subsequent installa	ne in the box belo tions.	ow. The installer v	will use thi	s
Doctor Name :				
Jabes				
, <u>H</u> ospital Name : Jabes Hospital				
Enter your serial number below. The installations. For serial number info	installer will us prmation, contact	e this informatior GSTechnology add	n for subse ministrator	quent
XXXXX-XX-XX-	****			
	Cancel	< Back	Nevt	>
	Cancer	- Dack	NEX	-

✓ Confirm Installation

🛃 JABES Analyzer 3.0		-		×
Confirm Installation				AUE I
The installer is ready to install JAB	ES <mark>Analy</mark> zer 3.0 o	n <mark>your c</mark> omputer.		
Click "Next" to start the installation	1.			
	Cancel	< Back	N	ext >

✓ Install Progress

🛃 JABES Analyzer 3.0		-	
Installing JABES Analyzer 3.	0		(1.55°)
JABES Analyzer 3.0 is being install	ed.		
Please wait		_	
4 <u>.</u>			
	Cancel	< Back	Next >

✓ Installation Completed

🛃 JABES Analyzer 3.0		-		×
Installation Complete			(LASS	
JABES Analyzer 3.0 has been success	fully installed.			
Click "Close" to exit.				
Please use Windows Update to chec	k for any critical u	updates to the .N	IET Framew	ork.
	5	5-		
	Cancel	< <u>B</u> ack	<u>C</u> lo	se

- 1.3 Start-up/Environmental composition and Accept the terms and conditions
 - □ JABES Analyzer 3.0 Start Application
 - ✓ Splash Screen



✓ Configuration

JABES Analy	zer Config		23
Custon	ner Information		
(^O)	Hospital code :		• 1
	Hospital name :	Jabes Hospital	2
æ	Doctor id :		3
Ø	Doctor name :	Jabes	•
Server	Information		
	Server url :	http://ejabes.com	
	port :	3300	
	Data upload :	● On ○ Off ●	6
🕸 Langua	ige		
	Language :	● Korean ○ English ●	7
Terms	& Conditions		
	View Terms	Accept the terms and conditions	
	O	Cancel	
	8 9	10	

- 1. Hospital code : Automatically generate
- 2. The name of Hospital: Direct input by user (*Required item)
- 3. Doctor's id : Automatically generate
- 4. Doctor's name : Direct input by user (*Required item)
- 5. Server url, port : Information of Jabes Server
- 6. Data upload on/off : Set up stethoscope's information on JABES server upload
- 7. Language Korean / English : Set up Language
- 8. View Terms : View and accept terms and conditions (*Unable to use without consent)

JABES Analyzer 3.0 Terms & Condition	23
JABES Analyzer 3.0 Terms Conditions	JABES
JABES Analyzer 3.0 Software usage terms and conditions.	
Read these Terms and Conditions before installing the JABES Analyzer Software (hereinafter referred to as the "Software")	/are").
The Terms and Conditions of Use of JABES Analyzer Software (hereinafter referred to as the "Terms of Use") is a legal agreement between GS Technology Co., Ltd. (hereinafter referred to as the "Company") and users. In addition to bein distributed as a CD-ROM, the software includes online services using a wired network, software products included in the service, and all combinations of free, paid versions.	al Ig the
If you press the "accept" button, or if the software is installed, copied or otherwise used, you will be deemed to accept Terms and Conditions. In addition, agreeing to use this software means agreeing to collect sound from patients such heart and respiratory system for data base work for artificial intelligence (AI) diagnosis.	ot the as the
If you do not agree to these terms and conditions, press the "Cancel" button or do not install the software. Installing Software implies that you have read, understood and agreed to the Terms and Conditions.	the
1. Using the Software	
 Software is a software created for the service provider of the software vendor and licensee. Users can install use software on personal computers except for PC at Public place such as home, company, hospital, school 	and I,
government office (not subject to software restriction). You may not use any part or all of the Software for commercialization or for commercial purposes.	
2) You may only use the Software and Documentation in Your use of the Software and Documentation in such a	a manne 🖕
I agree with the terms and condition. I do not agree with the terms and condition. Submit Cancel	

- 9. Submit : Save the configuration of environment and start the JABES Analyzer 3.0
- 10. Cancel : Cancel the configuration of environment (*Exit the installer)

2.0 Screen Configuration of JABES Analyzer 3.0

2.1 Main Screen



- 1. Main Toolbar
- 2. Patient information screen
- 3. Screen showed the results of the stethoscope and examination, to display of test waveform
- 4. List screen referencing waveforms
- 5. Display screen referencing waveforms
- 6. Tools to set up registration information and sound devices

2.2 Toolbars



- 1. Register New Patient / Cancel
- 2. Save Patient Information
- 3. Delete Patient Information
- 4. Search Patient Information

- 5. Settings
- 6. Update the JABES Analyzer
- 7. About the JABES Analyzer
- 8. Help
- 2.3 Patient Information Screen



- 1. Basic information of the patient (name, sex, age)
- 2. Patient Details
- 3. List of examination results
- 4. Current Examination Results
- 5. Delete Examination Results
- ** Clicking on a list of examination results, the examination results are displayed in detail on the right
- 2.4 View results of stethoscope and examination/ Screen displaying the examined waveform





11. Zoom-in waveform horizontally



12. Zoom-out waveform horizontally



- 16. Repeat playback 💭 / Cancel 🛄 Repeat
- 17. Zoom-in waveform vertically / Zoom-out







18. Registration and inquiry of examination results

2.5 Screen with the list of reference waveforms

	No	Origin	Diagnosis	Expliain
	1	Heart	EDM	EDM(Early Diastolic Murmur
۲	2	Heart	ESM	ESM(Early Systolic Murmur)
	3	Heart	AFM	AFM(Austin Flint Murmur)

- 1. List of reference waveforms
- 2. Current Reference Waveform
- 3. Delete Reference Waveforms (* Only user-registered waveforms can be deleted)
- 4. View the description of the reference waveform

(*The user registration waveform displays the results of the duration.)

** ** Clicking on a list of examination results, the examination results are displayed in detail on the right



- 1. Title of reference waveform
- 2. Displaying and Setting up waveforms
- 3. Function to control reference waveform (*Reference to Waveform Control Functions of Examination Results)
- 4. Shrink Waveform to Vertical / Expansion (*Reference to Waveform Functions of Examination Results)

2.7 Tools to set up properties and sound devices



- 4. Adjust audio speaker volume
- 5. Adjust Sound Recorder Volume

- 3.0 Explanation of JABES Analyzer 3.0 functions
- 3.1 Management of Patient Information
 - 1. Register New Patient



2. Input Patient Information

Input
mpar
Select
Automatically generated
Select

3. Save/Cancel Patient Information

	% G 0 0
Patient Manager Save patient information. JABES Analyzer 3.0	
JABES Analyzer 3.0 🛛 🕅 Successfully registered a new patient.	
Patient Manage Cancel new patient JABES Analyzer 3.0	

4. Search Patient Information







JABES Analyze	r 3.	0 - Search	Patient				83
Search I	Pati	ent					
Enter text	t to	search			• F	ind	Clear
Patient No			Name (initial)		YOB	Age	Gender
P0000001	D	avid			2000	18	М
P0000002	Ja	bes			1973	45	М
			Ok] Canco	el		
& David(M,1)	8)						
Patient No	:	P000000	L				
Name (initial)	:	David					
Year of brith	:	2000				▼ Ag	je: 18
Gender	:	 Male 	🔘 Female				

5. Delete Patient information



6. Start a new examination



7. Recording the stethoscope sound / Import patient diagnostic wave file







8. Input of examination results

Sound Division :	HS-Heart	Ŧ	Opinion :	Normal
Sound Point :	H1-Aortic	•		
Diagnosis :	01-Normal	•		

9. Save / Cancel examination results





10. Check-up examination results

	Date	Origin	Diagnosis	Opinion	
	2018-10-13	Heart	Normal	No abnormal findings in stethoscope	
۲	2018-10-13	Breathing	Normal	Normal	H
	2018-10-13	Heart	Normal	Normal Mouse Left Button Click	9



Sound Division :	BS-Breathing	Ŧ	Opinion :	Normal
Sound Point :	B1-RUL anterior thorax	Ŧ		
Diagnosis :	01-Normal	-		

11. Delete Examination Results

-	Date	Origin	Diagnosis	Opinion	
	2018-10-13	Heart	Normal	No abnormal findings in stethoscope	
	2018-10-13	Breathing	Normal	Normal	
۲	2018-10-13	Heart	Normal	Normal	

3.2 Manage reference waveforms

1. Register User's waveform







Normal		23
Reference Wave Explain	h 🕅	JABES
		<u>^</u>
- Patient information : arg 18, gender Male		
- Date of visit : 2018-11-14 19:17:37		
- Sound Division : Heart		
- Sound Point : Atrioventricular		
- Diagnosis : Systolic murmur		
- Opinion : Normal		
		Ψ
Close		

2. View Reference Waveform



3. View the description of the reference waveform

	No	Origin	Diagnosis	Expliain
	1	Heart	EDM	EDM(Early Diastolic Murmur)
۲	2	Heart	ESM	ESM(Early Systolic Murmur)
	3	Heart	AFM	AFM(Austin Flint Murmur)
	4	Breathing	Normal	Normal
	4	Breathing	Normal	Normal
Û	ш			

Continuous Murmur	23
Reference Wave Explain	JABES
- Type : Continuous Murmur	Â
- Related Disease(s) :	
PDA(Patent Ductus Arteriosus) : Child	
- Comment : This heart murmur begins with the S1 sound and continues through the S2 sound back to the S1 sound.	the next
- PDA(Patent Ductus Arteriosus)	
Definition :	
PDA is the persistence of a normal fetal structure between the left pulmonary artery and the descending a Persistence of this fetal structure beyond 10 days of life is considered abnormal.	aorta.
Pathophysiology :	
This abnormality is variable in its presentation. PDA is the fifth or sixth most common congenital cardiac ofen is associated with other intracardiac structural defects.	defect. It
Stethoscope regin :	
The Pulmonary area is the optimum region for hearing this sound.	U +
Close	

4. Delete Reference Waveform

	No	Origin	Diagnosis	Expliain
	1	Heart	EDM	EDM(Early Diastolic Murmur)
	2	Heart	ESM	ESM(Early Systolic Murmur)
	3	Heart	AFM	AFM(Austin Flint Murmur)
۲	4	Breathing	Normal	Normal
		C	Only dele	ete user Waveform
Û				

1. Monitoring / Stop



2. Record / Stop



>

14s 15s

3. Play / Pause

W

-1 <

15

₩ \$ *

2s

3s

cis

4s

5s

6s

8s

C,)

7s

 \triangleright

9s

10s

115

12s

13s



4. Zoom-in waveform (to Time) horizontally / Zoom-out



4s 5s 6s 7s 8s 9s 10s 11s 12s 13s 14s 15s 16s 17s 18s 19s 20s 21s 22s 23s 24s

C)

 \triangleright

Q



c.s

-1 <

15

N

2s 3s

 $\leftarrow \uparrow \rightarrow$



6. Select / cancel playback interval



7. Set repeat play on/ off





>

8. Clean up the waveform screen





9. Print waveform





10. Set recording time



JABES Analyzer	3.0 Setting	23
Recording	Time	
₽	 ○ 10 Second ○ 15 Second ○ 30 Second ○ 60 Second(max) ○ 0 thers ○ 60 \$	
	Ok Cancel	

11. Set-up the system sound



🔮 Sound 🛛 🕹	A Microphone Properties	\times
Playback Recording Sounds Communications	General Listen Levels Advanced	
Select a recording device below to modify its settings: Microphone High Definition Audio Not plugged in Microphone High Definition Audio Default Device Line input High Definition Audio Not plugged in	Microphone 100 ()) Microphone amplification +30.0 dB	
Configure Set Default V Properties	OK Cancel Ap	ply

Please use "Recording \rightarrow Microphone \rightarrow Properties \rightarrow Levels \rightarrow Microphone amplification" so that the sound waveform is properly displayed.

- 3.4 Other functions
 - 1. Configuring the environment



Custor	mer Information		\bigcirc		
c O 0	Hospital code :	H0000008	$-(\gamma)$		
	Hospital name :	Oscar Hospital			
æ	Doctor id :	D00002	1) Ho	spital name : editable	
9	Doctor name :	Doctor Albert	2) Do	ctor name : editable	
E Sonio	Information		3) Da	ta upload : on/off	
- Server	Capitar und a	http://sishes.com	4) Lai	nguage : Korean / English	
. E	Server un :	http://ejabes.com	5) Vie	w Terms	
1.0	port :	3300			
	Data upload :	On Off			
Languag	le				
₽`⊾	Language :	🔿 Korean 💿 English			
Terms	& Conditions				
	View Terms	Accept the terms an	d conditions		
	0	k Cancel			
date of JA	BES Analyzer 3.	0			
8 8	°a ?× ?∞			28 🔂 🛛 🚱	
JABES Application Application Update					
ABES Anal	yzer 3.0	X			





- 77	Please w	aiteUpdate downloading.		
	Update	Files		
	1.0.0.1	Jabes Analyzer 3.0 Terms & Condition_ko	100%	2018-10-28
ATONIC STOP	1.0.0.1	JABES Analyzer.exe	43%	2018-10-28
ABES	1.0.0.1	056.wav	0%	2018-10-28
		Download	ancel	

	JABES Updat	S Analyzer 3.0 Update e ready		Version 1.0.0.0
and the stand of the stand	1.0.0.1 1.0.0.1 1.0.0.1	Jabes Analyzer 3.0 Terms & Condition_ko JABES Analyzer.exe 056.wav	100% 100% 100%	2018-10-28 2018-10-28 2018-10-28
AN ARD		Update	Cancel	





