

VitalJacket® SDK

VitalJacket SDK v1.0.07 – InfoExporter.exe application



LEGAL NOTICE AND DISCLAIMER

OCTOX8

ATENTION: Although VitalJacket is a certified medical device, its developer version is NOT certified for diagnosis usage. It is intended for R&D and development purposes only. Users of VJ SDK can submit their final developments to medical certification. All contents of our product are compliant with the European Medical Device directive 93/42/EEC but, being a developer's version, it's not certified.





Content

Introduction	
Features InfoExporter application	5
References	
Control versions	C





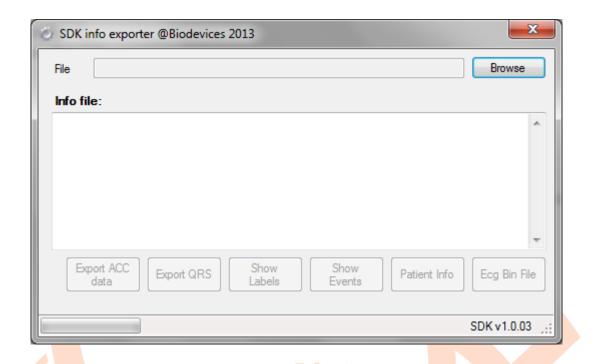
Introduction

VitalJacket © is a wearable system with real time ECG acquisition that can be transmitted online or stored for posterior analyses. The ECG signal is send in real time to a online module using Bluetooth (wireless) or stored in a memory card. This data can be accessed through VitalJacket SDK package.



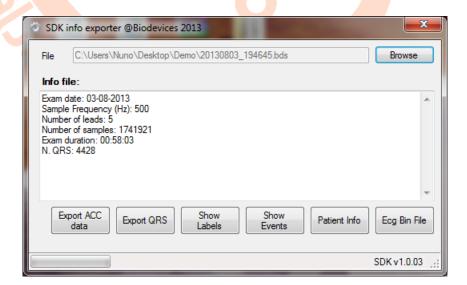


Features InfoExporter application



This manual describes the functionality of the InfoExporter application.

1. Select BDS or BDH file to open;



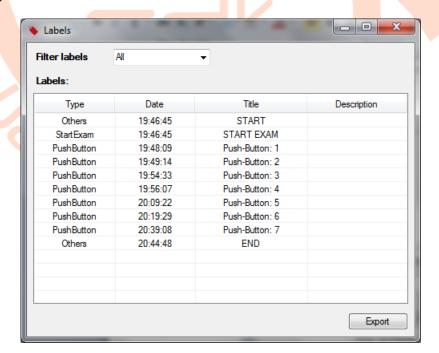
 $_{
m Page}$



2. If exam was analyzed, it is possible export QRS:

1	А	В	С	D	Е
1	Position [samples offset]	Туре	R-R (ms)	HR (Bpm)	
2	3960	NORMAL	7920	0	
3	4297	NORMAL	674	0	
4	4659	NORMAL	724	82	
5	5029	NORMAL	740	81	
6	5396	NORMAL	734	81	
7	5763	NORMAL	734	81	
8	6121	NORMAL	716	83	
9	6467	NORMAL	692	86	
10	6809	NORMAL	684	87	
11	7153	NORMAL	688	87	
12	7498	NORMAL	690	86	
13	7836	NORMAL	676	88	
14	8165	NORMAL	658	91	
15	8494	NORMAL	658	91	
16	8818	NORMAL	648	92	
17	9139	NORMAL	642	93	
18	9480	NORMAL	682	87	
19	9873	NORMAL	786	76	

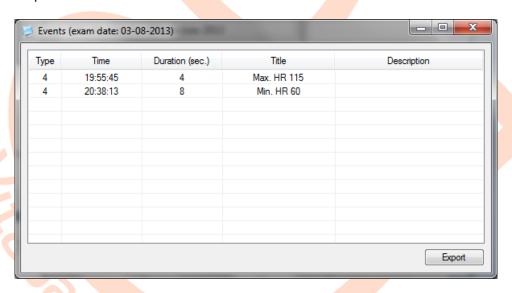
3. Export labels in exam:





1	Α	В	С	D	Е	F	G
1	Position [offset samples]	Туре	Date [DD-MM-YYYY]	Time [HH:MM:SS]	Title	Description	
2	0	Others	03-08-2013	19:46:45	START		
3	0	StartExam	03-08-2013	19:46:45	START EXAM		
4	42000	PushButton	03-08-2013	19:48:09	Push-Button: 1		
5	74500	PushButton	03-08-2013	19:49:14	Push-Button: 2		
6	234100	PushButton	03-08-2013	19:54:33	Push-Button: 3		
7	281250	PushButton	03-08-2013	19:56:07	Push-Button: 4		
8	678700	PushButton	03-08-2013	20:09:22	Push-Button: 5		
9	982350	PushButton	03-08-2013	20:19:29	Push-Button: 6		
10	1571800	PushButton	03-08-2013	20:39:08	Push-Button: 7		
11	1741921	Others	03-08-2013	20:44:48	END		
12							

4. Export events in exam:



5. To convert ECG raw data to binary format press "ECG Bin File" button.

www.sdk.vitaljacket.com



References

- [1] Pan J and Tompkins WJ. A Real-Time QRS Detection Algorithm. IEEE Transactions on Biomedical Engineering 32(3):230-236, 1985
- [2] MIT-BIH Arrhythmia Database: http://www.physionet.org/physiobank/database/mitdb/







Version	Date	Change log
1.0.02	30-04-2013	Get device ID
		Send radio event to device
1.0.03 19-07-2013	New method to send radio-event to device	
		A new too l(InfoExporter.exe) for export data
		to Excel and Matlab

www.sdk.vitaljacket.com