



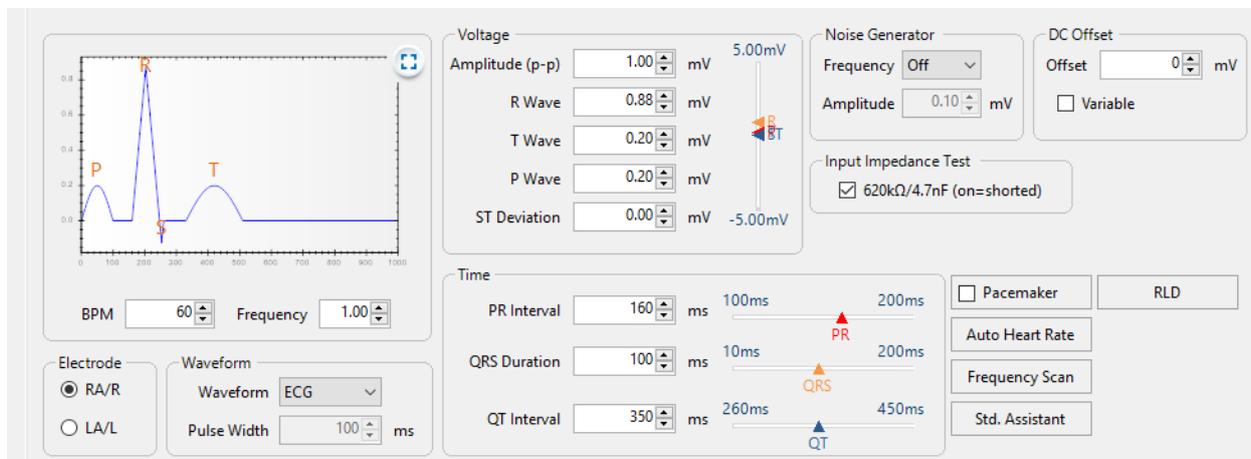
Increase Your Vital Signs Wearables' Accuracy and Consistency with WhaleTeq AECG100

~The first PWTT Tester in the world~



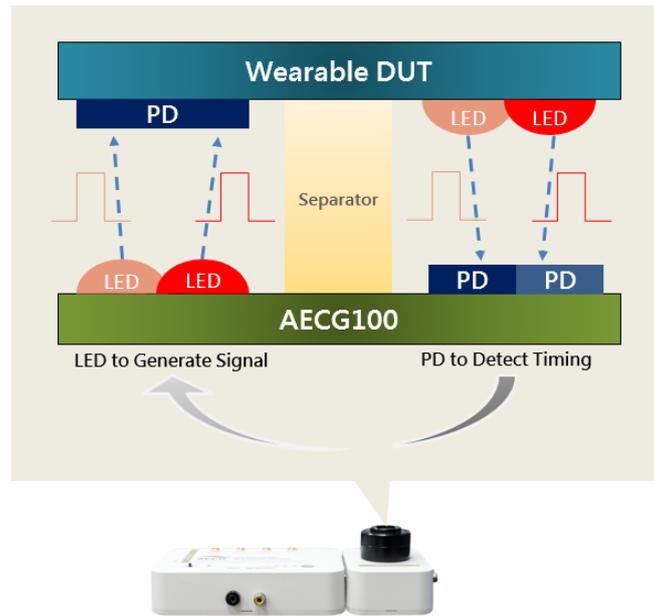
With the growing demand of using wearables to detect and collect vital signs, the accuracy of collected vital sign becomes critical for wearable devices. WhaleTeq introduces AECG100, the innovative multifunction tester which is capable of conducting ECG/EKG performance tests, PPG heart rate accuracy tests and PWTT tests.

The AECG100 equips with excellent shielding design which allows accurate and low-noise ECG/EKG signal output. Also, AECG100 offers a wide range of test parameters which are compliant with medical standards of IEC 60601-2-47 and China YY 0885. Users just need to click to output preferred ECG/EKG signal and finished required test!



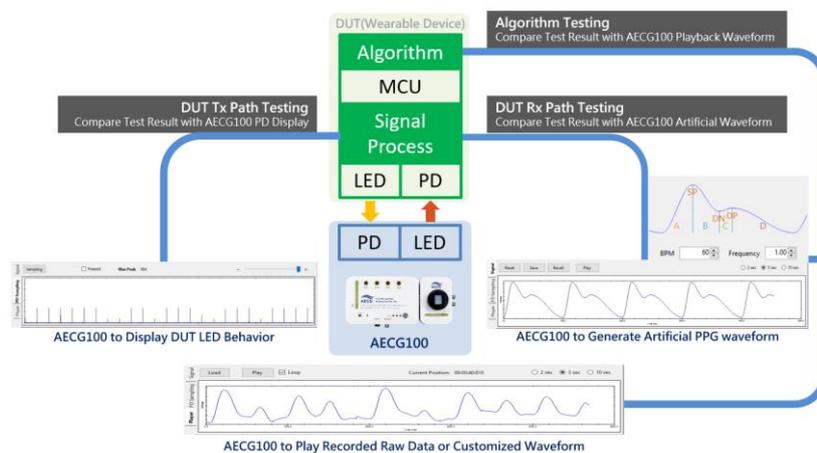
AECG100 ECG/EKG Test Mode - Software UI

When it comes to PPG heart rate accuracy test, AECG100 uses LED and photodiode to simulate the reflection of different skin tones. Once AECG100 built-in photodiode detects optical signal from wearable, AECG100 controls built-in LED to send optical signal with assigned parameters to DUT, so that DUT can receive and determine the heart rate.



AECG100 PPG Test Theory

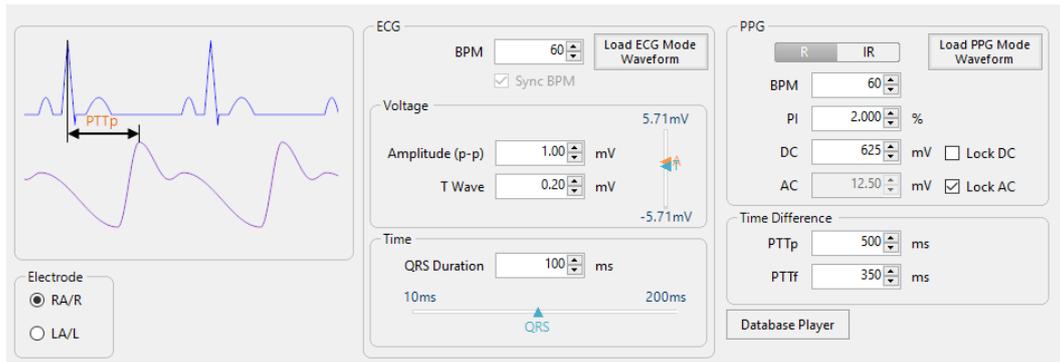
In short, AECG100 not only can help you verify PPG sensor functionalities in Tx/Rx signal processing paths, but also it can assist to test DUT's algorithm via sending optical signals of recorded or programmed raw data to DUT to ensure the algorithm can handle all kinds of extreme waveforms. Overall, it's the industry-leading test tool to test PPG heart rate accuracy of wearable devices.



AECG100 PPG Test Mode – System Structure



On top of accurate ECG and PPG signal output, the AECG100 can also simultaneously output ECG and PPG signals. AECG100 is capable of controlling the time difference between ECG and PPG signals called Pulse Wave Transit Time (PWTT) and the major parameters are PTTp and PTTf. Same with other test modes, user can simply click to adjust to the required waveform and AECG100 would immediately output without any doubts.



AECG100 PWTT Test Mode – Software UI

ECG and PPG PWTT Testing:

<https://www.whaleteq.com/en/Products/Detail/31/AECG100#tag=proOverview>

More PPG Optical Testers

<https://www.whaleteq.com/en/Products/Category/2/Wearable%20Device%20Testing>

About WhaleTeq Co., Ltd

Established by a team of experts specialized in test equipment and medical certification, WHALETEQ strives to offer simple, accurate, and compliant test solutions. Our value is to help customers save labor time, increase design quality, and launch the medical device to the market in time.

For more information please visit www.whaleteq.com

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